

INTERNATIONAL

R

**PRODUCT CATALOGUE
INTERNATIONAL MARKETS**

2021



Autonomous residential | Centralized residential | Service Industry | Industrial Process

March **2021**

F. RIELLO
OFFICINA MECCANICA = LEGNANO PORTO

1922



RIELLO

**RIELLO
ISOTHERMO**



RIELLO

**RIELLO
BURNERS**

2021

RIELLO

RIELLO

RIELLO is the Italian leading brand in the production of systems and technologies for heating and air conditioning of all domestic and professional spaces.

ENVIRONMENT AND WELL-BEING

RIELLO 4 GREEN

RIELLO EMBRACES AN ALL-ROUND CONCEPT OF WELL-BEING, TRANSLATING IT INTO AN ECO-PHILOSOPHY BASED ON GOOD BUSINESS PRACTICES AND CORPORATE GOVERNANCE STRONGLY FOCUSED ON INNOVATION.



TECHNOLOGY
ECO-FRIENDLY



ENERGY SAVING



ECO-SUSTAINABILITY



WELL-BEING
& ENVIRONMENT

If the future seems like a distant mirage to most of us, it is necessary to make it achievable day by day. A modern company cannot ignore the imminent problems that characterise the world that surrounds it and in which, above all, it produces.

It is now an obligation to no longer think strictly in terms of profits and balance sheets, but to look at a broader and more comprehensive horizon.

With the aim of significantly applying sustainability

practices and optimising the management of these aspects within the group, Riello involves every area, from top management to workers in factories and offices around the world.

The strategies that Riello has implemented to support this vision can be focused on two fronts:

01



related to production, product characteristics and their design

In short, energy efficiency and awareness. Riello is aware of the role that a brand may and must play in consumer habits. Precisely for this reason, it is the bearer of an efficient use of resources and a careful product design. This translates into an increasingly green philosophy, with efficient integration of different energies and development of technologies that allow reducing consumption. IOT is the case in point of this. The modernisation of devices and their

02



related to the environment where these projects take shape, i.e. the company itself

closer control by customers, even remotely, are the key tools for wide-ranging savings. The result? An economic benefit for the consumer, but above all for the ecosystem.

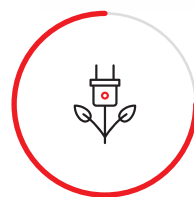
Because active responsibility must be shared responsibility.

NO LIMITS

SHAPING THE FUTURE

Every Riello product is a world. You will find in it the summary of our present and the vision of a better future.

What has made our company a world leader in the industry is its ability to anticipate the needs of the future and accelerate the pace towards a definitive transition to sustainable energy use. The resulting competitive ability is the market value that makes Riello a marketable and recognizable brand worldwide.

**TECHNOLOGY****SUSTAINABILITY****WINNING INDUSTRIAL
STRATEGIES****USE OF
RENEWABLE
ENERGY****ACCESSION TO
INTERNATIONAL
REGULATIONS**

PROFESSIONAL GROWTH AND DEVELOPMENT

TRAINING



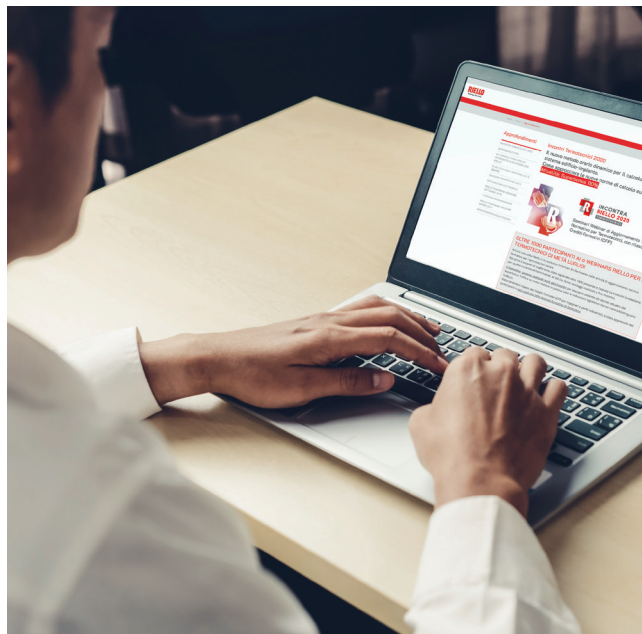
FOR RIELLO, TRAINING IS ONE OF ITS STRENGTHS, AND HAS ALWAYS BEEN AN INTEGRAL PART OF ITS BUSINESS AND A DISTINCTIVE ELEMENT RECOGNIZED BY THE MARKET FOR ITS CONSISTENCY AND COHERENCE.



The attention of the company has always been aimed at transferring its expertise, with a continuous training process, both to employees and market operators. An activity that stands out through technical refresher meetings and the creation of specific courses aimed at the professional growth of Riello stakeholders. **Professionalism, expertise and reliability are daily put at the disposal of the industry in order to favour the complete knowledge of products and plant engineering solutions of the latest generation.**

For Riello, training also means knowing the

evolution of regulations and being able to interpret their derivation in advance. The company pre-sales and training structure is ready to offer constant support and the best refresher courses to its customers, tools that are today essential to face a rapidly changing market. The Angiari centre is a tangible example of the importance of training for Riello. Consisting of classrooms and equipped laboratories, it provides theoretical and practical training, using the state-of-the-art learning systems.



REMOTELY, NOT REMOTE

WEBINARS

A BUSY SCHEDULE OF VIRTUAL MEETINGS TO KEEP UP TO DATE WITH REGULATORY DEVELOPMENTS AND TO LEARN ABOUT SOME OF RIELLO'S MOST INNOVATIVE SOLUTIONS. FOR BOTH INSTALLERS AND DESIGNERS.



To ensure attention to the constant reconsideration of everyday life and to guarantee the company proximity to Italian professionals, Riello has activated a training path in **#smartworking** mode via the Internet.

In fact, it is possible to follow each of the courses in this rich agenda of training online appointments for free.

UNDERSTANDING REGULATIONS

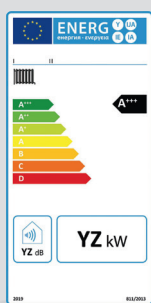
A NEW WAY OF GUIDING THE CONSUMER

The path guiding the market towards the use of increasingly efficient equipment did not end with the implementation of the obligations introduced in 2015, 2017 and January 2018, with the implementation of more restrictive minimum requirements, both in terms of energy classes and efficiency.

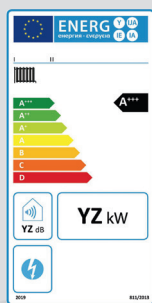
In fact, in September 2018, additional nitrogen oxides (NOx) emission limits were introduced for generators.

RIELLO, FOLLOWING THE DEVELOPMENT OF REGULATIONS WITH ITS OWN TECHNICIANS FROM THEIR ORIGIN, GUARANTEES A RANGE OF PRODUCTS CAPABLE OF BEING AT THE TOP OF THE ENERGY CLASSES, WITH VERY LOW EMISSIONS.

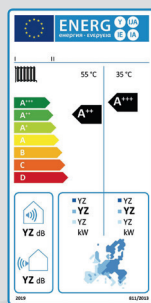
RIELLO AND ITS SALES STRUCTURES ARE THE BEST PARTNER WITH WHOM TO PREPARE FOR THE IMPLEMENTATION OF NEW REGULATORY REQUIREMENTS.



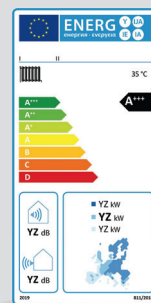
[1]



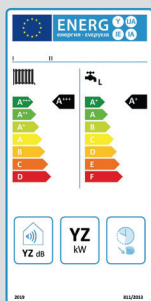
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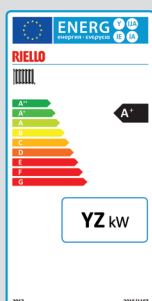
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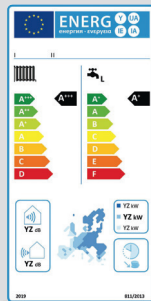
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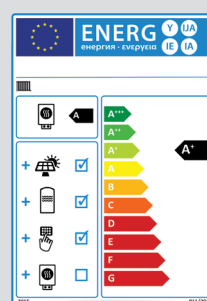
[5]



[6]



[7]



[8]

- [1] Label for space heating boilers
- [2] Label for combined heat and power appliances for space heating
- [3] Label for heat pump space heating appliances
- [4] Label for low-temperature heat pump space heating appliances
- [5] Label for hybrid boilers
- [6] Label for solid fuel boilers
- [7] Label for hybrid heat pump appliances
- [8] System label

RIELLO HIGH TECHNOLOGY

SERVICES FOR BURNERS

Riello has developed a wide range of services that will allow customers to take advantage of specialised technical support at every stage of their business, starting from product installation and throughout the system working life.

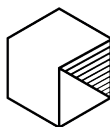
One common goal: a constant performance over time, maximizing energy efficiency and minimizing environmental impact, for the entire life cycle of the product.

- installation advice
- commissioning and adjustment
- performance check
- O₂ check
- regular maintenance
- intervention on request
- maintenance and repair plan
- commissioning, adjustment and initial regular maintenance package



BEYOND THEIR APPLICATION

PRODUCT ENGINEERING



archiproducts[®]

DESIGN AWARDS

—
WINNER 2020

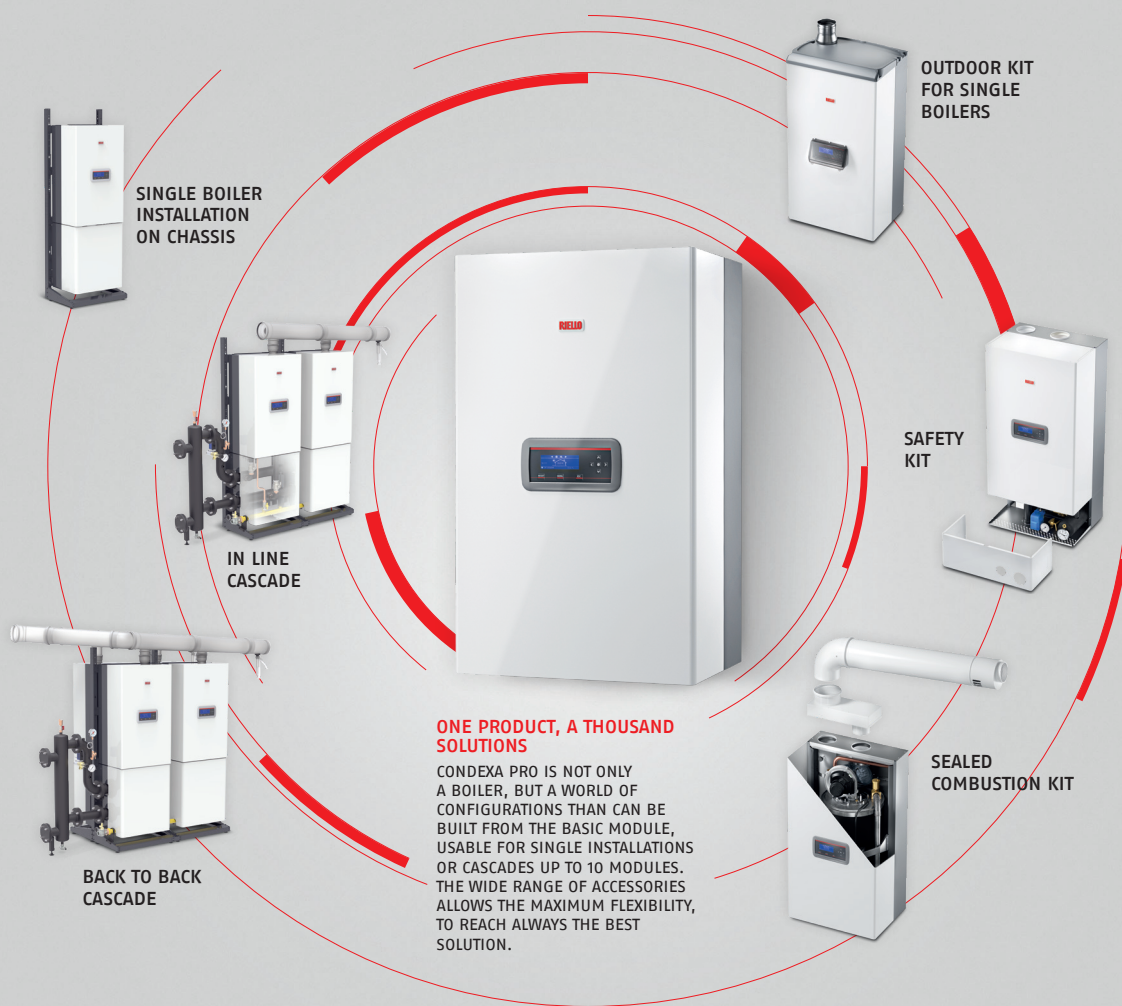


This is the engineering hidden inside Riello. Matter and innovation are the two pillars that underpin efficiency, performance, ease of use and reliability of every Riello solution. A DNA dedicated to the research and development of solutions suitable

for functional and constructive optimization of each device. An example? Riello, with TAU N, is the first brand to offer high water content condensing boilers capable of reaching 2.6 MW!

CONDEXA PRO

EXCELLENCE AND FLEXIBILITY IN THE HEATING ROOM



HIGH EFFICIENCY	PATENTED STAINLESS STEEL HEAT EXCHANGER	CLASS 6 NOx	MAXIMUM MODULARITY	ADVANCED ELECTRONICS	SINGLE BOILER OUTDOOR INSTALLATION	CONFIGURATION SOFTWARE

A-Z INDEX

- 191 7000 ACI PLUS
- 189 7000 PUFFER
- 177 7200/2 HV PLUS
- 177 7200/3F HV PLUS
- 183 7200 HP
- 187 7200 KOMBI PLUS
- 185 7200 KOMBISOLAR²⁵
- 181 7200 V PRIME
- 353 AARIA MONO PLUS-AMC
- 357 AARIA MONO PLUS-AMD
- 355 AARIA MONO PLUS-AMK
- 352 AARIA MONO PLUS-AMS
- 350 AARIA MONO PLUS-AMW
- 360 AARIA MULTI PLUS
- 363 AARIA ONE INVERTER
- 371 AARIA PRO P-AMD
- 369 AARIA PRO P-AMK
- 367 AARIA PRO P-AMS
- 366 AARIA PRO P-AMW
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- 238 ALU PRO POWER
- 128 ATR
- 105 BAG³
- 104 BAG³ HYBRID
- 416 CHRONORIELLO
- 208 CONDEXA PRO
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- 156 CSAL 25 RN SYSTEM
- 165 CSAL 25 RS
- 158 CSNA 20 RS SYSTEM
- 169 CSV R
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- 384 DESIGN INVERTER PLUS
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- 54 DOMUS ES SOLAR
- 33 DOMUS HYBRID
- 37 DOMUS HYBRID SOLAR
- 74 FAMILY
- 77 FAMILY AQUA CONDENS
- 46 FAMILY ES
- 90 FAMILY EXTERNA CONDENS
- 100 FASTECH
- 403 FCU N
- 337 FLUE OPTION FOR CHIMNEYS CONDENSING
- 108 FLUE OPTION FOR CONDENSING
- 332 FLUE OPTION FOR CONDENSING
- 146 FLUE OPTION FOR STANDAR EFFICIENCY
- 133 GITRÈ
- 428 GP CONDENS
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- 398 IN INVERTER PLUS
- 124 INSIEME EVO COND
- 274 INSIEME EVO COND
- 130 INSIEME EVOE
- 392 INVISIBLE INVERTER
- 395 INVISIBLE INVERTER PLUS
- 138 NEXAQUA
- 61 NEXPOLAR 004÷015
- 63 NEXPOLAR 017-022
- 139 NEXPRO 300 PLUS
- 408 NUOVO ACU-NUOVO ACU F
- 374 NXC 017÷040
- 375 NXC 044÷164
- 59 NXH 005÷015
- 65 NXH 026÷040
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- 179 RBC 1S
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- 144 RIELLO MINI EVO EXT LN
- 143 RIELLO MINI LN
- 172 RIELLO RBS 2S READY-I
- 197 RIELLO SC ACS
- 197 RIELLO SC SUN
- 326 RIELLOTECH CLIMA COMFORT
- 326 RIELLOTECH CLIMA MIX
- 328 RIELLOTECH PRIME
- 328 RIELLOTECH PRIME ACS
- 401 RK N HYDROLINE
- 162 RPS 25/4
- 152 RPS 25/4 SYSTEM
- 194 RSS & EVOSOL
- 296 RTG
- 307 RTQ 2S
- 300 RTQ 3S
- 288 RTS 2S
- 280 RTS 3S
- 322 RTT
- 202 SOLAR THERMAL ACCESSORIES
- 98 START
- 84 START AQUA CONDENS
- 86 START AR
- 88 START AR
- 82 START CONDENS
- 96 START LN
- 224 STEEL PRO POWER
- 196 SUN PRO
- 264 TAU N
- 276 TAU N OIL PRO
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50 DOMUS ES

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61 NEXPOLAR 004÷015

63 NEXPOLAR 017-022

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INDOOR

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77 FAMILY AQUA CONDENS

79 RESIDENCE

82 START CONDENS

84 START AQUA CONDENS

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88 START AR

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90 FAMILY EXTERNA CONDENS

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HYBRID SYSTEMS



HYBRID
SYSTEMS

HEAT PUMPS



HEAT PUMPS

WALL-HUNG BOILERS



WALL-HUNG
BOILERS

FLOOR-STANDING BOILERS



FLOOR-STANDING
BOILERS

WATER-HEATERS



WATER-HEATERS

SOLAR THERMAL AND CYLINDERS



SOLAR THERMAL
AND CYLINDERS

CENTRALIZED HEATING



CENTRALIZED
HEATING

AIR CONDITIONING



AIR
CONDITIONING

TERMINAL UNITS



TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS



SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR GENERATORS



HOT AIR
GENERATORS



HYBRID SYSTEMS



HYBRID SYSTEMS

19



HYBRID SYSTEMS

WALL-HUNG SOLUTION

FLOOR-STANDING SOLUTION

COMBINED BOILERS

INDOOR/OUTDOOR



HYBRID WALL SYSTEMS
 FAMILY 25-30-35 KIS
 RESIDENCE 25-30-35 KIS
 RESIDENCE HYBRID 25-32 KIS

NEW

page 20

RECESSED INSTALLATION



HYBRID WALL SYSTEMS
 FAMILY 25-30-35 KIS
 RESIDENCE 25-30-35 KIS
 RESIDENCE IN HYBRID 25-32 KIS

NEW

page 20

HEATING ONLY BOILERS

INDOOR/OUTDOOR



HYBRID WALL SYSTEMS
 FAMILY 25-35 IS
 RESIDENCE 20-35 IS

NEW

page 20

RECESSED INSTALLATION



HYBRID WALL SYSTEMS
 RESIDENCE IN HYBRID 25 IS

NEW

page 20

BOILERS WITH HEATER



DOMUS HYBRID
 DOMUS HYBRID 25 B/200
 DOMUS HYBRID 35 B/200

NEW

page 33



DOMUS HYBRID SOLAR
 DOMUS HYBRID 35 B/200 SOLAR

NEW

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HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Hybrid system-Wall-hung solutions

Hybrid wall systems NEW



- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, solar thermal and heat pump
- Large display for setting and monitoring the entire system

A wall-hung hybrid system is a multi-energy hybrid system for heating, summer cooling and domestic hot water production. This system is manufactured by combining three main components together:

- The wall-hung boiler: depending on the installation needs, the choice of the gas generator can be made among boilers from 25 to 35kW, heating only or combined boilers, for wall-hung (indoor or outdoor in partially protected places) or built-in installation. The boilers have a modulation ratio of 1:5 or 1:8, depending on the model, and are all equipped with high-efficiency circulators. The system control panel is able to activate the most energy efficient heat source based on climatic conditions, and to manage the system with up to 2 independent hot/cold temperature zones.
- The heat pump: monobloc air-water outdoor type of the NXH 005÷015 series, used for heating, cooling and pre-heating of domestic hot water for domestic use if a DHW heater is present. NXH 005÷015, specific for hybrid systems, is able to communicate with the system intelligence via bus, and is available with 5, 7, 11 and 15 kW power ratings.
- The hydraulic distribution module: the choice can be made between the simple Hbox hydraulic node, and the more flexible BAG³ Hybrid distribution module. Hbox allows you to make a simple hydraulic connection between the two generators, creating a one-way system in which the boiler pumps and the heat pump supply the system. For more complex systems, the BAG³ Hybrid distribution module is available: for indoor recessed or wall-hung installations, or for outdoor recessed installations, in 1-direct, 2-direct or 1-direct and 1-mixed configurations, equipped with low consumption self-modulating circulators (EEL≤0.20). The distribution module also works as hydraulic separator between the generators and the system circuits. The system is set up for connection to a single-coil domestic hot water heater served by heat pump, or to a dual-coil domestic hot water heater served by heat pump and solar thermal system, by installing the diverting valve kit.
- The system is able to interface with a photovoltaic system in order to change its energy strategy and promote the use of the electric source in self-production condition.



BOILER



HEAT PUMP

HYBRID DISTRIBUTION
MODULE




























SOLAR PANEL



HYBRID SYSTEM

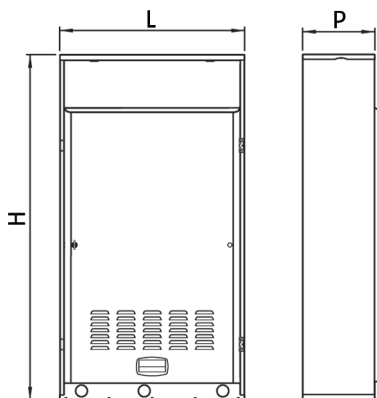
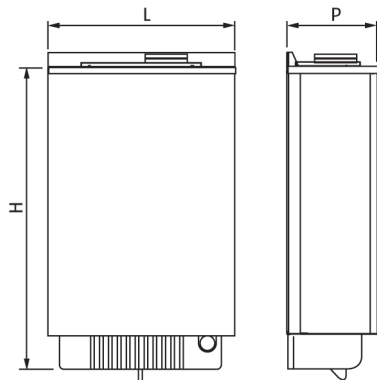
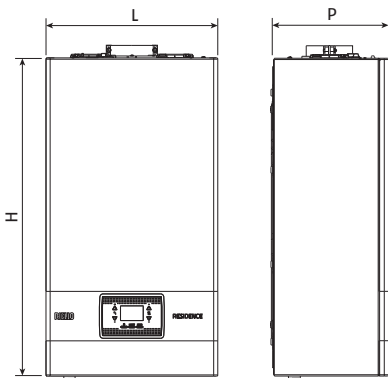
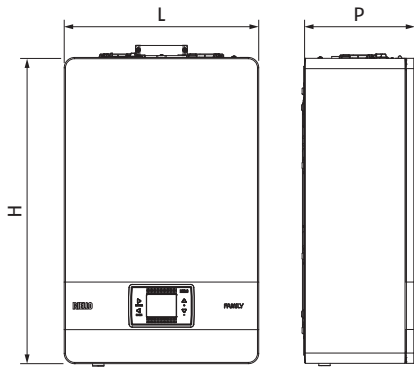
WALL-HUNG BOILERS

TECHNICAL DATA

Description	Heat output Heating/Domestic Water min-max kW	Working efficiency		Domestic water production $\Delta T 25^\circ$ l/min	Energy efficiency class		Notes	Code
		Pn (50°/30°C) %	30% Pn (rit. 30 °C) %					
COMBINED VERSION OF HEATING AND INSTANT SANITARY WATER								
FAMILY 25 KIS	3,6÷20,0/3,6÷25,0	106,2	108,4	15,1			(1)(2)	20133714
FAMILY 30 KIS	4,9÷25,0/4,9÷30,0	106,0	108,1	18,1			(1)(2)	20142573
FAMILY 35 KIS	4,9÷30,0/4,9÷34,6	106,9	108,0	20,8			(1)(2)	20133716
RESIDENCE 25 KIS	3,6÷20,0/3,6÷25,0	106,2	108,4	15,1			(1)(2)	20139525
RESIDENCE 30 KIS	4,9÷25,0/4,9÷30,0	106,0	108,1	18,1			(1)(2)	20148496
RESIDENCE 35 KIS	4,9÷30,0/4,9÷34,6	106,9	108,2	20,8			(1)(2)	20139527
RESIDENCE HYBRID 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3			(3)	20130398
RESIDENCE HYBRID 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3			(3)	20130399
RESIDENCE IN HYBRID 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3			(3)	20118748
RESIDENCE IN HYBRID 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3			(3)	20118749
HEATING ONLY VERSION								
FAMILY 25 IS	3,6÷20,0/3,6÷25,0	106,2	108,4	-		-	(1)(2)	20133715
FAMILY 35 IS	4,9÷30,0/4,9÷34,6	106,9	108,0	-		-	(1)(2)	20133717
RESIDENCE 20 IS	3,6÷20,0/3,6÷20,0	106,2	108,4	-		-	(1)(2)	20139526
RESIDENCE 35 IS	4,9÷30,0/4,9÷34,6	106,9	108,2	-		-	(1)(2)	20139528
RESIDENCE IN HYBRID 25 IS	3,1÷20,0/3,1÷25,0	105,0	110,0	-		-	(3)	20135128
RECESSED INSTALLATION UNIT								
RECESSED UNIT M							(4)	20082310

- (1) The external probe is not included in the boiler supply, but is available as accessory with code 1220559.
- (2) A wall-hung hybrid system requires the replacement of boiler display with code 20124352.
- (3) The boiler code includes hybrid system control panel and external probe.
- (4) To be used for Family 25 KIS, Residence 25 KIS and Residence In Hybrid.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	39
FAMILY 35 KIS	740	470	350	39
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

Height including SRD device: 822 mm

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36


Height including SRD device: 822 mm

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE HYBRID 25 KIS	872	553	275	44
RESIDENCE HYBRID 32 KIS	872	553	275	46

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE IN HYBRID 25 KIS	785	553	268	42
RESIDENCE IN HYBRID 32 KIS	785	553	268	43
RESIDENCE IN HYBRID 25 IS	785	553	268	40
M RECESSED UNIT	1223	654	281	21

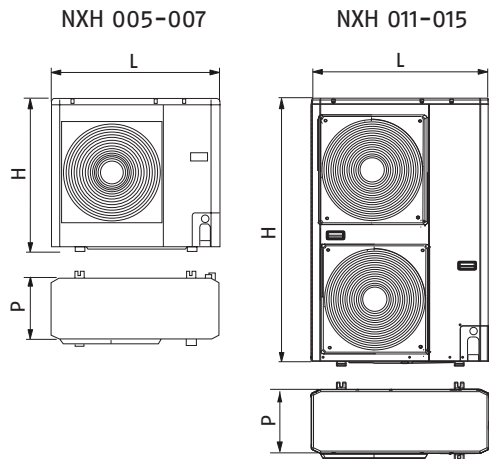
MATCHING HEAT PUMPS

TECHNICAL DATA

Description	Heating				Cooling				Power supply V/Ph/Hz	Energy efficiency class (5) 	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
MONOBLOC AIR - WATER	NEW										
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
 (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

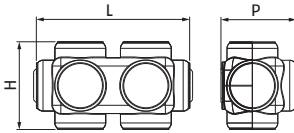
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

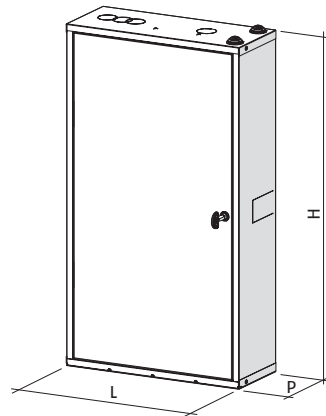
Description	Zone management	Electrical power supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
DISTRIBUTION MODULES WITHOUT SEPARATOR NEW					
HBOX - 1D HYBRID DISTRIBUTION MODULE	1 direct zone	-	-	(1)	20165227
DISTRIBUTION MODULES WITH SEPARATOR					
BAG³ HYBRID 1D	1 direct zone	230/1/50	57	(2)(5)	20130805
BAG³ HYBRID 2D	2 direct zone	230/1/50	114	(2)(5)	20130806
BAG³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(3)(5)	20130807
BUILT-IN BOX	-	-	-	(4)	20130808

- (1) Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.
 (2) Equipped as standard with limit thermostat for low temperature systems.
 (3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
 (4) Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.
 (5) Supplied without built-in box.

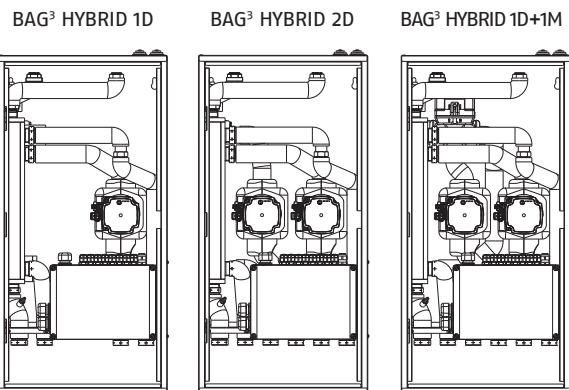
OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
HBOX - 1D HYBRID DISTRIBUTION MODULE	107	187	92	0,9



Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	17
BAG³ HYBRID 2D	797	400	160	18
BAG³ HYBRID 1D+1M	797	400	160	18
BUILT-IN BOX	797	400	160	8



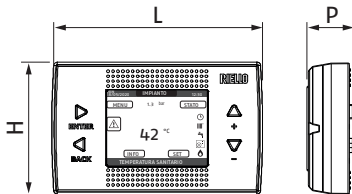
REC10H MANAGEMENT CONTROL

TECHNICAL DATA

Description	Electrical power supply V/Ph/Hz	Notes	Code
REC10H MANAGEMENT CONTROL	230/1/50	(1)	20124352

(1) Already included in Residence Hybrid and Residence In Hybrid.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
REC10H MANAGEMENT CONTROL	90	146	32	0,15

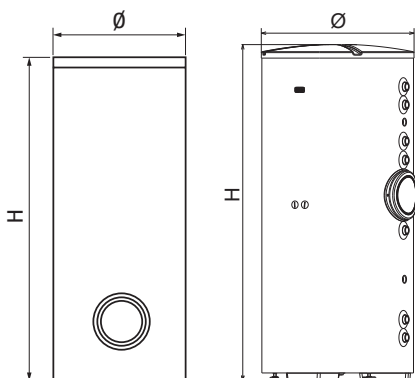
MATCHING SANITARY TANKS

TECHNICAL DATA

Description	Usable volume l	Lower coil exchange surface (m²)	Upper coil exchange power (kW)*	Maximum temperature °C	Maximum pressure bar	Dispersions W	Energy class	Notes	Code
RBC 200 1S	207	1,38		99	10	58	B	(1)	20124168
RBC 300 1S	305	1,7		99	10	68	B	(1)	20124169
RBS 200 2S	208	0,7	16,1	99	10	62	B	(2)	20116675
RBS 300 2S	301	1,0	23	99	10	69	B	(2)	20116335
7200 300 HP	263	3,7	-	99	6	85	C	(1)	4383500

* With $\Delta t = 20^\circ\text{C}$ and primary temperature of 80°C .
 (1) Single-coil heater for heat pump.
 (2) Double-coil solar heater.

OVERALL DIMENSIONS



Description	H mm	Ø mm	Net weight kg
RBC 200 1S	1338	604	78
RBC 300 1S	1838	604	103
RBS 200 2S	1338	604	86
RBS 300 2S	1838	604	108
7200 300 HP	1615	600	119

Dimensions and weight with insulation.

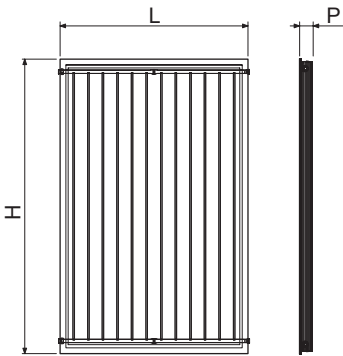
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m ²	Net m ²	η_0	a1 W/m ² K	a2 W/m ² K ²			
RPS 25/2 EVO	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 161.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

WALL-MOUNTED BOILER ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR FAMILY BOILERS		
Vertical connection stub pipe kit $\varnothing 60/100$ mm	(1)	20129174
90° bend kit $\varnothing 60/100$ mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Magnetic filter kit		20178780
Polyphosphate dispenser kit		20178781
Double relay kit (second pump/block signal)		20062614
Adjustable splitter kit from $\varnothing 60/100$ mm to $\varnothing 80/80$ mm		20134830
Fixed split system kit $\varnothing 80$ mm		20129765
Wall-hung collector $\varnothing 60/100$ mm		20129175
Telescopic wall-hung collector $\varnothing 60/100$ mm		20129176
Vertical collector $\varnothing 60/100$ mm		20129177
Split kit B23 $\varnothing 80$ mm for built-in box		20129768
Adapter kit B23 $\varnothing 80$ mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for combined versions		20145304
Anti-freeze resistance kit for heating-only versions		20145305

(1) Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.

(2) Code required in case of horizontal discharge with flue system $\varnothing 60/100$. Accessory already included in kits 20129175 and 20129176.

Description	Notes	Code
ACCESSORIES FOR RESIDENCE BOILERS		
Vertical connection stub pipe kit Ø60/100 mm	(1)	20129174
90° bend kit Ø60/100 mm for boiler start	(2)	20129172
System and gas cock kit for recessed installation (25 KIS model only)		20137668
Connection kit with heating system, domestic water and gas cocks (for KIS models)		20133516
Connection kit with heating system and gas cocks (for IS models)		20133517
Connection kit with domestic water and gas cocks (for KIS models)		20132005
Connection kit with gas cock (for IS models)		20133386
High head circulator kit		20105883
Condensate booster pump kit		20097192
Well probe for remote heater (for heating only version)		1220599
Magnetic filter kit		20178780
Polyphosphate dispenser kit		20178781
Adjustable splitter kit from Ø60/100 mm to Ø80/80 mm		20134830
Fixed split system kit Ø80 mm		20129765
Wall-hung collector Ø60/100 mm		20129175
Telescopic wall-hung collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Split kit B23 Ø80 mm for built-in box		20129768
Adapter kit B23 Ø80 mm		20129769
External probe kit		1220559
Anti-freeze resistance kit for combined versions		20145304
Anti-freeze resistance kit for heating-only versions		20145305

(1) Code required in case of vertical discharge with 60/100 flue system. Accessory already included in kit 20129177.

(2) Code required in case of horizontal discharge with flue system Ø60/100. Accessory already included in kits 20129175 and 20129176.

Description	Code
ACCESSORIES FOR RESIDENCE HYBRID BOILERS	
Open-air installation kit	20011638
Anti-freeze resistance kit	20164833
Condensate booster pump kit	20097192
Wall-hung hydraulic connection kit	20130639
Heating system cock kit	4047252
Clapet kit	20100893
LPG conversion kit (for 25 kW only)	20102669
LPG conversion kit (for 32 kW only)	20102674
Propane air conversion kit (for 25 kW only)	20102673

Description	Notes	Code
ACCESSORIES FOR RESIDENCE IN HYBRID BOILERS		
Door kit for recessed installation	(1)	4047250
Heating system cock kit		4047252
Wall-hung connection kit		4047255
External probe		1220559
Anti-freeze resistance kit for KIS versions		20164827
Anti-freeze resistance kit for IS versions		20164828
Condensate booster pump kit		20097192
Remote heater well probe (for pairing with IS version)		1220599
LPG conversion kit for Residence In Condens 20 IS and 25 KIS		20102669
LPG conversion kit for Residence In Condens 32 KIS		20102674
Propane air conversion kit for Residence In Condens 25 KIS		20102673
Clapet kit		20162838

(1) For retrofit on old boxes without door.

HEAT PUMP ACCESSORIES

Description	Code
ACCESSORIES FOR NXH HEAT PUMPS	
50 litre inertial buffer tank	20171999
100 litre inertial buffer tank	20142300
Heat pump vibration damper kit	20171891
1" Y water filter	20175281
HBOX adjustable bypass valve	20182807

ACCESSORIES HYBRID DISTRIBUTION MODULES

Description	Notes	Code
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit on system and heat pump side		20131752
Photovoltaic system input card	(1)	20132409
Diverting valve kit for BAG ³ HYBRID		20131755
Diverting valve kit for HBOX		20168920
Solar interface kit		20131756

(1) To be used only if the diverting valve (code 20131755) is not present in BAG³ HYBRID configuration.

DOMESTIC TANKS MODULES

Description	Notes	Code
ACCESSORIES FOR DOMESTIC TANKS MODULES		
Solar heat exchanger 0.8 m ² for HP 300		4383504
Solar mixing diverting valve kit	(1)	20025113

(1) Mandatory in case of domestic water heater installation and KIS model boiler.

SOLAR COLLECTOR MODULES ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)	20116168

(1) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.

SOLAR THERMAL ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit	(1)	20008787
Manual solar degasser kit	(2)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383059
18-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, 3/4" connection)		4383052
24-Litre SUN expansion reservoir (specific for solar applications, complete with bracket, 3/4" connection)		4383053

(1) The solar interface kit code 20131756 already contains the solar probe.

(2) Use one for each set of manifolds fitted in the highest position.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of only ON/OFF connection on BAG³ HYBRID

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

SYSTEM CONFIGURABILITY

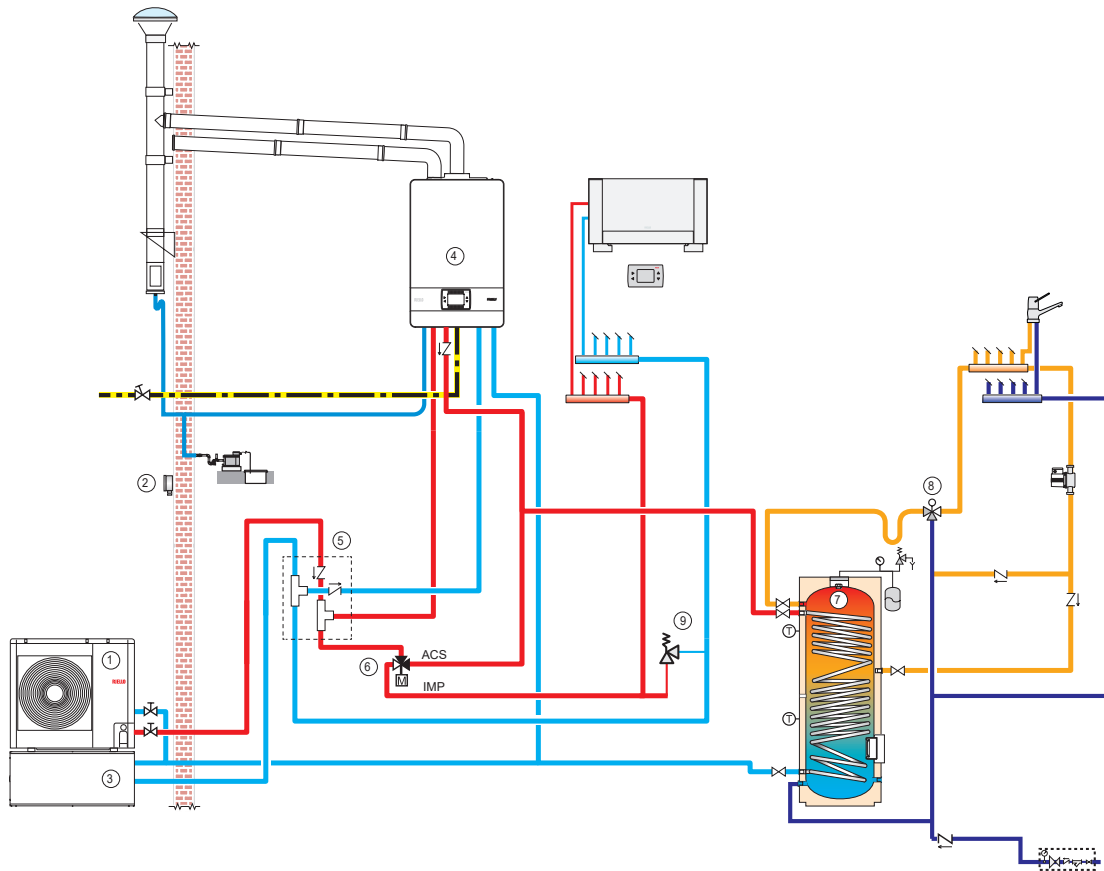
Description	Code	Heat pumps possible combinations								Hydraulic distribution			
		Built-in unit	Management control										
		Box da incasso M	REC 10H	NXH 005	NXH 007	NXH 011	NXH 015	NXH 011T	NXH 015T	HBOX Modulo 1D (1)	BAG ³ HYBRID Modulo 1D (2)	BAG ³ HYBRID Modulo 2D (2)	BAG ³ HYBRID Modulo 1D+1M (2)
		20082310	20124352	20161608	20161610	20161611	20161612	20161613	20161614	20165227	20130805	20130806	20130807
COMBINED VERSION OF HEATING AND INSTANT SANITARY WATER													
FAMILY 25 KIS	20133714	•	•	•	•					•	•	•	•
FAMILY 30 KIS	20142573		•	•	•	•		•		•	•	•	•
FAMILY 35 KIS	20133716		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE 25 KIS	20139525	•	•	•	•					•	•	•	•
RESIDENCE 30 KIS	20148496		•	•	•	•		•		•	•	•	•
RESIDENCE 35 KIS	20139527		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE HYBRID 25 KIS	20130398			•	•					•	•	•	•
RESIDENCE HYBRID 32 KIS	20130399			•	•	•		•		•	•	•	•
RESIDENCE IN HYBRID 25 KIS	20118748	•		•	•					•	•	•	•
RESIDENCE IN HYBRID 32 KIS	20118749	•		•	•	•		•		•	•	•	•
HEATING ONLY VERSION													
FAMILY 25 IS	20133715		•	•	•					•	•	•	•
FAMILY 35 IS	20133717		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE 20 IS	20139526		•	•	•					•	•	•	•
RESIDENCE 35 IS	20139528		•	•	•	•	•	•	•	•	•	•	•
RESIDENCE IN HYBRID 25 IS	20135128	•		•	•					•	•	•	•

(1) Can only be combined with NXH 005-007 heat pumps code 20161608 and 20161610.

(2) Pair the built-in box code 20130808 only with BAG³ HYBRID code 20130805, 20130806 and 20130807.

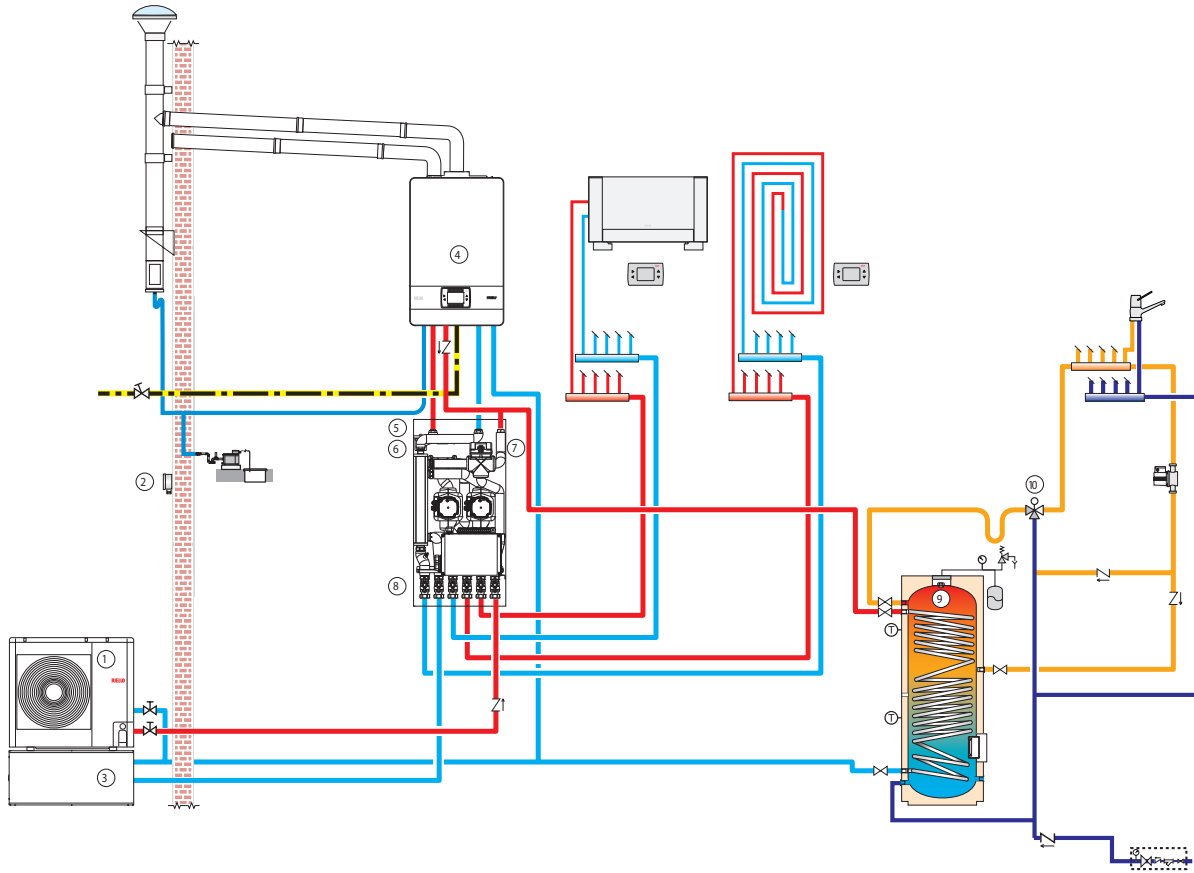
EXAMPLES OF PLANT WITH HYBRID WALL SYSTEM

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND BOILER



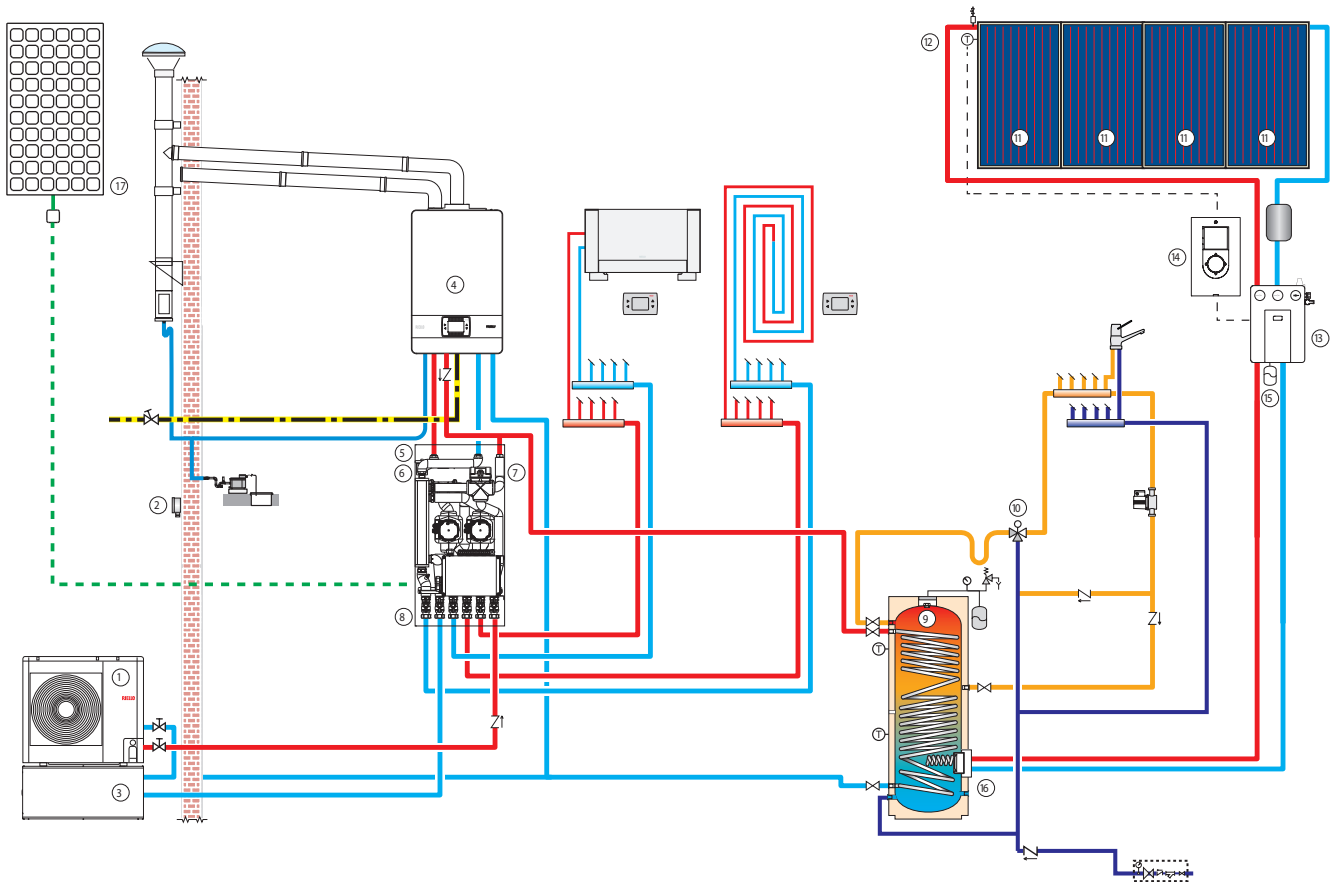
- 1 NXH heat pump
- 2 NXH external probe
- 3 Hot/cold inertial storage kit
- 4 Wall-hung boiler
- 5 HBOX - 1D hybrid distribution module
- 6 DHW diverting valve kit for NXH
- 7 Heater
- 8 3/4" thermostatic mixer
- 9 Adjustable bypass valve

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH HEAT PUMP AND MULTI-ZONE BOILER



- 1 NXH heat pump
- 2 NXH external probe
- 3 Hot/cold inertial storage kit
- 4 Wall-hung boiler
- 5 BAG³ HYBRID
- 6 Built-in box
- 7 Diverting valve kit for BAG³ HYBRID
- 8 Cock kit for BAG³ HYBRID on system and heat pump side
- 9 Heater
- 10 3/4" thermostatic mixer

BIVALENT HEATING, COOLING AND DHW PRODUCTION SYSTEM COMBINED WITH SOLAR THERMAL, HEAT PUMP AND BOILER



- 1 NXH heat pump
- 2 NXH external probe
- 3 Hot/cold inertial storage kit
- 4 Wall-hung boiler
- 5 BAG³ HYBRID
- 6 Built-in box
- 7 Diverting valve kit for BAG³ HYBRID
- 8 Cock kit for BAG³ HYBRID on system and heat pump side
- 9 Heater
- 10 3/4" thermostatic mixer
- 11 Solar collector
- 12 Manual solar degasser kit
- 13 RSS R solar hydraulic unit
- 14 Solar interface kit
- 15 18-Litre SUN expansion reservoir
- 16 Solar heat exchanger
- 17 Photovoltaic system with dry contact

HEAT PUMPS

WALL-HUNG
BOILERSFLOOR-STANDING
BOILERS

WATER-HEATERS

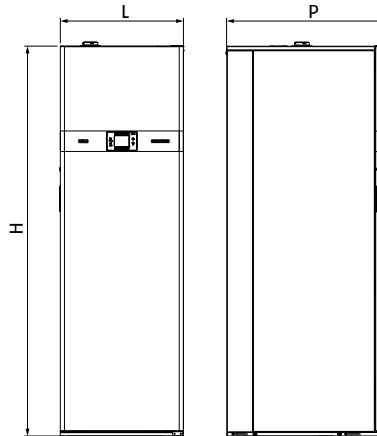
SOLAR THERMAL
AND CYLINDERSCENTRALIZED
HEATINGAIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMSHOT AIR
GENERATORS

Hybrid system-Floor standing solutions

Domus Hybrid



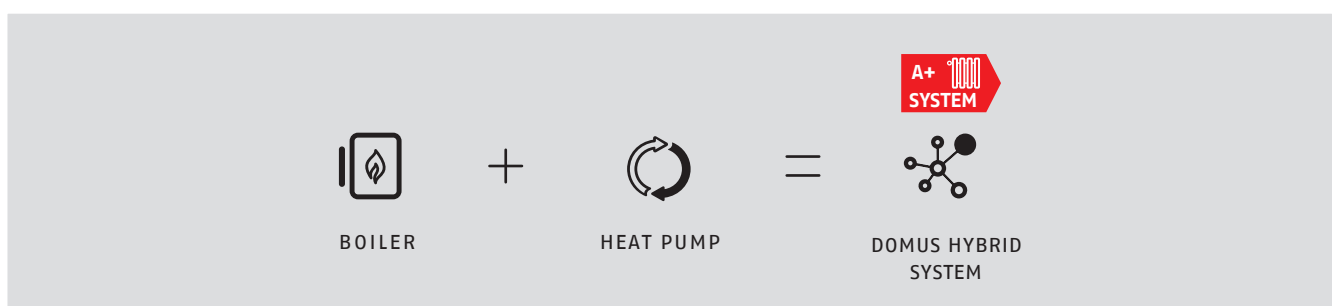
- Heating, cooling and domestic hot water production
- Intelligent management of two energy sources: condensing boiler and heat pump
- Possibility to control up to 3 indoor zones

Description	H mm	L mm	P mm	Net weight kg
Domus Hybrid 25 B/200	1900	600	775	212
Domus Hybrid 35 B/200	1900	600	775	212

Domus Hybrid is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence. Domus Hybrid can be combined with NXH series air/water monobloc heat pumps for hybrid systems.



All components of the hybrid system interact with each other via communication BUS.

- Condensing boiler inside the column unit, available with the 2 powers of 25 and 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic separator, diverting valve for domestic hot water production, 200 litre double coil heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water heat pump equipped with BUS communication with the system intelligence, available with 5, 7, 11 and 15 kW power.



HYBRID FLOOR-STANDING BOILER


TECHNICAL DATA

Description	Heat output Heating/Domestic water min-max kW	Working efficiency		Domestic water production $\Delta T 25^\circ$ l/min	Fuel	Energy efficiency class		Notes	Code
		Nominal output (50°/30°C) %	30% nominal output (ret. 30 °C) %						
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 25 B/200	2,5-25,0	102,8	106,5	14,3	MTN	A	A	(1)	20120778
Domus Hybrid 35 B/200	3,5-35,0	103,5	108,7	17,8	MTN	A	A	(1)	20120779

(1) The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

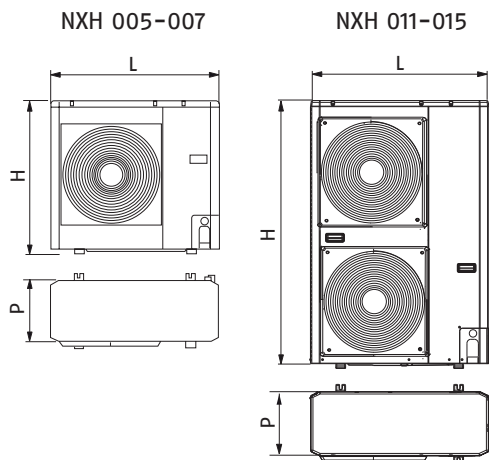
TECHNICAL DATA

Description	Heating				Cooling				Electrical power supply V/Ph/Hz	Energy efficiency class (5) 	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
MONOBLOC AIR - WATER NEW											
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	20093831
1 direct zone + 2 mixed zones	2 x 20093831
2 direct zones	20093833
3 direct zones	2 x 20093833
2 direct zones + 1 mixed zone	20093831 + 20093833


ACCESSORIES

Description	Code
ACCESSORIES FOR DOMUS HYBRID	
Direct hybrid zone kit	20093833
Mixed hybrid zone kit	20093831
Boiler control panel cover kit (with release button)	20124351
REC10H control	20124352
Limit thermostat for low-temperature systems	20085223
Domestic water recirculation kit with circulator	20084749
Heating system and domestic water shut-off cock kit	20084750
Installation template kit	20106844
Condensate booster pump kit	20097192
LPG conversion kit (25 kW)	20104217
LPG conversion kit (35 kW)	20104215
ACCESSORIES FOR NXH HEAT PUMPS	
50 litre inertial buffer tank	20171999
100 litre inertial buffer tank	20142300
Heat pump vibration damper kit	20171891
1" Y water filter	20175281

Flue options system: refer to page 107 section.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of only ON/OFF connection on BAG³ HYBRID

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

Domus Hybrid system priority logics

In domestic hot water production:

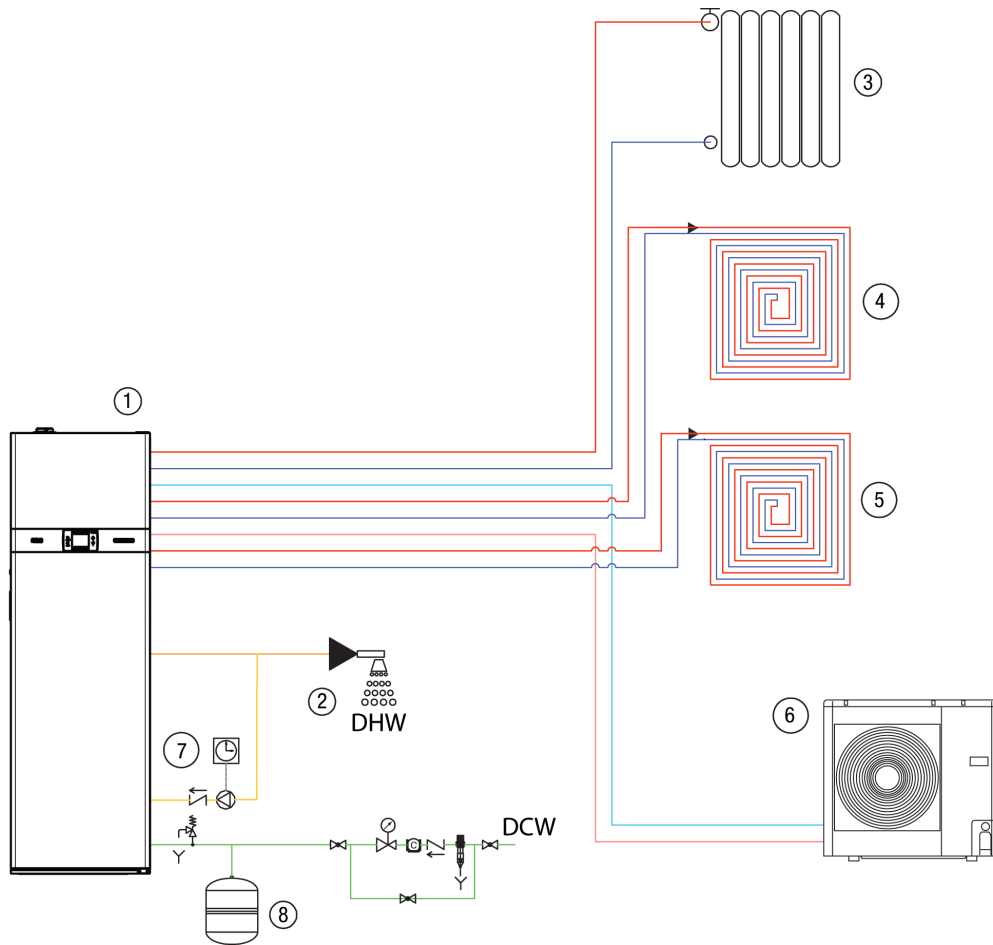
- 1) Heat pump (only if with favourable outdoor temperature conditions and with the possibility of limiting its operation in time slots chosen by the user according to preset usage profiles)
- 2) Boiler

In heating mode:

- 1) Heat pump (only in "winter" and only if the outdoor temperature is favourable)
- 2) Boiler

In cooling mode:

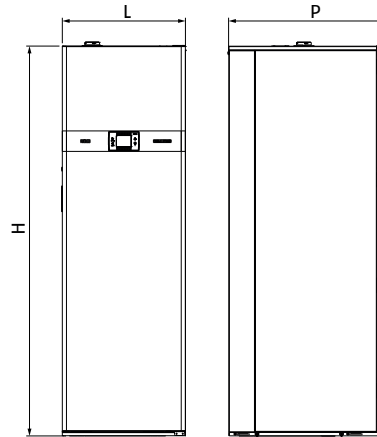
- 1) Heat pump (in "summer" only)



1. DOMUS HYBRID condensing floor-standing boiler
2. User/domestic hot water
3. Direct zone/high temperature
4. Mixed zone/low temperature
5. Mixed zone/low temperature
6. Heat pump
7. Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
8. 8-litre domestic water expansion reservoir, already included as standard inside the column unit

Hybrid system-Floor standing solutions

Domus Hybrid Solar



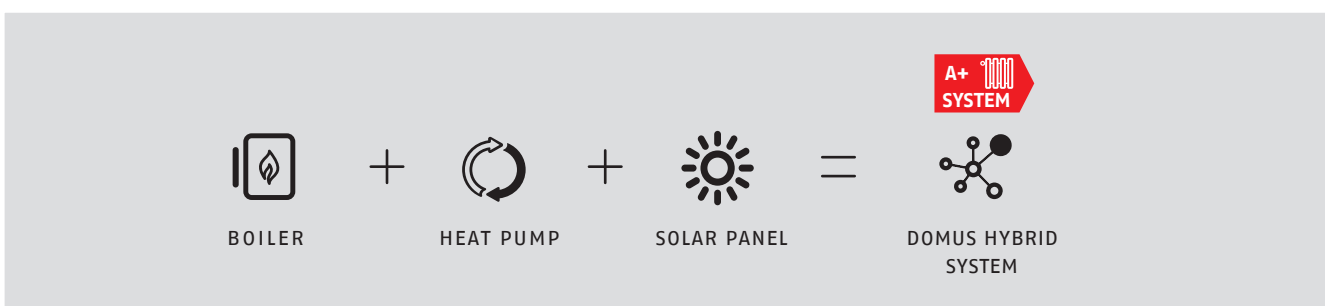
- Heating, cooling and domestic hot water production
- Intelligent management of multiple energy sources: condensing boiler, heat pump and solar thermal
- Possibility to control up to 3 indoor zones

Description	H mm	L mm	P mm	Net weight kg
Domus Hybrid 35 B/200 Solar	1900	600	775	212

Domus Hybrid Solar is a multi-energy hybrid system for heating, summer cooling and domestic hot water production, consisting of a column unit housing a condensing gas boiler, a 200 litre heater with double coil and a control panel with system intelligence. Domus Hybrid Solar can be combined with NXH series air/water monobloc heat pumps for hybrid systems and with solar collectors.



All components of the hybrid system interact with each other via communication BUS.

- Condensing boiler inside the column unit, available with power of 35 kW with condensing heat exchanger, 1:10 modulation ratio and "Range Rated" certification that allows the nominal power to be adjusted to the actual heat demand of the system.
- Column unit equipped with hydraulic compensator, diverting valve for domestic hot water production, 200 litre double coil heater, prearranged for control of a direct zone through a low consumption self-modulating circulator. Up to 2 additional zone control kits can be installed inside the column unit, each one with low-consumption self-modulating circulator, in order to manage up to 3 independent temperature zones.
- Control panel for the entire system with large, intuitive and descriptive display; the panel is the system intelligence, capable of activating the most energy-efficient heat source. It can be removed from the column unit and installed inside the house.
- Intelligent system filling that can be activated from system control panel.
- It can be combined with a monobloc air-water heat pump equipped with BUS communication with the system intelligence, available with 5, 7, 11 and 15 kW power.
- It can be combined with solar collectors; the hydraulic unit and 18-litre expansion reservoir of solar circuit are already included in the Domus Hybrid Solar column.



HYBRID FLOOR-STANDING BOILERS


TECHNICAL DATA

Description	Heat output Heating/ Domestic water min- max kW	Working efficiency		Domestic water production $\Delta T 25^\circ$ l/min	Fuel	Classe energetica		Notes	Code
		Nominal output (50°/30°C) %	30% nominal output (ret. 30 °C) %						
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION									
Domus Hybrid 35 B/200 Solar	3,5-35,0	103,5	108,7	17,8	MTN	A	A	(1)	20120780

(1) The code does not include the heat pump; to be ordered separately according to actual needs.

MATCHING HEAT PUMPS

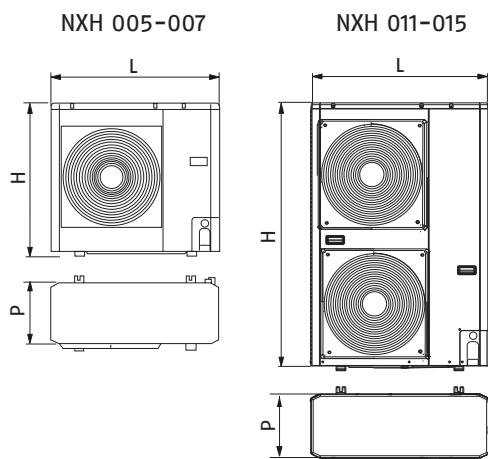
TECHNICAL DATA

Description	Heating				Cooling				Power supply V/Ph/Hz	Energy efficiency class (5) 	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
MONOBLOC AIR - WATER	NEW										
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

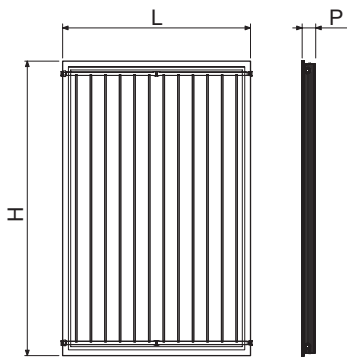
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m ²	Net m ²	η_0	a1 W/m ² K	a2 W/m ² K ²			
RPS 25/2 EVO	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 161.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

ZONE MANAGEMENT

1 Direct zone as standard in the boiler

Zone management	Additional zones kit
1 direct zone + 1 mixed zone	20093831
1 direct zone + 2 mixed zones	2 x 20093831
2 direct zones	20093833
3 direct zones	2 x 20093833
2 direct zones + 1 mixed zone	20093831 + 20093833

ACCESSORIES

Description	Notes	Code
ACCESSORIES FOR DOMUS HYBRID SOLAR		
Direct hybrid zone kit		20093833
Mixed hybrid zone kit		20093831
Boiler control panel cover kit (with release button)		20124351
REC10H control		20124352
Limit thermostat for low-temperature systems		20085223
Domestic water recirculation kit with circulator		20084749
Heating system and domestic water shut-off cock kit		20084750
Installation template kit		20106844
Condensate booster pump kit		20097192
LPG conversion kit (25 kW)		20104217
LPG conversion kit (35 kW)		20104215
ACCESSORIES FOR NXH HEAT PUMPS		
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281
ACCESSORIES FOR SOLAR COLLECTORS		
RSS R solar hydraulic unit	(1)(2)	20116168
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit		20008787
Manual solar degasser kit	(3)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383059

(1) Includes 1 temperature probe for heater.


(2) The RSS R return-only solar hydraulic unit and the solar interface kit (code 20131756) must always be ordered together.

(3) Use one for each set of manifolds fitted in the highest position.

Flue options system: refer to page 107 section.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of only ON/OFF connection on BAG³ HYBRID

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

BASIC LAYOUT PURELY FOR ILLUSTRATIVE PURPOSES: COOLING ALSO POSSIBLE USING FAN COIL

DOMUS HYBRID SOLAR system priority logics:

In domestic hot water production:

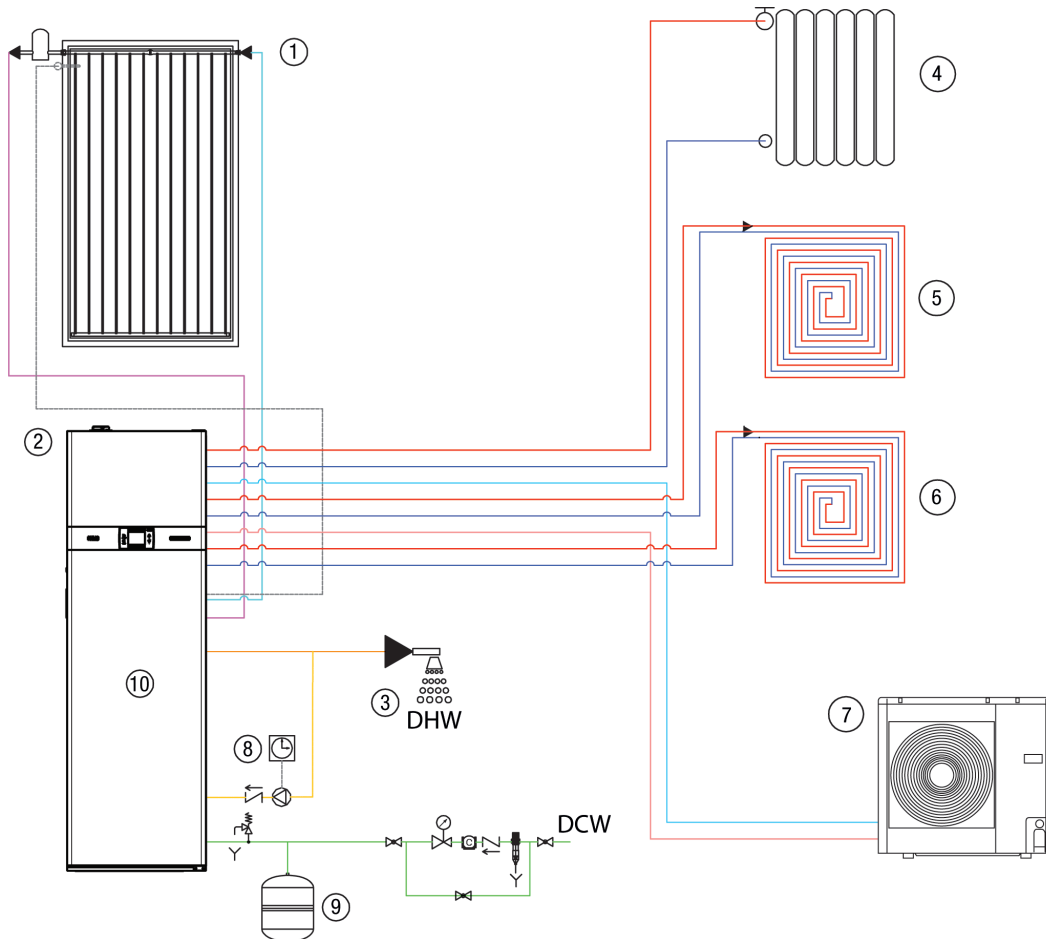
- 1) Solar thermal
- 2) Boiler

In heating mode:

- 1) Heat pump (only in "winter" and only if the outdoor temperature is favourable)
- 2) Boiler

In cooling mode:

- 1) Heat pump (in "summer" only)



1. Solar collector
2. Domus Hybrid Solar condensing floor-standing boiler
3. User/domestic hot water
4. Direct zone/high temperature
5. Mixed zone/low temperature
6. Mixed zone/low temperature
7. Heat pump
8. Domestic water recirculation (optional accessory that can be installed on the boiler, consisting of a circulator with timer)
9. 8-litre domestic water expansion reservoir, already included as standard inside the column unit
10. 18-litre solar expansion reservoir included as standard inside the column unit



HEAT PUMPS



HEAT PUMPS

45

HEAT PUMPS



FOR CENTRAL HEATING AND DHW PRODUCTION FROM LOW TO MEDIUM POWER

AIR / WATER SPLIT

AIR / WATER MONOBLOCK


WALL

STANDING

HIGH TEMPERATURE

HEATING AND AIR CONDITIONING

MEDIUM TEMPERATURE



FAMILY ES
Family ES 5+15M
Family ES 12+25T

NEW

page 46



DOMUS ES
Domus ES 5+15M
Domus ES 12+15T

page 50



NXH 005÷015
NXH 005÷015
NXH 011-015 T

NEW

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DOMUS ES SOLAR
Domus ES Solar 5+15M
Domus ES Solar 12+15T

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NEXPOLAR 004÷015
NEXPOLAR 004÷015 ME
NEXPOLAR 012-015 TE

NEW

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NEXPOLAR 017-022
NEXPOLAR 017-022 TE

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NXH
NXH 026÷040

page 65



NXH
NXH 044÷164

page 66



NXH
NXH 044÷164

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HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

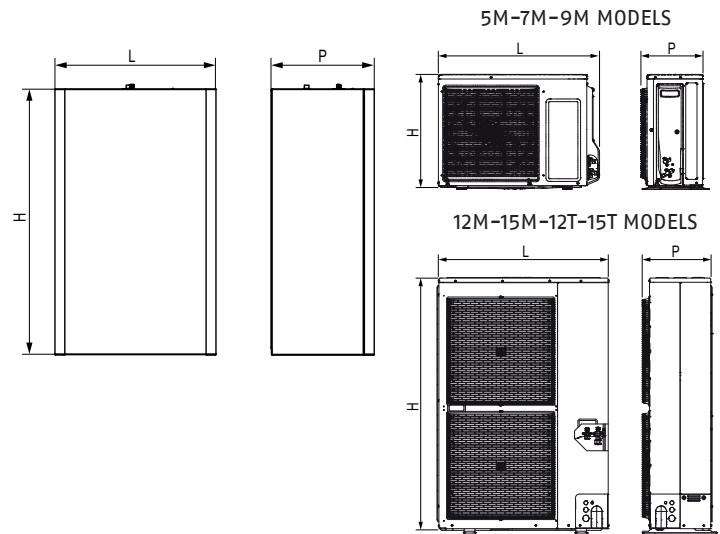
SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Wall-hung split air-water heat pumps

Family ES **NEW**

- Split type heat pump with wall-hung indoor unit for heating, cooling and DHW production
- Wide range of powers available, from 5 to 25kW
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal
- Control panel that can be positioned in the room also with room sensor function (V ErP class)



Description	H mm	L mm	P mm	Net weight kg
INDOOR UNIT				
FAMILY ES	825	505	325	41÷49
OUTDOOR UNIT				
FAMILY ES 5M	619	799	299	39
FAMILY ES 7M	619	799	299	40
FAMILY ES 9M	996	940	340	69
FAMILY ES 12M/12T	1416	940	340	98
FAMILY ES 15M/15T	1416	940	340	98
FAMILY ES 18T	1416	940	340	98
FAMILY ES 25T	1500	980	370	138

Family ES is a split type heat pump system with wall-hung indoor unit for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor wall-hung unit. The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C . The indoor unit houses the main components of the hydronic system, high surface plate exchanger, high efficiency electronic circulator, collector for installation of an additional heating element available as ACCESSORY. The indoor unit is extremely compact with all hydraulic and refrigerant connections from below. Remove the front panel to access all internal components, the electronic service panel and the electrical terminal block. The system control panel is simple and intuitive, with large backlit colour display. It is supplied complete with bracket to be positioned directly inside the rooms. It can be used as room control and allows integration with BAG3 Hybrid distribution systems.

As an alternative to the additional heating element, the Family ES control can also manage an auxiliary heat source, such as a boiler, to be operated as integration or as backup.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)			(5)	(6)	
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER				
THE CODES SHOWN BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT												
FAMILY ES 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50			20181792
FAMILY ES 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50			20181795
FAMILY ES 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50			20181796
FAMILY ES 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50			20181797
FAMILY ES 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50			20181805
FAMILY ES 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50			20181803
FAMILY ES 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50			20181806
FAMILY ES 18T	16,9	4,37	15,9	3,18	19,4	4,13	13,9	3,19	400/3+N/50			20181807
FAMILY ES 25T	24,8	4,06	23,2	2,93	27,9	4,20	19,9	3,15	400/3+N/50			20181809

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016

- (1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
- (2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
- (3) External air temperature 35°C; water inlet/outlet 23/18°C
- (4) External air temperature 35°C; water inlet/outlet 12/7°C
- (5) Value referred to the Average climate profile for delivery temperature of 35 °C. Values in accordance with Regulation 811/2013
- (6) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013

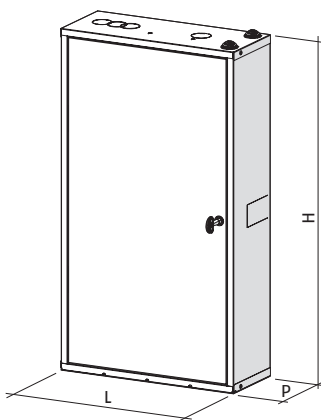
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum power absorbed W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- (1) Supplied without built-in box.
- (2) Equipped as standard with limit thermostat for low temperature systems.
- (3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
- (4) Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

Description	Set code	Indoor unit code	Outdoor unit code
FAMILY ES 5M	20181792	20174927	20155167
FAMILY ES 7M	20181795	20174927	20155172
FAMILY ES 9M	20181796	20174927	20155173
FAMILY ES 12M	20181797	20174929	20155174
FAMILY ES 15M	20181805	20174929	20155175
FAMILY ES 12T	20181803	20174932	20155182
FAMILY ES 15T	20181806	20174932	20155184
FAMILY ES 18T	20181807	20174932	20175541
FAMILY ES 25T	20181809	20174933	20175544


ACCESSORIES

Description	Notes	Code
7200 300 HP		4383500
7200 500 HP		4383501
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(1)	20155831
2-4-6 kW three-phase heating element kit	(1)	20157335
1" DHW diverting valve with heater probe		20175064
1" Y water filter		20175281

(1) The power supplied by the heating element depends on the type of wiring performed during installation.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

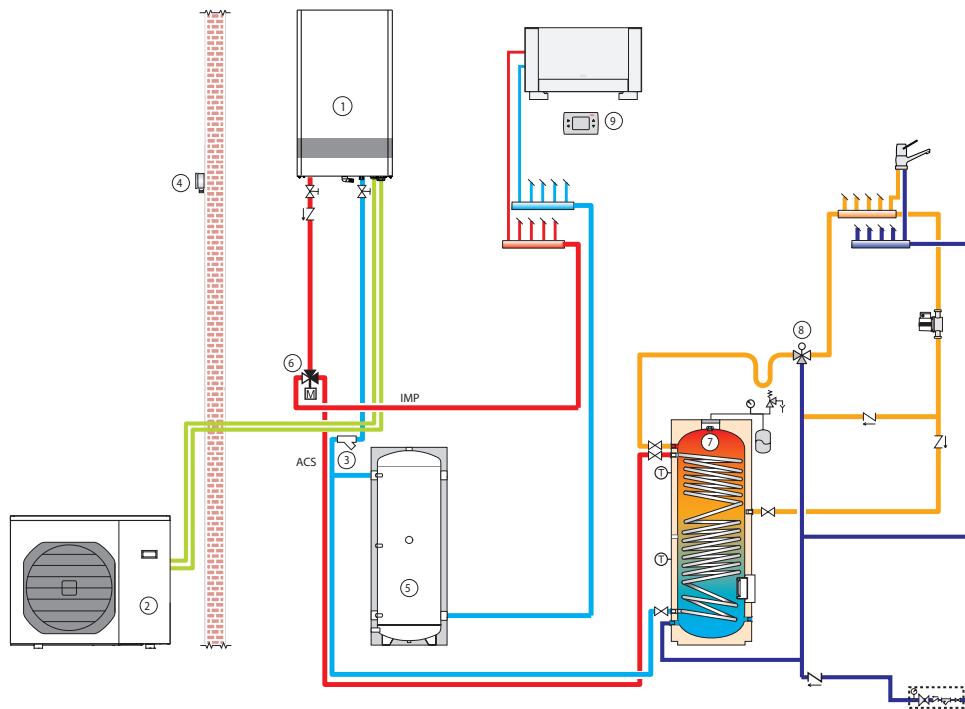
(*) Possibility of only ON/OFF connection on BAG³ HYBRID

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

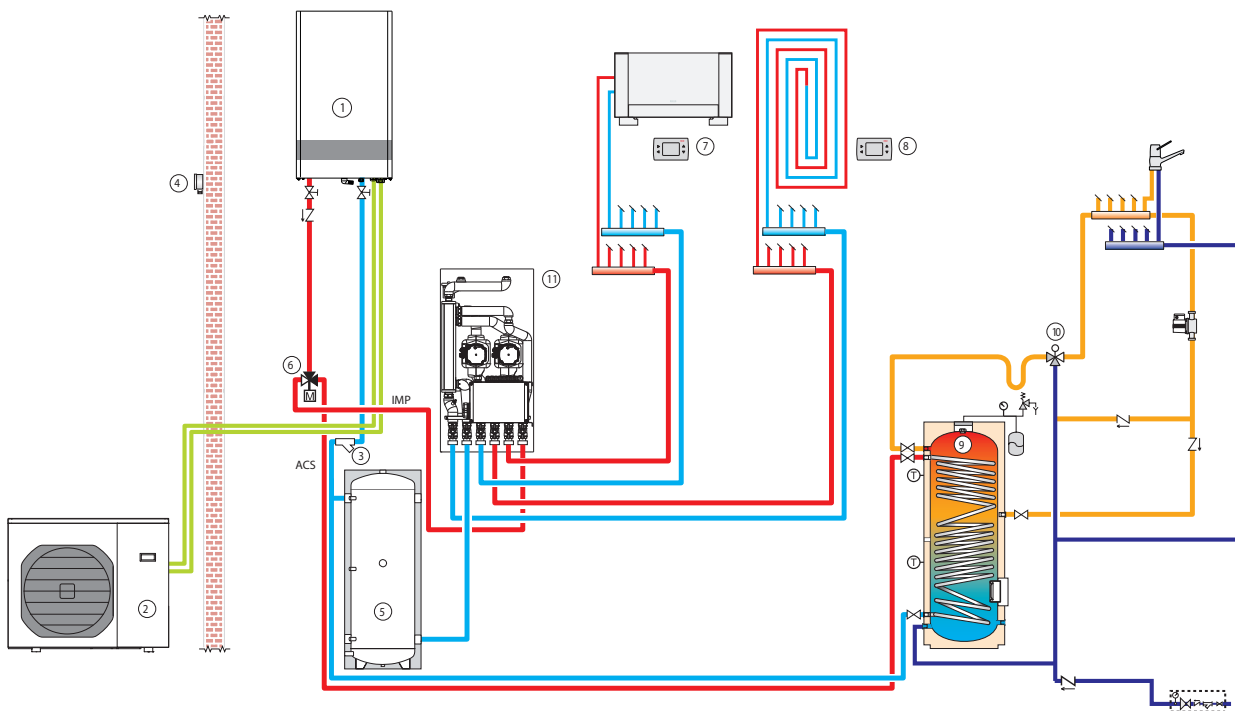
SYSTEM DIAGRAMS

1. Bivalent heating, cooling and DHW production system



- 1 Indoor unit heat pump
- 2 Outdoor unit heat pump
- 3 Y-filter
- 4 External air probe
- 5 Buffer tank
- 6 DHW diverting valve kit
- 7 Heater
- 8 3/4" thermostatic mixer
- 9 REC10CH remote control

2. Bivalent system for heating, cooling and multizone DHW production



- 1 Indoor unit heat pump
- 2 Outdoor unit heat pump
- 3 Y-filter
- 4 External air probe
- 5 Buffer tank
- 6 DHW diverting valve kit
- 7 REC10CH remote control
- 8 Additional zone control
- 9 Heater
- 10 3/4" thermostatic mixer
- 11 BAG³ HYBRID

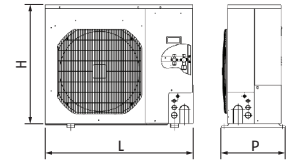
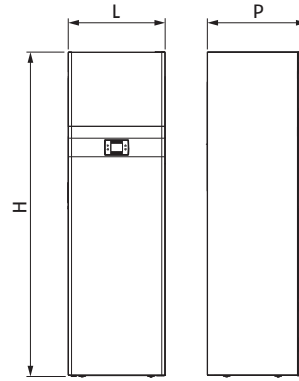


- Ready-to-use solution for heating, cooling and DHW production
- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no anti-legionella)
- Possibility of connecting and managing a second external generator

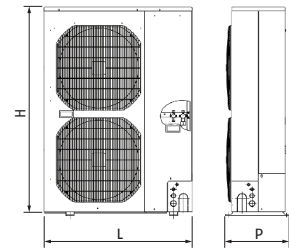
Floor standing split air-water heat pumps

Domus ES

5M-7M-9M MODELS



12M-15M-12T-15T MODELS



Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5-7-9-12-15M	600	600	2000	179
DOMUS ES 12-15T				

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5M	619	799	299	39
DOMUS ES 7M	619	799	299	40
DOMUS ES 9M	996	940	340	69
DOMUS ES 12M	1416	940	340	98
DOMUS ES 15M	1416	940	340	98
DOMUS ES 12T	1416	940	340	98
DOMUS ES 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit.

The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C .

The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 200l buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital signals

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)					
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER				
THE CODES SHOWN BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT												
DOMUS ES 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50	A++	A /L	20155360
DOMUS ES 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50	A++	A /L	20155362
DOMUS ES 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50	A+++	A /L	20155363
DOMUS ES 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50	A+++	A /XL	20155364
DOMUS ES 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50	A+++	A /XL	20155366
DOMUS ES 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50	A+++	A /XL	20155365
DOMUS ES 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50	A+++	A /XL	20155368

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016

- (1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
- (2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
- (3) External air temperature 35°C; water inlet/outlet 23/18°C
- (4) External air temperature 35°C; water inlet/outlet 12/7°C
- (5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
- (6) Tank set temperature 53°C. Values compliant with standard EN 16147.

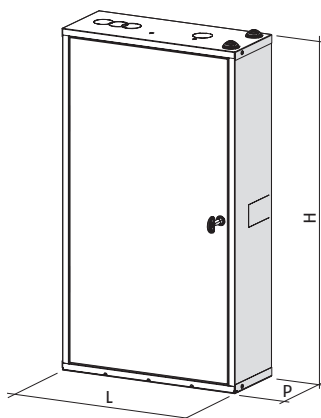
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- (1) Supplied without built-in box.
- (2) Equipped as standard with limit thermostat for low temperature systems.
- (3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
- (4) Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

CODE MATCHING TABLE

Description	Set code	Indoor unit code	Outdoor unit code
DOMUS ES 5M	20155360	20155167	20155185
DOMUS ES 7M	20155362	20155172	20155186
DOMUS ES 9M	20155363	20155173	20155311
DOMUS ES 12M	20155364	20155174	20155313
DOMUS ES 15M	20155366	20155175	20155315
DOMUS ES 12T	20155365	20155182	20155316
DOMUS ES 15T	20155368	20155184	20155318

ACCESSORIES


Description	Notes	Code
Cock kit	(1)	20155924
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(2)	20155831
2-4-6 kW three-phase heating element kit	(2)	20157335
S hydraulic separator kit (includes secondary circulator)	(3)	20155826
L hydraulic separator kit (includes secondary circulator)	(4)	20155827
Average temperature circulator kit (towel warmers)		20155834
REC10CH locking kit and wall bracket		20161942
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit for BAG ³ HYBRID on system and heat pump side		20131752

All accessories are supplied separately as kits and must be installed on site.

- (1) Mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks, system and towel warmers, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
- (2) The power supplied by the heating element depends on the type of wiring performed during installation.
- (3) Accessory that can be combined with Domus ES 5, 7 and 9 models. This accessory must be installed in the unit before connecting it to the system.
- (4) Accessory that can be combined with Domus ES 12, 15 models. This accessory must be installed in the unit before connecting it to the system.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

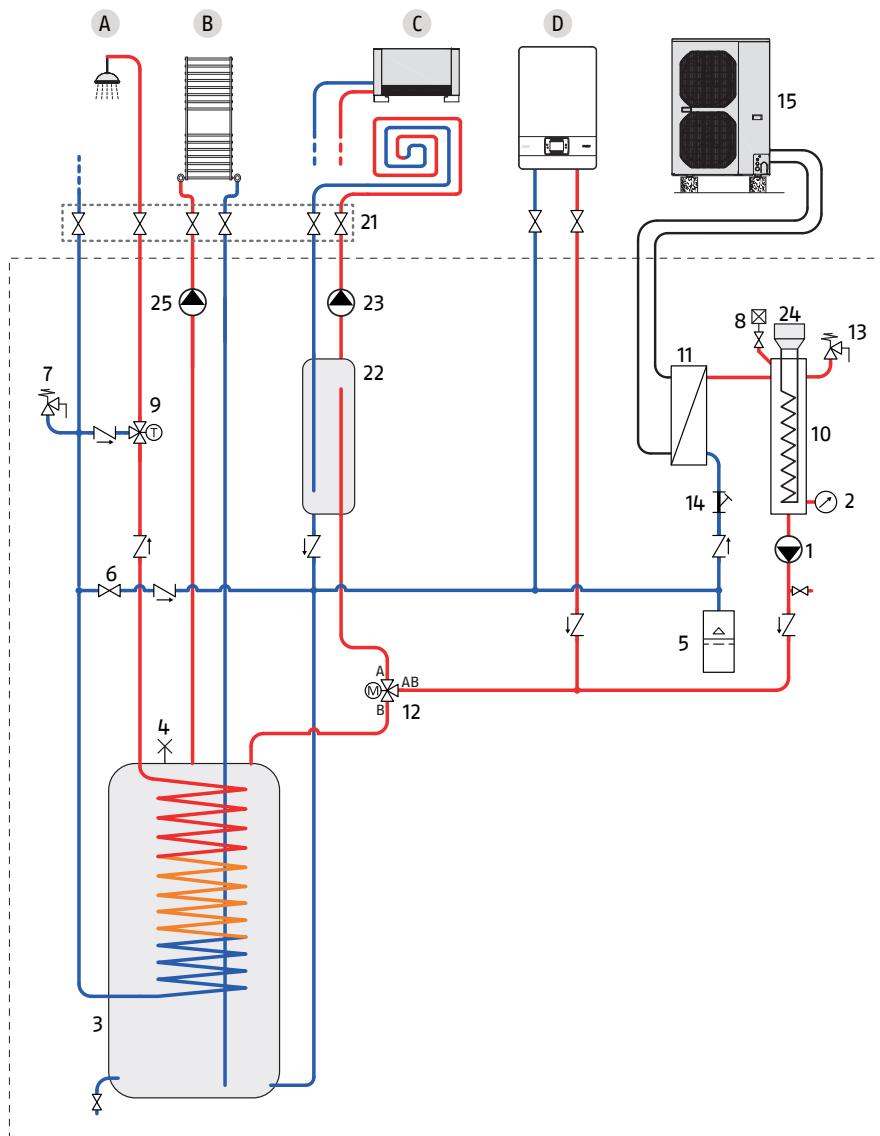
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of only ON/OFF connection on BAG³ HYBRID

- (1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
- (2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

HYDRAULIC DIAGRAM

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the single-phase/three-phase heating element kit is configured, it can be set to operate as an integration or as an alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the average temperature circulator kit ACCESSORY. This can be installed directly inside the unit where the power cable for the pump and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG³ Hybrid must be added as a distribution system.

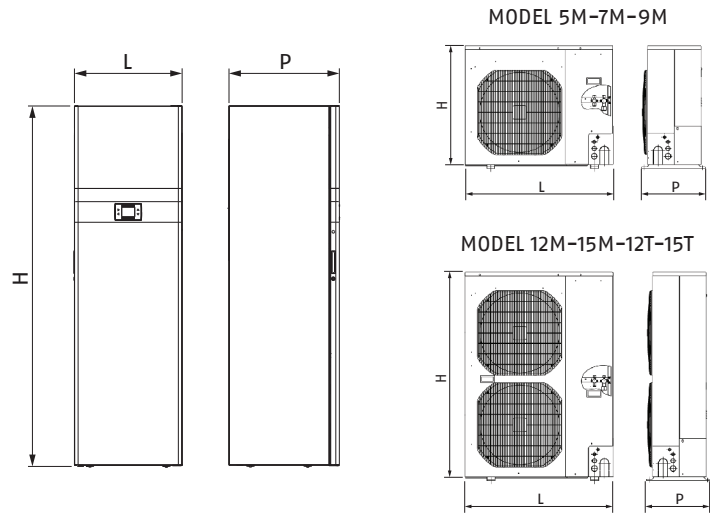


- | | | |
|---------------------------------|--|--|
| A Domestic water users | 9 Thermostatic mixing valve | 25 Towel warmer circulation pump (P3) **** |
| B Towel warmers | 10 Manifold | |
| C Main system users | 11 Plate exchanger | * Accessory cock kit |
| D Secondary generator (boiler) | 12 3-way diverting valve | ** Accessory hydraulic separator kit with secondary circuit circulator |
| 1 Primary circulation pump (P1) | 13 3-bar safety valve | *** Accessory supplemental heating element kit |
| 2 Pressure gauge | 14 Y-filter | **** Accessory towel warmer circulator kit |
| 3 Domestic water buffer tank | 15 Outdoor unit | |
| 4 Manual bleeder valve | 21 Cock kit * | |
| 5 Expansion reservoir | 22 Hydraulic separator ** | |
| 6 System load valve | 23 Secondary circulation pump (P2) ** | |
| 7 6-bar safety valve | 24 2/4/6 kW supplemental heating element *** | |
| 8 Automatic drain valve | | |



Floor standing split air-water heat pumps

Domus ES Solar



- Ready-to-use solution for heating, cooling and DHW production
- Dedicated connections for bathroom towel warmers with temperature and management independent from the main system
- Instant DHW production with high efficiency stainless steel heat exchanger (no anti-legionella)
- Intelligent management of multiple energy sources: heat pump, boiler and solar thermal

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES 5-7-9-12-15M	600	600	2000	179
DOMUS ES 12-15T				

Note: dimensions and weights refer to the indoor unit only.

Description	H mm	L mm	P mm	Net weight kg
DOMUS ES SOLAR 5M	619	799	299	39
DOMUS ES SOLAR 7M	619	799	299	40
DOMUS ES SOLAR 9M	996	940	340	69
DOMUS ES SOLAR 12M	1416	940	340	98
DOMUS ES SOLAR 15M	1416	940	340	98
DOMUS ES SOLAR 12T	1416	940	340	98
DOMUS ES SOLAR 15T	1416	940	340	98

Note: dimensions and weights refer to the outdoor unit only.

Domus ES Solar is a floor-standing split heat pump system for heating, cooling and domestic water production. The system consists of an outdoor unit in R410A connected through refrigerant pipes to the indoor floor-standing unit.

The outdoor unit, compact and quiet, includes a Twin Rotary DC inverter compressor, electronic expansion valve, fans with brushless motor and finned pack coil optimized for heat pump operation even with outdoor air temperature of -20°C .

The main components of the hydronic system are located in the indoor unit, including a 200l buffer tank with high-surface stainless steel coil for instantaneous production of domestic hot water.

- All-in-One floor-standing indoor unit for clean and tidy installation
- 200l buffer tank with exchanger for instantaneous production of DHW
- Elimination of anti-legionella cycles
- Compact indoor unit, only 600x600mm plan dimensions, and with reduced clear spaces
- Hydraulic, electrical and refrigeration connections from above
- Front access to all components and simplified installation thanks to the cock kit (ACCESSORY)
- Simple and intuitive control panel with large backlit colour display and suitable for remote connection in the room
- Connections for 2 independent direct zones: one for the main heating/air conditioning system, the other for towel warmers
- Easy integration with a secondary backup generator through dedicated hydraulic connections and management via digital signals
- Solar management directly from the machine user interface
- The solar section includes high efficiency circulator, 24-litre expansion reservoir, safety valve, pressure gauge and panel probe.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class		Notes	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)			(5)	(6)		
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER					
THE CODES LISTED BELOW ALWAYS REFER TO THE COMBINATION OF INDOOR UNIT AND OUTDOOR UNIT													
DOMUS ES SOLAR 5M	4,8	4,11	4,5	2,96	5,1	3,43	3,5	2,48	230/1/50	A++	A	/L (D)	20155373
DOMUS ES SOLAR 7M	7,1	4,33	6,7	3,13	7,4	4,02	5,3	3,03	230/1/50	A++	A	/L (D)	20155375
DOMUS ES SOLAR 9M	8,1	4,53	7,6	3,46	8,7	4,21	6,3	3,18	230/1/50	A+++	A	/L (D)	20155376
DOMUS ES SOLAR 12M	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	230/1/50	A+++	A	/XL (D)	20155377
DOMUS ES SOLAR 15M	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	230/1/50	A+++	A	/XL (D)	20155382
DOMUS ES SOLAR 12T	12,8	4,44	12,0	3,37	12,3	4,09	8,9	3,22	400/3+N/50	A+++	A	/XL (D)	20155380
DOMUS ES SOLAR 15T	14,6	4,58	13,7	3,40	15,6	4,00	11,2	3,20	400/3+N/50	A+++	A	/XL (D)	20155385

The performance is in accordance with standards EN 14511:2013 and EN 14825:2016

- (1) External air temperature 7°C BS, 6°C BU; water inlet/outlet 30/35°C
- (2) External air temperature 7°C BS, 6°C BU; water inlet/outlet 40/45°C
- (3) External air temperature 35°C; water inlet/outlet 23/18°C
- (4) External air temperature 35°C; water inlet/outlet 12/7°C
- (5) Value referred to the Average climate profile for delivery temperature of 55 °C. Values in accordance with Regulation 811/2013
- (6) Tank set temperature 53°C. Values compliant with standard EN 16147
- (D) Availability of the material at our warehouse: 15 working days from the order validation date.

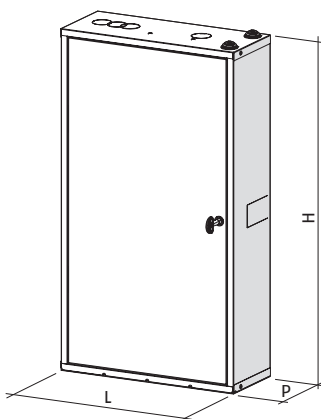
MATCHING HYBRID DISTRIBUTION MODULES

TECHNICAL DATA

Description	Zone management	Electrical supply V/Ph/Hz	Maximum absorbed power W	Notes	Code
BAG ³ HYBRID 2D	2 direct zone	230/1/50	114	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	230/1/50	118	(1)(3)	20130807
IN-WALL INSTALLATION BOX				(4)	20130808

- (1) Supplied without built-in box.
- (2) Equipped as standard with limit thermostat for low temperature systems.
- (3) Mixed zone equipped as standard with limit thermostat for low temperature systems.
- (4) Galvanised sheet built-in box, possible white painting; the box is mandatory for installation of BAG³ HYBRID.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

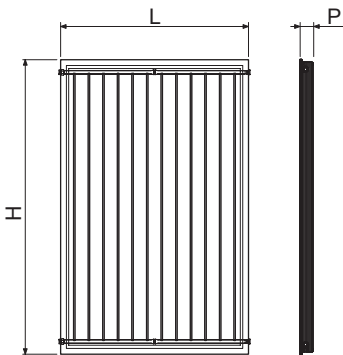
MATCHING SOLAR COLLECTORS

TECHNICAL DATA

Description	Collector surface		Values referred to the opening area			Stagnation temperature °C	Notes	Code
	Gross m ²	Net m ²	η_0	a1 W/m ² K	a2 W/m ² K ²			
RPS 25/2 EVO	2,30	2,15	0,821	4,41	0,0060	198	(1)	20127134
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137

(1) The solar collector brackets kits are available in the section "SOLAR COLLECTORS" on page 161.

OVERALL DIMENSIONS



Description	H mm	L mm	P mm	Net weight kg
RPS 25/2 EVO	2004	1195	86	41,5
RPS 25/4	2004	1195	85	44

CODE MATCHING TABLE

Description	SET code	Outdoor unit code	Indoor unit code
DOMUS ES SOLAR 5M	20155373	20155167	20155319
DOMUS ES SOLAR 7M	20155375	20155172	20155324
DOMUS ES SOLAR 9M	20155376	20155173	20155330
DOMUS ES SOLAR 12M	20155377	20155174	20155331
DOMUS ES SOLAR 15M	20155382	20155175	20155333
DOMUS ES SOLAR 12T	20155380	20155182	20155334
DOMUS ES SOLAR 15T	20155385	20155184	20155337

ACCESSORIES


Description	Notes	Code
Cock kit	(1)	20155924
50 litre inertial buffer tank		20171999
2-4-6 kW single-phase heating element kit	(2)	20155831
2-4-6 kW three-phase heating element kit	(2)	20157335
S hydraulic separator kit (includes secondary circulator)	(3)	20155826
L hydraulic separator kit (includes secondary circulator)	(4)	20155827
Average temperature circulator kit (towel warmers)		20155834
REC10CH locking kit and wall bracket		20161942
ACCESSORIES FOR HYBRID DISTRIBUTION MODULES		
Cock kit for BAG ³ HYBRID on system and heat pump side		20131752
ACCESSORIES FOR SOLAR THERMAL		
Solar collector probe kit	(5)	20008787
Manual solar degasser kit	(6)	20026577
Weld-in connection kit (includes: 2 weld-in connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132142
Connection kit for stainless steel tube (includes: 2 connectors for connection to RPS 25/2 EVO and RPS 25/4 collectors and 2 connectors for connection to RSS hydraulic unit or directly to the solar heater)		20132143
15 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383254
20 m flexible DN16 stainless steel tube kit (includes: double corrugated stainless steel pipe for delivery and return, cable for solar probe and suitable insulation for solar applications)		4383255
5 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383085
10 kg propylene glycol kit (concentrated heat transfer fluid, with corrosion inhibitors, for flat collectors)		4383059

All accessories are supplied separately as kits and must be installed on site.

- (1) mandatory accessory to be ordered together with the unit. The kit includes domestic water inlet and outlet cocks , system and towel warmers, the discharge tubes for safety valves, the collector for discharge and the necessary hardware.
- (2) The power supplied by the heating element depends on the type of wiring performed during installation.
- (3) Accessory that can be combined with Domus ES 5, 7 and 9 models. This ACCESSORY must be installed in the unit before connecting it to the system.
- (4) Accessory that can be combined with Domus ES 12, 15 models. This ACCESSORY must be installed in the unit before connecting it to the system.
- (5) The indoor unit already includes a panel probe.
- (6) Use one for each set of manifolds fitted in the highest position.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

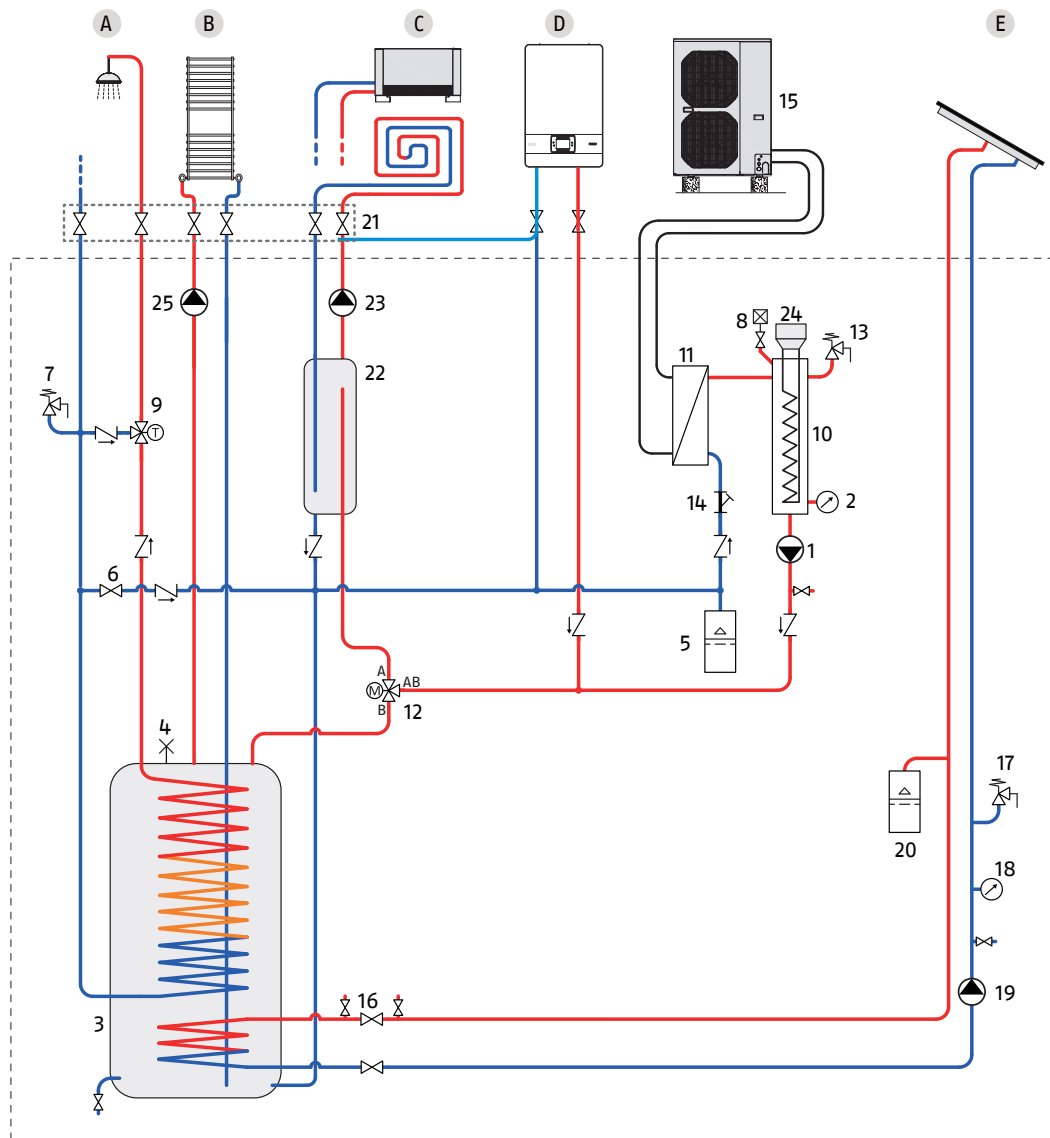
Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of only ON/OFF connection on BAG³ HYBRID

- (1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
- (2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

HYDRAULIC DIAGRAM

- The control of a possible external boiler is performed through two digital signals: one for enabling and one for management of a second setpoint in case of domestic water request.
- If a boiler presence is configured, it will only be used as an alternative (backup) to the heat pump.
- If the "integrating heating element" kit is configured, it can be set to operate as an integration or as an alternative to the heat pump.
- The connections to the average temperature circuit for towel warmers are always present, but to operate they require the "Towel warmer circulator kit" Accessory. This can be installed directly inside the unit where the power cable for the pump and the terminals to which the bathroom thermostats can be connected are already in place.
- The average temperature circuit for towel warmers is completely independent from the main system and can therefore be used even when the latter is off. The delivery temperature is equal to the temperature set for the domestic water buffer tank.
- The main system is managed through a digital enabling of a room thermostat. If more than one zone is to be managed, the various room thermostats must be placed in parallel and it is advisable to add the "Hydraulic separator kit" ACCESSORY to the standard equipment.
- Otherwise, it is possible to remotely connect the user interface of the indoor unit in the room, using it also as room thermostat. If more than one zone is to be managed, the BAG³ Hybrid must be added as a distribution system.

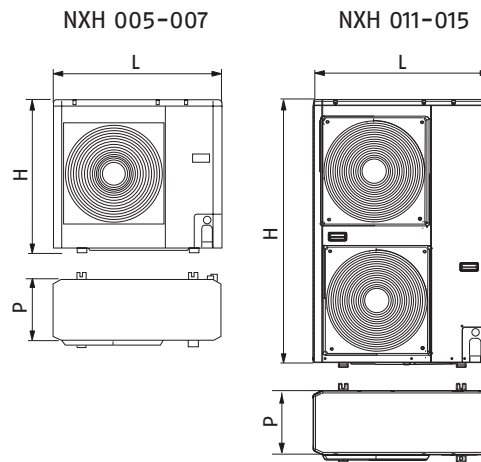


- | | | |
|---------------------------------|------------------------------|--|
| A Domestic water users | 9 Thermostatic mixing valve | 22 Hydraulic separator ** |
| B Towel warmers | 10 Manifold | 23 Secondary circulation pump (P2) ** |
| C Main system users | 11 Plate exchanger | 24 2/4/6 kW supplemental heating element *** |
| D Secondary generator (boiler) | 12 3-way diverting valve | 25 Towel warmer circulation pump (P3) **** |
| E Solar panel | 13 3-bar safety valve | |
| 1 Primary circulation pump (P1) | 14 Y-filter | |
| 2 Pressure gauge | 15 Outdoor unit | |
| 3 Domestic water buffer tank | 16 Solar load valve | |
| 4 Manual bleeder valve | 17 4-bar solar safety valve | |
| 5 Expansion reservoir | 18 Solar pressure gauge | |
| 6 System load valve | 19 Solar circuit pump (PS0) | |
| 7 6-bar safety valve | 20 Solar expansion reservoir | |
| 8 Automatic drain valve | 21 Cock kit * | |

* Accessory cock kit
 ** Accessory hydraulic separator kit with secondary circuit circulator
 *** Accessory supplemental heating element kit
 **** Accessory towel warmer circulator kit

Monobloc air-water heat pumps

NXH 005÷015 NEW



- High efficiency inverter heat pump

Description	H mm	L mm	P mm	Net weight kg
NXH 005	821	908	326	57
NXH 007	821	908	326	69
NXH 011	1363	908	326	115
NXH 015	1363	908	326	115

NXH is a high energy efficient residential hydronic heat pump for heating, cooling and possible production of domestic hot water for domestic use.

The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing high energy efficiency at all times.

NXH is also equipped with new Blue-Fin exchange coils, a special hydrophilic and anti-corrosion treatment, which improves the flow of condensation on the fins thus reducing the risk of freezing on the coil (maximum efficiency even in humid climates). The machine is also equipped with new electronics and a new FREE-DEFROST defrosting logic.

NXH is available in 6 models, from 5.1 to 15.1 kW.

- DC-Inverter technology with Twin-Rotary compressor
- High COP and EER
- They can be connected to low-temperature radiators, underfloor radiant elements and fan coil type units
- Water heating temperature up to +60°C
- Easy and quick installation; small size
- New FREE-DEFROST defrosting logic

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nominal power kW	COP	Nominal power kW	COP	Nominal power kW	EER	Nominal power kW	EER			
MONOBLOC AIR - WATER	NEW										
NXH 005	5,10	4,40	4,85	3,40	4,85	4,35	4,00	3,10	230/1/50	A++	20161608
NXH 007	7,15	4,10	6,80	3,20	8,00	4,00	5,55	3,10	230/1/50	A++	20161610
NXH 011	11,25	4,70	11,30	3,60	13,70	4,60	11,20	3,40	230/1/50	A++	20161611
NXH 015	15,10	4,25	13,40	3,40	16,00	4,10	12,80	3,10	230/1/50	A++	20161612
NXH 011T	11,20	4,60	10,40	3,60	13,75	4,65	10,65	3,40	400/3/50	A++	20161613
NXH 015T	15,00	4,35	13,50	3,50	17,00	4,15	13,00	3,20	400/3/50	A++	20161614

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
 (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (2) Heating: delivery water temperature 45 °C with gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
 (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature.

ACCESSORIES

Description	Notes	Code
REC10CH remote control		20181191
Remote control HP<15 kW (WUI)	(1)	20171898
Solar heat exchanger 0.8 m ² for 300 HP	(2)	4383504
Solar heat exchanger 1.2 m ² for 500 HP	(2)	4383505
1" DHW diverting valve with heater probe	(3)(4)(5)	20168920
7200 300 HP (NXH 005-007)		4383500
7200 500 HP (NXH 011-015)		4383501
Single-phase electric heating element for DHW heater 2.2 kW	(3)(6)(7)	20182272
1PH-3PH 2-6 kW supplemental electric heating element	(3)(6)	20182292
7000 Aci 60 Plus		20090056
7000 Aci 120 Plus		20082450
External air probe		20028567
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281
Heater single-phase heating element kit 1.5 kW for 300 HP and 7000 ACI PLUS	(2)(1)	4383270
Heater three-phase heating element kit 3.8 kW for 500 HP and 7000 ACI PLUS	(2)(1)	20020707

(1) For stand-alone installation.

(2) The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.

(3) Only in combination with REC10CH remote control.

(4) Mandatory in case of domestic water heater installation.

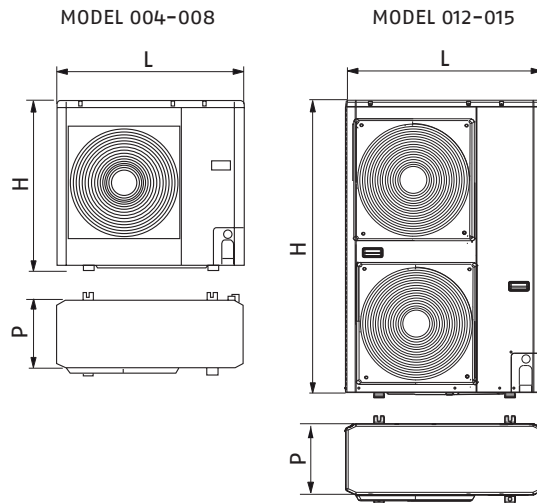
(5) Includes 1 temperature probe for heater.

(6) Includes electrical power box and activation relay.

(7) The kit includes the three-way diverting valve for DHW with heater probe.

Monobloc air-water heat pumps

NexPolar 004÷015 NEW



- High efficiency inverter heat pump

Description	H mm	L mm	P mm
NexPolar 004-006-008	820	900	320
NexPolar 012-015	1360	900	320


NexPolar is the new Riello proposal for heating and cooling, with possible production of high energy efficient domestic hot water for domestic use. The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing high energy efficiency at all times. The operating range of the unit in winter reaches outdoor temperatures of -20 °C, with hot water up to +60 °C; in summer operation the maximum outdoor temperature is +47 °C with a maximum chilled water temperature of +18 °C.

NexPolar is therefore the ideal proposal for any type of residential and commercial application for heating and cooling with underfloor installations and/or fan coils.

The unit is monobloc, so all components are housed inside to facilitate and speed up installation operations. NexPolar is supplied with climate control as standard. NexPolar is available in nine models, from 4.1 to 15 kW.

- DC-Inverter technology with Twin-Rotary compressor
- Low inrush current thanks to the Inverter technology
- High COP and EER
- They can be connected to low-temperature radiators, underfloor heating elements and fan coil type units
- Remote control available as accessory to be ordered separately
- Water heating temperature up to +60°C
- Easy and quick installation; only connection of the hydraulic pipes is required
- Small size.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class  (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nom. power kW	COP	Nom. power kW	COP	Nom. power kW	EER	Nom. power kW	EER			
NexPolar 004 ME	4,07	4,15	3,87	3,26	4,93	4,20	3,33	3,02	230/1/50	A++	20160833
NexPolar 006 ME	5,76	4,28	5,76	3,05	7,04	3,70	4,73	3,00	230/1/50	A++	20160834
NexPolar 008 ME	7,16	3,97	7,36	3,19	7,84	3,99	5,84	2,98	230/1/50	A+	20160835
NexPolar 012 ME	11,86	3,95	12,91	3,03	13,54	3,66	10,24	2,96	230/1/50	A+	20160836
NexPolar 015 ME	14,46	4,09	13,96	3,23	16,04	3,85	13,04	2,95	230/1/50	A++	20160837
NexPolar 012 TE	12,00	4,30	11,20	3,35	13,50	4,15	10,20	3,00	400/3/50	A++	20160838
NexPolar 015 TE	15,00	4,20	14,50	3,30	16,00	3,81	13,00	2,91	400/3/50	A++	20160839

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (2) Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C
- (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C
- (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature

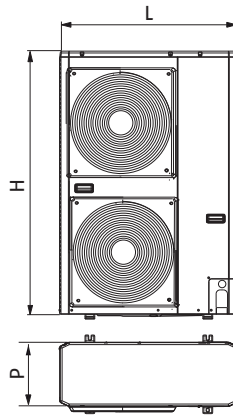
ACCESSORIES

Description	Notes	Code
Remote control HP<15kW (SUI)		20171895
Remote control HP<15kW (NUI)		20171897
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
Heater single-phase heating element kit 1.5 kW for 7000 ACI PLUS	(1)	4383270
Heater three-phase heating element kit 3.8 kW for 7000 ACI PLUS	(1)	20020707
External air probe		20028567
50 litre inertial buffer tank		20171999
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281

(1) The ACCESSORY must be ordered together with the base unit and is supplied not installed with finished product availability.

Monobloc air-water heat pumps

NexPolar 017-022



- High efficiency inverter heat pump

Description	H mm	L mm	P mm
NexPolar 017-022	1579	1135	559

NexPolar is the new Riello proposal for heating and cooling, with possible production of high energy efficient domestic hot water for domestic use. The unit is equipped with a PAM and PWM modulated DC-Inverter control, which allows the Twin-Rotary type compressor to be continuously modulated from 30% up to 120%, thereby guaranteeing high energy efficiency at all times. The operating range of the unit in winter reaches outdoor temperatures of -20 °C, with hot water up to +60 °C; in summer operation the maximum outdoor temperature is +47 °C with a maximum chilled water temperature of +18 °C.


NexPolar is therefore the ideal proposal for any type of residential and commercial application for heating and cooling with underfloor installations and/or fan coils.

The unit is monobloc, so all components are housed inside to facilitate and speed up installation operations.

NexPolar is supplied with climate control as standard. NexPolar is available in nine models, 17 and 21 kW.

- DC-Inverter technology with Twin-Rotary compressor
- Low inrush current thanks to the Inverter technology
- High COP and EER
- They can be connected to low-temperature radiators, underfloor heating elements and fan coil type units
- On-board control as standard
- Water heating temperature up to +60°C
- Easy and quick installation; only connection of the hydraulic pipes is required
- Small size.

TECHNICAL DATA

Description	Heating				Cooling				Electrical supply V/Ph/Hz	Energy efficiency class  (5)	Code
	Floor (1)		Fan coils (2)		Floor (3)		Fan coils (4)				
	Nom. power kW	COP	Nom. power kW	COP	Nom. power kW	EER	Nom. power kW	EER			
NexPolar 017 TE	17,10	4,10	16,90	3,30	20,20	3,80	14,90	3,00	400/3/50	A+	20102834
NexPolar 022 TE	21,10	4,10	21,00	3,30	25,80	3,80	18,60	3,10	400/3/50	A+	20102838

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (2) Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C
- (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C
- (5) Seasonal energy efficiency class for average climate zone for 55 °C delivery temperature

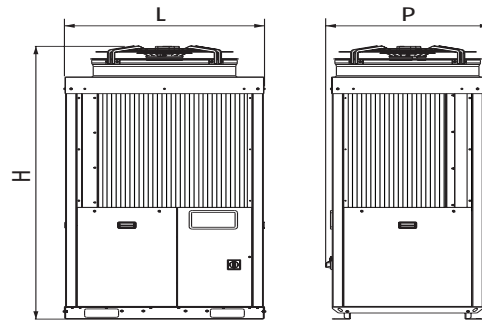
ACCESSORIES

Description	Notes	Code
7000 ACI 60 PLUS		20090056
7000 ACI 120 PLUS		20082450
Support bracket kit		20175145
Heater single-phase heating element kit 1.5 kW for 7000 ACI PLUS	(1)	4383270
Heater three-phase heating element kit 3.8 kW for 7000 ACI PLUS	(1)	20020707
External air probe		20028567
Domestic water probe		20121637
Cascade probe		20121638
100 litre inertial buffer tank		20142300
Heat pump vibration damper kit		20171891
1" Y water filter		20175281

(1) The accessory must be ordered together with the base unit and is supplied not installed with finished product availability.

Monobloc air-water heat pumps

NXH 026÷040



- Air-water reversible heat pumps for powers from 31 kW to 39 kW with helical fan and hydronic kit as standard


Description	H mm	L mm	P mm
NXH 026÷040	1790	1002	824

The NXH series units are reversible heat pumps with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system. These features, the wide operating range with outdoor temperatures down to -15°C in heating mode and up to +48°C in air conditioning mode, make this series ideal for applications where extreme compactness, simplicity and speed of installation are required.

The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- CLASS A + efficiency
- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

Description	Output (1) kW	COP (1)	Output (2) kW	COP (2)	Output (3) kW	EER (3)	Output (4) kW	EER (4)	ESEER (4)	Energy efficiency class  (5)	Notes	Code
NXH 026	30,9	3,94	29,7	3,18	33,9	3,52	26,2	2,89	3,23	A+	(A)	20120387
NXH 033	34,4	3,95	33,1	3,17	42,8	3,83	32,2	3,11	3,46	A+	(A)	20120388
NXH 040	38,8	3,48	40,9	3,13	54	3,37	39,1	2,81	3,12	A+	(A)	20120389

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

- (1) Heating: delivery water temperature 35 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (2) Heating: delivery water temperature 45 °C with thermal gradient 5K; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
- (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; inlet air temp. 35 °C.
- (5) Seasonal energy efficiency class for average climate zone for low temperature application.

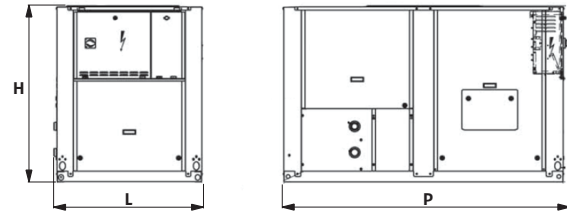
Conditions for supply:

- (A) For 7000 ACI PLUS tank accessories, refer to the dedicated section.

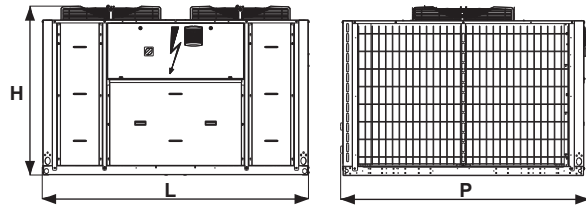
Monobloc air-water heat pumps

NXH 044÷164

NXH 44÷80



NXH 84÷164



- Silenced reversible air-water heat pump with helical fans from 43 kW to 162 kW, with ecological refrigerant R410A

Description	H mm	L mm	P mm
NXH 044÷080	1440	1090	2109
NXH 084÷164	1440	2273	2136

* Height without "Tank" option


The NXH series units are reversible heat pumps for heating and air conditioning of commercial users for outdoor installation, available with various options to choose from such as: one pump, two pumps, with or without tank, with or without partial recoverer.

Maximum reliability and efficiency thanks to the high level of partialization: for powers up to 121 kW with two/three single-circuit Scroll compressors, while for powers of 142 kW and 162 kW with four compressors divided into two circuits. The water-side exchanger is of the brazed plate type. The units are equipped with axial fans with external rotor with variable speed, to ensure operation with outdoor temperatures down to -10°C in heating mode and up to 48°C in air conditioning mode.

Intuitive interface thanks to the touch screen control with possible M-BUS connection.

- CLASS A + efficiency
- Plug & Play solution with pump(s) on board the machine (optional)
- Low aesthetic impact thanks to the reduced height
- Easy maintenance by removing the service panels
- Air exchanger protection grille
- Touch screen control panel with possible M-BUS connection

TECHNICAL DATA

Description	Output (1) KW	COP (1)	Output (2) KW	COP (2)	Output (3) KW	EER (3)	Output (4) KW	EER (4)	ESEER	Energy efficiency class  (5)	Notes	Code
SILENCED UNIT WITH HYDRAULIC KIT AND ONE PUMP (NOT FURTHER CONFIGURABLE WITH OPTION LIST)												
NXH 044-1P	42	3,69	41	3,05	47	3,23	38	2,80	3,64	A+	(D)	20120428
NXH 048-1P	46	3,69	46	3,02	54	3,11	43	2,66	3,67	A+	(D)	20120429
NXH 056-1P	53	3,76	52	3,01	63	3,04	49	2,61	3,70	A+	(D)	20120430
NXH 064-1P	61	3,72	59	3,01	71	3,08	58	2,72	3,53	A+	(D)	20120431
NXH 072-1P	68	3,64	66	2,98	78	3,04	63	2,66	3,50	A+	(D)	20120432
NXH 080-1P	78	3,46	75	2,85	89	2,81	70	2,43	3,37	A+	(D)	20120433
SILENCED UNIT WITHOUT HYDRAULIC KIT (FURTHER CONFIGURABLE WITH OPTION LIST)												
NXH 044	42	3,69	41	3,05	47	3,23	38	2,80	3,64	A+	(D)	20120412
NXH 048	46	3,69	46	3,02	54	3,11	43	2,66	3,67	A+	(D)	20120413
NXH 056	53	3,76	52	3,01	63	3,04	49	2,61	3,70	A+	(D)	20120414
NXH 064	61	3,72	59	3,01	71	3,08	58	2,72	3,53	A+	(D)	20120415
NXH 072	68	3,64	66	2,98	78	3,04	63	2,66	3,50	A+	(D)	20120416
NXH 080	78	3,46	75	2,85	89	2,81	70	2,43	3,37	A+	(D)	20120418
NXH 084	82	3,78	79	3,11	97	3,14	77	2,75	3,83	A+	(D)	20120421
NXH 096	92	3,80	90	3,05	107	3,09	85	2,66	3,70		(D)(T)	20120422
NXH 104	100	3,76	97	3,06	117	3,05	95	2,66	3,76		(D)(T)	20120424
NXH 122	116	3,68	112	3,00	142	3,05	112	2,65	4,00		(D)(T)	20120425
NXH 142	135	3,61	130	2,95	162	3,12	131	2,73	3,65		(D)(T)	20120426
NXH 164	155	3,47	150	2,86	185	2,87	148	2,54	3,61		(D)(T)	20120427

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:
 (1) Heating: delivery water temperature 35 °C with thermal gradient 5°C; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (2) Heating: delivery water temperature 45 °C with thermal gradient 5°C; outdoor air temperature 7 °C Tb.s and 6 °C Tb.u.
 (3) Cooling: delivery water temperature 18 °C with water thermal gradient 5 °C; outdoor air temp. 35 °C.
 (4) Cooling: delivery water temperature 7 °C with water thermal gradient 5 °C; outdoor air temp. 35 °C.
 (5) Seasonal energy efficiency class for average climate zone for low temperature application.

Supply conditions:

- (D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
- (T) Product not subject to standard transport rates. Please contact the Order Management Office for transport quote.

LIST OF OPTIONS

Description		044	048	056	064	072	080	Notes
Partial recoverer	Code	20120633	20120633	20120633	20120633	20120638	20120639	(A)
Hydraulic kit with 1 high head pump	Code	20120597	20120597	20120597	20120597	20120597	20120597	(A)
Hydraulic kit with 2 high head pumps	Code	20120601	20120601	20120601	20120601	20120601	20120601	(A)
Hydraulic kit with 1 high head variable pump	Code	20120604	20120604	20120604	20120604	20120604	20120604	(A)
Hydraulic kit with 2 high head variable pumps	Code	20120607	20120607	20120607	20120607	20120607	20120607	(A)
Tank	Code	20120610	20120610	20120610	20120610	20120610	20120610	(A)
Soft starter	Code	20120656	20120656	20120656	20120656	20120656	20120656	(A)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(A)(B)
Vibration dampers	Code	20120640	20120640	20120640	20120640	20120640	20120640	(A)
Plus silenced version	Code	-	-	-	20129753	20129753	20129753	(A)

Description		084	096	104	122	142	164	Notes
Partial recoverer	Code	20120641	20120645	20120647	20120649	20120653	20120655	(A)
Hydraulic kit with 1 high head pump	Code	20120598	20120598	20120598	20120599	20120599	20120599	(A)
Hydraulic kit with 2 high head pumps	Code	20120602	20120602	20120602	20120603	20120603	20120603	(A)
Hydraulic kit with 1 high head variable pump	Code	20120605	20120605	20120605	20120606	20120606	20120606	(A)
Hydraulic kit with 2 high head variable pumps	Code	20120608	20120608	20120608	20120609	20120609	20120609	(A)
Tank	Code	20120610	20120611	20120611	20120611	20120611	20120611	(A)
Soft starter	Code	20120656	20120657	20120657	20120657	20120658	20120658	(A)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(A)(B)(C)
Vibration dampers	Code	20120642	20120642	20120642	20120642	20120642	20120642	(A)
Plus silenced version	Code	-	-	-	-	20129753	20129753	(A)

(A) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.

(B) One kit required per unit (cascade up to a maximum of two units).

(C) To be provided for every single unit.

NOTE: accessories have the same availability as the finished products.



WALL-HUNG BOILERS

CONDENSING WALL-HUNG BOILERS	72
STANDARD-EFFICIENCY WALL-HUNG BOILERS	95
SYSTEM COMPLEMENTARY ITEMS	103
FLUE OPTIONS SYSTEM	107

CONDENSING WALL-HUNG BOILERS



INDOOR



FAMILY

FAMILY 25 KIS (3,6-20,0/3,6-25,0 kW)
 FAMILY 30 KIS (4,9-25,0/4,9-30,0 kW)
 FAMILY 35 KIS (4,9-30,0/4,9-34,6 kW)

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RESIDENCE

RESIDENCE 25 KIS (3,6-20,0/3,6-25,0 kW)
 RESIDENCE 30 KIS (4,9-25,0/4,9-30,0 kW)
 RESIDENCE 35 KIS (4,9-30,0/4,9-34,6 kW)
 RESIDENCE 40 KIS (4,9-30,0/4,9-40,0 kW)

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START CONDENS

START CONDENS 25 KIS (5,0-20,0/5,0-25,0 kW)
 START CONDENS 29 KIS (6,0-25,0/6,0-29,0 kW)

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START AR

START AR 25 KIS (7,5÷25,0/7,5÷25,0 kW)

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NEW

START AR

START AR 25 KIS (12,5-25,0/12,5-25,0 kW)
 START AR 29 KIS (14,0-28,0/14,0-28,0 kW)

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OUTDOOR



FAMILY EXTERNA CONDENS

FAMILY EXTERNA CONDENS 3.0 KIS
 (3,2÷25,0/3,2÷30,0 kW)

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RESIDENCE EXTERNA CONDENS

RESIDENCE EXTERNA CONDENS 25 KIS
 (3,1÷20,0/3,1÷25,0 kW)
 RESIDENCE EXTERNA CONDENS 32 KIS
 (3,7÷30,0/3,7÷32,0 kW)

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KIS

Heating/Domestic Water heat output
 KIS: Combined, Heating and Instant DHW production

CONDENSING WALL-HUNG BOILERS



INDOOR



FAMILY

FAMILY 25 IS (3,6-20,0/3,6-25,0 kW)
FAMILY 35 IS (4,9-30,0/4,9-34,6 kW)

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RESIDENCE

RESIDENCE 20 IS (3,6-20,0/3,6-20,0 kW)
RESIDENCE 35 IS (4,9-30,0/4,9-34,6 kW)

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START CONDENS

START CONDENS 25 IS (5,0-20,0/5,0-25,0 kW)

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FAMILY AQUA CONDENS

FAMILY AQUA CONDENS 3.5 BIS (3,5-35,0 kW)

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START AQUA CONDENS

START AQUA CONDENS 25/45 BIS (6,0-25,0 kW)
START AQUA CONDENS 25/60 BIS (6,0-25,0 kW)

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IS

BIS

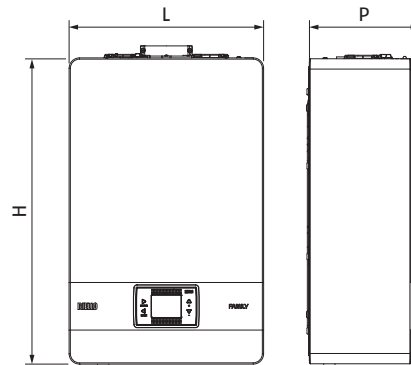
Heating/Domestic Water heat output

IS: Heating only

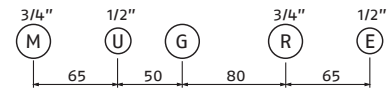
BIS: Combined, Heating and DHW production with boiler

Wall-hung condensing boilers

Family



M-FLOW
 U-DHW OUTLET
 G-GAS
 R-RETURN
 E-DHW INLET



- Stainless steel primary heat exchanger
- High performance domestic hot water heat exchanger
- Self-adaptive electronic combustion control
- Class 6 NOx
- Combi and heating only models, NG and LPG compatible

Description	H mm	L mm	P mm	Net weight kg
FAMILY 25 KIS	740	470	275	35
FAMILY 30 KIS	740	470	350	39
FAMILY 35 KIS	740	470	350	39
FAMILY 25 IS	740	470	275	35
FAMILY 35 IS	740	470	350	39

Overall height of the SRD device: 822 mm

The new Family is the Riello solution for the most demanding user. The primary heat exchanger, made of stainless steel on the inside, provides maximum reliability and efficiency over time and the new optimised domestic hot water heat exchanger ensures exceptional comfort and the best energy efficiency class for this mode (class A).

The new Family comes with outputs of 25, 30 and 35 kW, in instantaneous combi or just heating versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- Possibility of integration into hybrid systems using the integrated ModBus protocol
- new colour display panel that can also be installed on a wall with room unit function (ErP class: V)
- Smart system filling function
- 10 litre expansion tank
- Modulating circulator with high discharge head and low consumption
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Assembly template, hydraulic connections, electric power cable and hole closure plug for remote interface provided
- Easy to install and a wide range of accessories



NEW INOX
HEAT EXCHANGER



NEW DHW
HEAT EXCHANGER



HIGH
EFFICIENCY



AUTO-ADAPTIVE
COMBUSTION
CONTROL



CLASS 6
NOx













INTUITIVE
CONTROL



QUICK
INSTALLATION

TECHNICAL DATA

Description	Heat input Heating/DHW min - max kW	Useful efficiency		DHW production $\Delta T 25^\circ$ l/min	Energy efficiency class		Notes	Code
		P _n (50°/30 °C) %	30% P _n (return 30 °C) %					
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
FAMILY 25 KIS	3,6-20,0/3,6-25,0	106,2	108,4	15,1			(1)	20133714
FAMILY 30 KIS	4,9-25,0/4,9-30,0	106,0	108,1	18,1			(1)	20142573
FAMILY 35 KIS	4,9-30,0/4,9-34,6	106,9	108,0	20,8			(1)	20133716
ONLY HEATING VERSION								
FAMILY 25 IS	3,6-20,0/3,6-25,0	106,2	108,4	-		-	(1)	20133715
FAMILY 35 IS	4,9-30,0/4,9-34,6	106,9	108,0	-		-	(1)	20133717

(1) The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

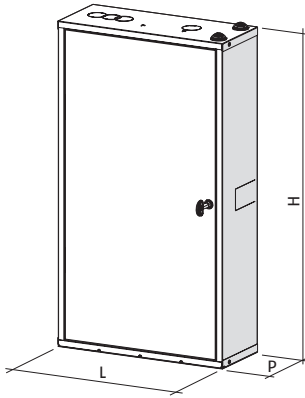
Description	Notes	Code
ELECTRICAL ACCESSORIES		
Kit for managing second pump or zone valves		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
External probe		1220559
Immersion probe for remote storage cylinder (for heating only version)		1220599
FLUES AND INTAKE AIR		
Wall collector $\varnothing 60/100$ mm		20129175
Telescopic wall collector $\varnothing 60/100$ mm		20129176
Vertical collector $\varnothing 60/100$ mm		20129177
Adaptor kit B23 $\varnothing 80$ mm		20129769
90° boiler start bend kit $\varnothing 60/100$ mm	(3)	20129172
Splitter device kit B23 $\varnothing 80$ mm for in-wall installation box		20129768
Adjustable splitter device kit from $\varnothing 60/100$ mm to $\varnothing 80/80$ mm		20134830
Fixed splitter system kit $\varnothing 80$ mm		20129765
Vertical connection manifold kit $\varnothing 60/100$ mm	(2)	20129174
HYDRAULIC ACCESSORIES		
Condensate evacuation pump		20097192
Polyphosphates doser kit		20135496
Magnetic filter and polyphosphates doser kit		20135495
First zone management kit (MIX or DIR zone)	(4)	20132795
Additional zone management kit (MIX or DIR zone)	(4)(5)	20132796
Kit with system and gas taps for recessed installation (only model 25 KIS)		20137668
Solar diverter valve kit for instantaneous wall-hung combi boilers		20025113
MECHANICAL ACCESSORIES		
In-wall installation unit (only model 25 KIS)	(1)	20082310

- (1) Unit supplied complete with door
- (2) Code necessary for vertical discharge with flue system $\varnothing 60/100$. Accessory already included in the kit 20129177
- (3) Code necessary for horizontal discharge with flue system $\varnothing 60/100$. Accessory already included in the kit 20129175 and 20129176
- (4) allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ Hybrid
- (5) The first zone management kit should always be present. The boiler can manage up to a maximum of 3 zones in total.
- (*) **Dedicated flue gases accessories, compatible with the Family flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems"**

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- (1) Supplied without in-wall installation box
 (2) Equipped as standard with limit thermostat for low temperature systems
 (3) Mixed zone equipped as standard with limit thermostat for low temperature systems
 (4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID




Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG ³ HYBRID system side and heat pump	20131752
Remote control panel kit for additional zone	20124352

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

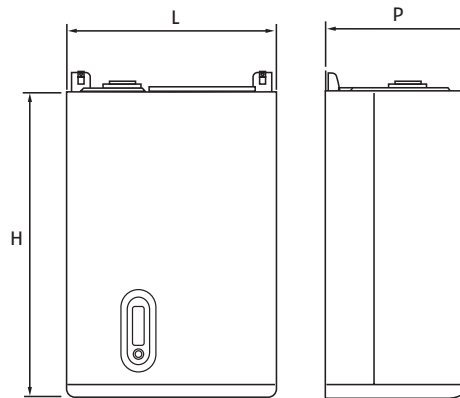
(*) Possibility of only ON/OFF connection on BAG³ HYBRID

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.

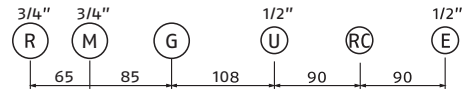
(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Condensing wall-hung boilers

Family Aqua Condens



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET
RC-RECIRCULATION



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing heat exchanger in aluminium, with premix burner
- Combi model with built-in 60-liters DHW tank in stainless steel

Description	H mm	L mm	P mm	Net weight kg
FAMILY AQUA CONDENS 3.5 BIS	1015	600	450	72

Family Aqua Condens is a wall-hung boiler that guarantees an excellent comfort in the DHW production thanks to a built-in 60-liters DHW storage tank in stainless steel. The Riello heat exchanger, manufactured 100% aluminium, ensures high efficiency and long life, while reducing polluting emissions to a minimum.

Family Aqua Condens is available with outputs from 3.5 to 35 kW.

- Modulating ratio 1:10 (minimum output of 3.5 kW) which allows the boiler to meet all heating requirements
- "Range Rated" certification which allows adapting the rated output of the boiler to the thermal requirements of the installation
- High efficiency circulator (EEI ≤ 0,20)
- Remote alarm which allows the reporting of the boiler lockout status
- Special Family functions: Comfort Button, Memory Button, Touch&Go Function, Smart semi-automatic Filling System
- Boilers are equipped with: mounting template, hydraulic connections, wiring and LPG conversion kit.
- External probe supplied as standard.

TECHNICAL DATA


Description	Heat input Heating/DHW min - max kW	Useful efficiency		Tank capacity l	Fuel	Energy efficiency class		Code
		P _n (50°/30 °C) %	30% P _n (return 30 °C) %					
ROOM-SEALED - HEATING AND DHW PRODUCTION								
FAMILY AQUA CONDENS 3.5 BIS	3,5-35,0	105,5	108,0	60,0	NG	A	A	20021509

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
ELECTRICAL ACCESSORIES	
Family Remote Control (REC06) (with electronic interface board)	20165771
Interface board ITRF11	20164477
Remote alarm kit	20165627
Room sensor kit	20163783
Zone valves management kit	20165142
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

RICLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		2011885
	RF-wireless boiler receiver		20117359

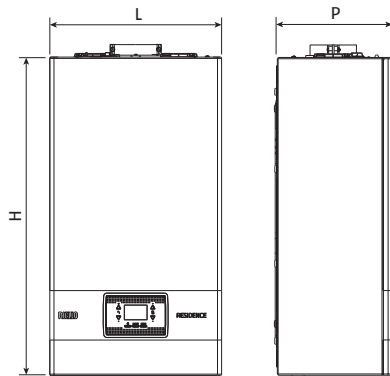
(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.

(1) Wi-Fi box included to connect to the home Wi-Fi.

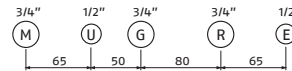
(2) Compatible with RF connection to the Wi-Fi box, cod. 2011885 (accessory not included, necessary to connect to the home Wi-Fi).

Wall-hung condensing boilers

Residence



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- Stainless steel primary heat exchanger
- Self-adaptive electronic combustion control
- Class 6 NOx
- Combi and heating only models, NG and LPG compatible

Description	H mm	L mm	P mm	Net weight kg
RESIDENCE 25 KIS	740	420	275	35
RESIDENCE 30 KIS	740	420	350	37
RESIDENCE 35 KIS	740	420	350	37
RESIDENCE 40 KIS	740	420	350	40
RESIDENCE 20 IS	740	420	275	34
RESIDENCE 35 IS	740	420	350	36

Overall height of the SRD device: 822 mm

Residence is the Riello wall-hung condensing boiler that is ideal as a replacement and for new installations. The primary heat exchanger, which is made of stainless steel on the inside and with front access to the combustion chamber, provides maximum efficiency and reliability over time.

Residence comes with outputs of 20, 25, 30, 35 and 40 kW, in instantaneous combi or heating only versions.

- ACC adaptive electronic combustion control
- Range Rated type-approval
- New simple and intuitive digital control panel with backlit display
- Low consumption modulating circulator
- Modulation ratio 8:1
- Flue gases flange as standard with dedicated flue system
- Check valve and SRD device as standard
- Thermoregulation as standard in combination with the outdoor temperature sensor, available as an accessory
- Possibility also of recessed installation (model 25 KIS) and outdoors in partially protected places (IPX5D)
- Easy to install and a wide range of accessories
- Integrated management of up to 2 direct or mixed circuits (with BAG³ HYBRID accessories or zone management kit)



NEW INOX HEAT EXCHANGER



COMPATIBLE WITH RICLOUD



LOW EMISSIONS (CLASS 6 NOx RATING) AND HIGH EFFICIENCY



AUTO-ADAPTIVE COMBUSTION CONTROL



INTUITIVE CONTROL



COMPACT DIMENSIONS



QUICK INSTALLATION

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production ΔT 25° l/min	Energy efficiency class		Notes	Code
		P _n (50°/30 °C) %	30% P _n (return 30 °C) %					
COMBI HEATING AND INSTANTANEOUS DOMESTIC HOT WATER VERSION								
RESIDENCE 25 KIS	3,6-20,0/3,6-25,0	106,2	108,4	15,1			(1)	20139525
RESIDENCE 30 KIS	4,9-25,0/4,9-30,0	106,0	108,1	18,1			(1)	20148496
RESIDENCE 35 KIS	4,9-30,0/4,9-34,6	106,9	108,2	20,8			(1)	20139527
RESIDENCE 40 KIS	4,9-30,0/4,9-40,0	106,9	108,2	24,1			(1)	20139530
ONLY HEATING VERSION								
RESIDENCE 20 IS	3,6-20,0/3,6-20,0	106,2	108,4	-		-	(1)	20139526
RESIDENCE 35 IS	4,9-30,0/4,9-34,6	106,9	108,2	-		-	(1)	20139528

(1) The outdoor temperature sensor is not supplied as standard (code 1220559 available as an accessory)

ACCESSORIES

Description	Notes	Code
ELECTRICAL ACCESSORIES		
Kit for managing second pump or zone valves		20062614
Anti-freeze resistors kit for combi versions		20145304
Anti-freeze resistors kit for heating only versions		20145305
External probe		1220559
Immersion probe for remote storage cylinder (for heating only version)		1220599
FLUES AND INTAKE AIR		
Wall collector \varnothing 60/100 mm		20129175
Telescopic wall collector \varnothing 60/100 mm		20129176
Vertical collector \varnothing 60/100 mm		20129177
Adaptor kit B23 \varnothing 80 mm		20129769
90° boiler start bend kit \varnothing 60/100 mm		20129172
Splitter device kit B23 \varnothing 80 mm for in-wall installation box		20129768
Adjustable splitter device kit from \varnothing 60/100 mm to \varnothing 80/80 mm		20134830
Fixed splitter system kit \varnothing 80 mm		20129765
Vertical connection manifold kit \varnothing 60/100 mm	(2)	20129174
HYDRAULIC ACCESSORIES		
Condensate evacuation pump	(3)	20097192
High head circulator		20105883
Polyphosphates doser kit		20135496
Magnetic filter and polyphosphates doser kit		20135495
First zone management kit (MIX or DIR zone)	(4)	20132795
Additional zone management kit (MIX or DIR zone)	(4)(5)	20132796
Connections kit with heating system and gas taps (for IS models)		20133517
Connections kit with heating system, domestic hot water and gas taps (for IS models)		20133516
Connections kit with domestic hot water and gas taps (for KIS models)		20132005
Connections kit with gas tap (for IS models)		20133386
Kit with system and gas taps for recessed installation (only model 25 KIS)		20137668
Solar diverter valve kit for instantaneous wall-hung combi boilers		20025113
MECHANICAL ACCESSORIES		
In-wall installation unit (only model 25 KIS)	(1)	20082310

(1) Unit supplied complete with door

(2) Code necessary for vertical discharge with flue system \varnothing 60/100. Accessory already included in the kit 20129177

(3) Code necessary for horizontal discharge with flue system \varnothing 60/100. Accessory already included in the kit 20129175 and 20129176

(4) allows you to manage a MIX zone (pump + 3-point mixer valve) or DIR zone (only pump). Not necessary for BAG³ HYBRID

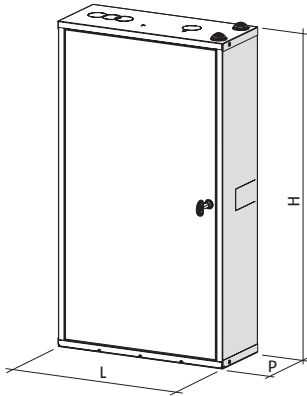
(5) The first zone management kit should always be present. The boiler can manage up to a maximum of 2 zones in total.

(*) **Dedicated flue gases accessories, compatible with the Residence flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue**

HYDRAULIC DISTRIBUTION MODULES

Description	Zone management	Notes	Code
BAG ³ HYBRID 1D	1 direct zone	(1)(2)	20130805
BAG ³ HYBRID 2D	2 direct zone	(1)(2)	20130806
BAG ³ HYBRID 1D+1M	1 direct zone + 1 mixed zone	(1)(3)	20130807
IN-WALL INSTALLATION BOX		(4)	20130808

- (1) Supplied without in-wall installation box
- (2) Equipped as standard with limit thermostat for low temperature systems
- (3) Mixed zone equipped as standard with limit thermostat for low temperature systems
- (4) In-wall installation box made of galvanised sheet metal that can be painted white; the box is compulsory for the installation of the BAG³ HYBRID



Description	H mm	L mm	P mm	Net weight kg
BAG ³ HYBRID 1D	797	400	160	17
BAG ³ HYBRID 2D	797	400	160	18
BAG ³ HYBRID 1D+1M	797	400	160	18
IN-WALL INSTALLATION BOX	797	400	160	8

ACCESSORIES FOR BAG³ HYBRID

Description	Code
Taps kit for BAG ³ HYBRID system side and heat pump	20131752

RiCLOUD SMART REMOTE CONTROL

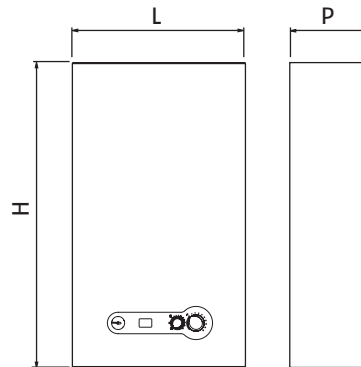
RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

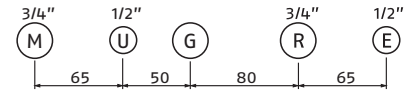
- (*) Possibility of only ON/OFF connection on BAG³ HYBRID
- (1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem.
- (2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Condensing wall-hung boilers

Start Condens



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing boiler with aluminum heat exchanger and premix burner
- Only heating and combi models for indoor applications

Description	H mm	L mm	P mm	Net weight kg
START CONDENS 25 KIS	715	405	248	27
START CONDENS 29 KIS	715	405	248	28
START CONDENS 25 IS	715	405	248	26

Start Condens is the new wall-hung condensing boiler for small and mid-sized residential users. The new condensing aluminum heat exchanger allows to reach high efficiency and to reduce polluting emissions. Available with 25 and 29 kW outputs.

- High efficiency circulator (EEI $\leq 0,20$)
- Pre-heating function: if activated by the user, allows to reduce the waiting period for sanitary water
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance
- Hydraulic fittings and cover as optionals

TECHNICAL DATA


Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production $\Delta T 25^\circ$ l/min	Fuel	Energy efficiency class		Code
		Pn (50°/30 °C) %	30% Pn (return 30 °C) %					
ROOM SEALED – HEATING AND DHW PRODUCTION								
START CONDENS 25 KIS	5,0-20,0/5,0-25,0	104,2	108,9	14,3	NG	A	A	20114905
START CONDENS 29 KIS	6,0-25,0/6,0-29,0	104,9	108,4	16,6	NG	A	A	20114907
ROOM SEALED – HEATING ONLY								
START CONDENS 25 IS	5,0-20,0/5,0-25,0	104,2	108,9	-	NG	A	-	20114910

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit for 25 IS model	20083270
LPG conversion kit for 29 KIS model	20113798
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
High head circulator	20105883
Hydraulic connections kit	20051979
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
SAFETY ACCESSORIES	
Limit thermostat for low temperature installations	1220639
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	20012594
Mounting template kit (10 pieces)	20017311

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.

(1) Wi-Fi box included to connect to the home Wi-Fi.

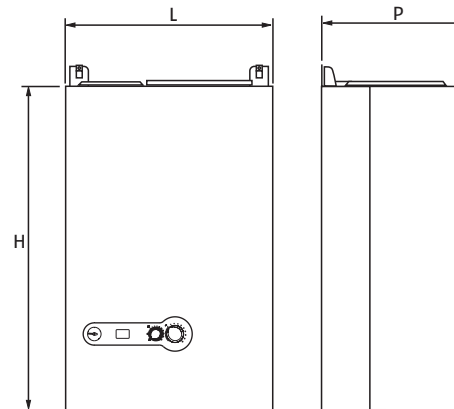
(2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

Condensing wall-hung boilers

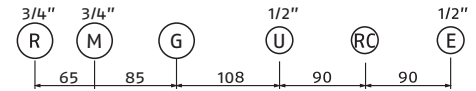
Start Aqua Condens



- In conformity with Directive 2009/125/EC
- Low polluting emissions
- Condensing aluminum heat exchanger and premix burner
- Combi model with 45 or 60 liters stainless steel DHW tank



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START AQUA CONDENS 25/45 BIS	940	600	450	66
START AQUA CONDENS 25/60 BIS	940	600	450	70

Start Aqua Condens is a condensing wall-hung boiler featuring a 45 or 60 liters stainless steel DHW tank. The Riello heat exchanger, aluminum made, guarantees efficiency, durability, high head and polluting emissions reduction. Start Aqua Condens is available with 25 kW output.

- High efficiency circulator (EEI ≤ 0,20)
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (spare-part optional), to be mounted by the technical assistance

TECHNICAL DATA


Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
		P _n (50°/30 °C) %	30% P _n (return 30 °C) %					
ROOM SEALED – HEATING AND DHW PRODUCTION WITH TANK								
START AQUA CONDENS 25/45 BIS	6,0-25,0	105,0	107,1	14,3	NG			20142452

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit	20002606
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
DHW recirculation kit (Aqua model)	4047994
High head pump kit	20105879
MECHANICAL ACCESSORIES	
Hydraulic connection cover	4047505
Mounting template kit	4047440

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

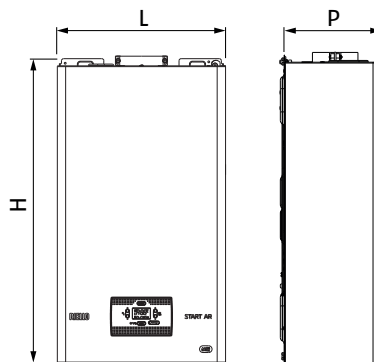
(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.

(1) Wi-Fi box included to connect to the home Wi-Fi.

(2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

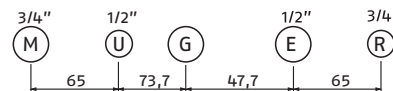
Wall-hung condensing boilers

Start AR **NEW**



- In conformity with Directive 2009/125/CE
- Combi models
- Low NOx emissions
- Innovative post heat-exchanger in stainless steel material

M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
START AR 25 KIS	715	405	250	33

New START AR is the condensing boiler designed specifically to operate with high temperature systems and therefore with radiator systems. Furthermore improved in terms of performances it's available with 25 kW outputs with low NOx emissions < 56 mg/kWh.

- New digital interface
- Very compact dimensions
- Innovative gas-air combustion system
- DIN hydraulic connection
- Cooled burner
- Low consumption circulator (IEE ≤ 0.20)
- Climatic adjustment managed directly from the control box
- Fixing crossbar, electrical power cable supplied as standard
- Hydraulic connection available as accessories
- Electric protection level IPX5D

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
		Pn (80°/60 °C) %	30% Pn (return 30 °C) %					
VERSION WITH GAS-TIGHT CHAMBER AND FORCED DRAUGHT-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER								
START AR 25 KIS	7,5÷25,0/7,5÷25,0	95,8	101,4	14,3	NG	B	A	20171062
START AR 25 KIS	7,5÷25,0/7,5÷25,0	95,8	101,4	14,3	LPG	B	A	20176940


ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Hydraulic connections kit		20114510
Central heating taps		4047476
Central heating taps with filter		4047475
Connections kit with heating system, domestic hot water and gas taps		20133516
Connections kit with domestic hot water and gas taps		20132005
Magnetic filter and polyphosphates doser kit		20135495
Polyphosphates doser kit		20135496
Condensate evacuation pump		20097192
Ultra high head pump (7 metres)		20178827
Solar diverter valve kit for instant wall-hung combined boilers		20035644
ELECTRICAL ACCESSORIES		
External probe		1220559
Frost protection kit		20183138
MECHANICAL ACCESSORIES		
Hydraulic fittings cover		20012594
Upper cover		20012595
LPG transformation kit		20182988
In-wall box	(1)	20082309
FLUES AND INTAKE AIR (*)		
Adjustable splitter device kit from Ø60/100 mm to Ø80/80 mm		20134830
Wall collector Ø60/100 mm		20129175
Telescopic wall collector Ø60/100 mm		20129176
Vertical collector Ø60/100 mm		20129177
Vertical connection manifold kit Ø60/100 mm	(2)	20129174
90° boiler start bend kit Ø60/100 mm	(3)	20129172
Adaptor kit B23 Ø80 mm		20129769

- (1) Unit supplied complete with door.
- (2) Code necessary for vertical discharge with flue system Ø60/100. Accessory already included in the kit 20129177.
- (3) Code necessary for horizontal discharge with flue system Ø60/100. Accessory already included in the kit 20129175 and 20129176.
- (*) **Dedicated flue gases accessories, compatible with the Start AR flange. For further accessories for the flue gas exhaust system, see the section "Flue gas exhaust systems" in the Catalogue.**

RiCLOUD SMART REMOTE CONTROL

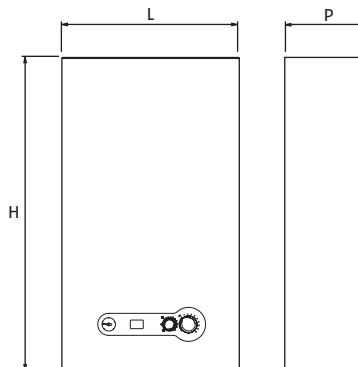
RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

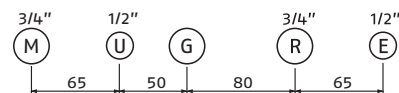
- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.
- (1) Wi-Fi box included to connect to the home Wi-Fi.
- (2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

Wall-hung condensing boilers

Start AR



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- In conformity with Directive 2009/125/EC
- Combi models
- Low NOx emissions

Description	H mm	L mm	P mm	Net weight kg
START AR 25 KIS	780	400	332	37
START AR 29 KIS	780	400	332	38

Start AR is the condensing boiler designed specifically to operate with high temperatures and therefore with radiator systems. It is available with 25 and 29 kW outputs with low NOx emissions <56 mg/kWh.

- Cooled burner
- Low consumption circulator (IEE≤0.20)
- Climatic adjustment managed directly from the boiler control box
- Assembly crossbar, electrical power cable supplied
- Hydraulic connections available as an accessory
- Electric protection level IPX5D
- LPG conversion kit (as optional)

TECHNICAL DATA


Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
		Pn (80°/60 °C) %	30% Pn (return 30 °C) %					
VERSION WITH GAS-TIGHT CHAMBER AND FORCED DRAUGHT-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER								
START AR 25 KIS	12,5-25,0/12,5-25,0	95,4	100,6	14,3	NG	B	A	20151671
START AR 25 KIS	12,5-25,0/12,5-25,0	95,4	100,6	14,3	LPG	B	A	20151785
START AR 29 KIS	14,0-28,0/14,0-28,0	95,8	100,6	16,1	NG	B	A	20151818

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
External probe	1220559
Kit for managing second pump or zone valves	20062614
Condensate boiler-syphon anti-freeze resistors kit	20164830
Tray anti-freeze resistors kit	20164831
FUEL ACCESSORIES	
Start AR 25/29 KIS LPG conversion kit	20157499
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Condensate evacuation pump	20097192
High head pump kit	20105879
Polyphosphates doser kit	20135496
Magnetic filter and polyphosphates doser kit	20135495
Hydraulic connections kit	20114510
Condensation neutralisation tray kit	20102924
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
MECHANICAL ACCESSORIES	
Lower cover kit (not to be used when using the condensation tray kit)	20116879
Outdoor upper cover kit (partially protected place)	20105784

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of connecting via OTBus or in ON/OFF

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem

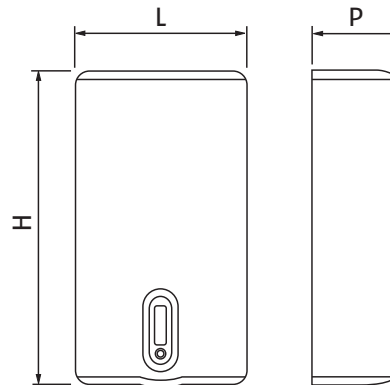
(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Wall-hung condensing boilers

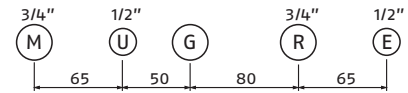
Family Externa Condens



- Compliant with Directive 2009/125/EC
- Low polluting emissions
- Aluminium condensing, with premixed burner
- Combined models for outdoor open-air installation



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



Description	H mm	L mm	P mm	Net weight kg
FAMILY EXTERNA CONDENS 3.0 KIS	1002	475	311	50

Family Externa Condens is a wall-hung outdoor boiler that can be installed in open air. The new primary heat exchanger fully made of aluminium with front accessibility to the combustion chamber ensures better efficiency and durability. It is available with output from 3.2 to 30 kW.

- 1:10 modulation ratio (minimum output 3.2 kW) that allows the boiler to respond to all heat requests
- Modulating circulator, low consumption ($IEE \leq 0.20$)
- Family Remote Control, supplied as standard, allows management of all boiler functions directly from inside the house
- Anti-freeze down to -15°C
- Alarm remote system that allows remote signalling of the boiler block status
- Family special functions: Well-being Button, Memory Button, Touch&Go Function, Intelligent system refilling
- External probe as standard
- IPX5D electrical protection level

TECHNICAL DATA

Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production $\Delta T 25^{\circ}$ l/min	Fuel	Energy efficiency class		Code
		Pn ($50^{\circ}/30^{\circ}\text{C}$) %	30% Pn (return 30°C) %					
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION								
FAMILY EXTERNA CONDENS 3.0 KIS	3,2÷25,0/3,2÷30,0	106,8	109,6	17,2	NG			20102940
FAMILY EXTERNA CONDENS 3.0 KIS	4,5÷25,0/4,5÷30,0	104,8	107,5	17,2	LPG			20104000

ACCESSORIES

Description	Notes	Code
Zone valves management kit		20165142
Central heating taps with filter		4047475
Central heating taps		4047476
Wall fittings kit		4047255
Condensate evacuation pump		20097192
Room sensor kit		20163783
Solar diverter valve kit for instant wall-hung combined boilers		20035644
Remote alarm kit		20165627
Interface board ITRF11	(1)	20164477

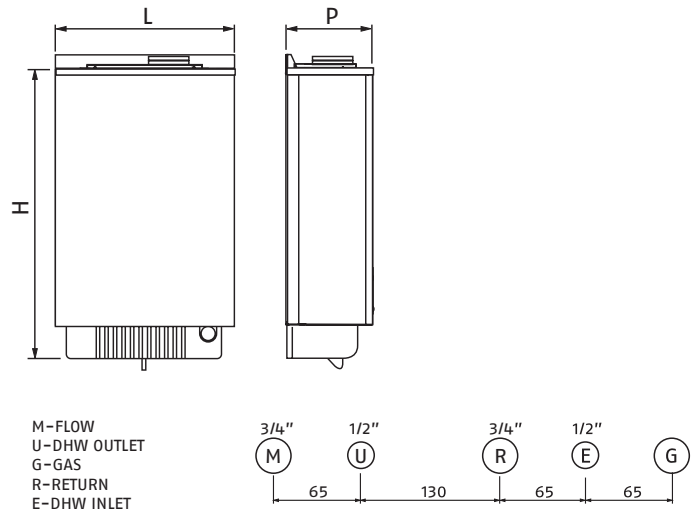
(1) Necessary in case of installation of Family Externa Condens in combination with BAG³ MIX CLIMA and BAG³ 2 MIX CLIMA: it manages high and low temperature zones according to the boiler delivery temperature.

Wall-hung condensing boilers

Residence Externa Condens



- Compliant with Directive 2009/125/EC
- Low polluting emissions
- Aluminium condensing, with premixed burner
- Heating-only models and combined models for outdoor installation



Description	H mm	L mm	P mm	Net weight kg
RESIDENCE EXTERNA CONDENS 25 KIS	785	553	275	44
RESIDENCE EXTERNA CONDENS 32 KIS	785	553	275	46

Residence Externa Condens is specially designed for outdoor installation in a partially protected place. The new primary heat exchanger fully made of aluminium with front accessibility to the combustion chamber ensures better efficiency and durability. Residence Externa Condens is available with output from 25 to 32 kW.

- Remote control panel supplied as standard
- 1:8 modulation ratio that allows the boiler to respond to all heat requests
- Self-modulating circulator, low consumption (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic water circuits down to -5 °C with the possibility of extending the protection down to -15 °C (optional)
- "Winter with Pre-heating" function: allows you to keep the domestic water exchanger at the right temperature, reducing the waiting time during extraction (instantaneous combined models)
- Possible "open air" installation by means of the special sealed kit (optional)
- Thermoregulation as standard in the board in combination with the external probe (optional)
- Assembling template, hydraulic connection and power cable included
- IPX5D electrical protection level



RESIDENCE EXTERNA CONDENS

+



RiCLOUD WI-FI*

=









SYSTEM WITH SUPERIOR ENERGY EFFICIENCY **

* Connected via BUS with the boiler + Temp. Ext from the internet

** Class A+ is also obtained by combining the boiler with a remote control and the external probe

TECHNICAL DATA


Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production $\Delta T 25^\circ$ l/min	Fuel	Energy efficiency class		Code
		Pn (50°/30°C) %	30% Pn (return 30°C) %					
VERSION WITH SEALED CHAMBER AND FORCED DRAUGHT-HEATING AND DOMESTIC HOT WATER PRODUCTION								
RESIDENCE EXTERNA CONDENS 25 KIS	3,1÷20,0/3,1÷25,0	105,0	109,6	14,3	NG			20096734
RESIDENCE EXTERNA CONDENS 32 KIS	3,7÷30,0/3,7÷32,0	104,7	109,5	18,3	NG			20096735

ACCESSORIES

Description	Code
Heating system tap kit	4047252
Antifreeze heater kit KIS version	20164827
Antifreeze heater kit IS version	20164828
Open-air installation kit	20011638
External probe	1220559
Condensate evacuation pump	20097192
Kit for managing second pump or zone valves	20062614
Immersion probe for remote storage cylinder (for heating only version)	1220599
Solar diverter valve kit for instant wall-hung combined boilers	20035644
LPG conversion kit Residence Externa Condens 25 KIS-20 IS	20102669
LPG conversion kit Residence Externa Condens 32 KIS	20102674
Propane air transformation kit Residence Externa Condens 25 KIS	20102673
Caplet kit	20162838

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Possibility of connecting via OTBus or in ON/OFF






(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

STANDARD-EFFICIENCY WALL-HUNG BOILERS



INDOOR

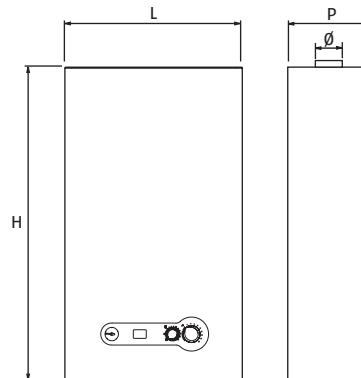
KI	MONOTHERMIC	 <p>START LN START 24 KI LN (10,7-26,7/19,0-26,7 kW) START 28 KI LN (14,0-31,9/19,0-31,9 kW)</p> <p>page 96</p>	 <p>START START 28 KI (8,7-28,6 kW)</p> <p>page 98</p>
	BITHERMIC		 <p>FASTECH FASTECH 24 KI (8,0-24,6 kW)</p> <p>page 100</p>
KIS	MONOTHERMIC		 <p>START START 24 KIS (7,5-24,0 kW) START 28 KIS (11,0-27,9 kW) START 35 KIS (10,8-34,9 kW)</p> <p>page 98</p>
	BITHERMIC		 <p>FASTECH FASTECH 24 KIS (7,5-23,9 kW)</p> <p>page 100</p>

KI Combi: Heating and DHW Production – conventional flue
KIS Combi: Heating and DHW Production – room sealed

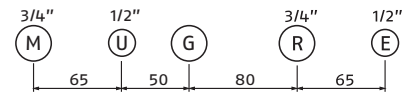
* The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

Standard wall-hung boilers

Start LN



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- Open chamber
- Combi model
- Only for replacement on CCR
- Low NOx emissions

Description	H mm	L mm	P mm	Ø mm	Net weight kg
START 24 KI LN	740	400	332	130	30
START 28 KI LN	740	450	332	140	32

Start LN has a simple modern that is ideal for heating and the production of domestic hot water in small and medium size households. Start LN is available with 24 and 28 kW outputs with low NOx emissions <56 mg/kWh.

- Double heat exchanger: domestic hot water production with plate heat exchanger to minimise the formation of limescale
- CTR system for a rapid attainment of the desired comfort and a reduction in consumption, and temperature changes in the heating bodies
- 8 litre expansion tank
- Low consumption circulator (IEE≤0.20)
- Anti-freeze function that protects the heating and domestic hot water circuits down to 0 °C
- Thermoregulation as standard in boiler board in combination with the outdoor temperature sensor (optional)
- Can interface with the Remote Control Panel
- Hydraulic connections available as an accessory kit
- Operation with methane as standard with the possibility of conversion to LPG (G31), this modification is done by the installer or the technical assistance centre
- Electric protection level IPX5D

TECHNICAL DATA


Description	Heat input Heating/DHW min-max kW	Useful efficiency		DHW production ΔT 25° l/min	Fuel	Energy efficiency class		Code
		P _n (80°/60 °C) %	30% P _n (rit. 50 °C) %					
VERSION WITH OPEN CHAMBER-HEATING AND PRODUCTION OF BOILER DOMESTIC HOT WATER								
START 24 KI LN	10,7-26,7/9,0-26,7	90,1	89,2	13,8	NG			20151434
START 28 KI LN	14,0-31,9/9,0-31,9	90,5	89,5	16,6	NG			20151435

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit for Start 24 KI LN model	20155079
LPG conversion kit for Start 28 KI LN model	20155101
ELECTRICAL ACCESSORIES	
External probe	1220559
Kit for managing second pump or zone valves	20062614
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
High head pump kit	20105879
Polyphosphates doser kit	20135496
Magnetic filter and polyphosphates doser kit	20135495
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

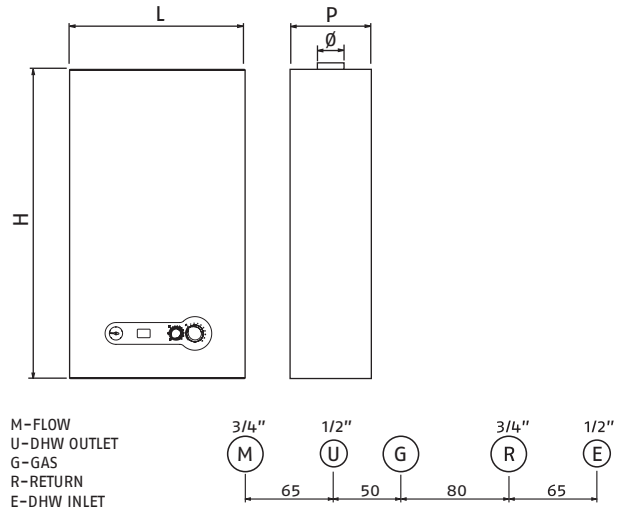
(*) Possibility of connecting via OTBus or in ON/OFF

(1) With Wi-Fi box included for connection to the Internet using the home ADSL Wi-Fi modem

(2) For the OTBus cable connection to the boiler. Compatible for RF connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL Wi-Fi modem) and compatible with receiver 20117359.

Standard efficiency wall-hung boilers

Start



- Conventional flue and room-sealed models
- Models: heating-only and combi
- Digital display

Description	H mm	L mm	P mm	Ø mm	Net weight kg
START 24 KIS	715	405	248	-	31
START 28 KIS	740	400	328	-	33
START 35 KIS	780	505	328	-	42
START 28 KI	740	450	328	140	30

The Start range features a modern and functional design completed by a digital screen including essential information. The stylish casing, the compact size and special finishing details allows its installation into any setting. The new Start is available both conventional flue and room sealed with 24, 28 and 35 kW output with heating only or heating and DHW production models.

- Double-heat exchanger (CH and DHW stainless steel plate heat-exchangers)
- CTR system to achieve faster desired comfort and reduce fuel consumption
- Frost protection function which protects the heating and DHW circuits down to $-3\text{ }^{\circ}\text{C}$, with the possibility of extending protection down to $-10\text{ }^{\circ}\text{C}$ (as optional)
- Thermoregulation control supplied as standard fitted with the external probe (as optional).

TECHNICAL DATA


Description	Output 80°/60° min - max kW	Efficiency Pn (80°/60°) %	Efficiency Pn 30% (47 °C return) %	DHW production (Δt 25°) l/min	Fuel	Code
ROOM-SEALED - HEATING AND DHW PRODUCTION						
START 24 KIS	7,5-24,0	92,8	91,8	13,7	NG	20122798
START 28 KIS	11,0-27,9	93,0	91,9	16,0	NG	20122801
START 35 KIS	10,8-34,9	92,9	92,5	20,0	NG	20122802
CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION						
START 28 KI	8,7-28,6	92,4	89,4	16,4	NG	20122800

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for START 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

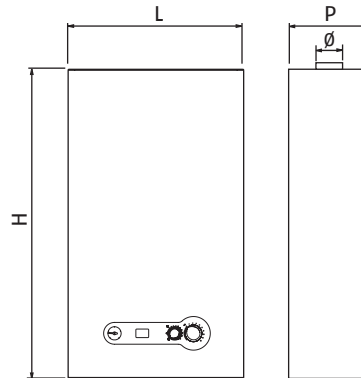
(*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.

(1) Wi-Fi box included to connect to the home Wi-Fi.

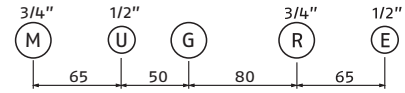
(2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

Standard efficiency wall-hung boilers

Fastech



M-FLOW
U-DHW OUTLET
G-GAS
R-RETURN
E-DHW INLET



- Conventional flue and room sealed models
- Combi boiler

Description	H mm	L mm	P mm	Ø mm	Net weight kg
FASTECH 24 KI	740	400	332	130	30
FASTECH 24 KIS	715	405	248	-	28

Fastech is the new wall-hung boiler dedicated to new housing. Featuring a modern and essential design, Fastech satisfies the heating and DHW demand of small and mid-sized houses. Fastech is available with 24 kW output.

- High-efficiency, bithermic copper heat-exchanger
- The CTR system allows to reach faster the desired temperature and to reduce consumption, limestone production inside the boiler and thermic variations in the heating terminals
- 8 liters expansion vessel
- Frost protection of the heating and sanitary circuits
- Thermoregulation control supplied as standard fitted with the external probe (as optional)
- Remote Control Panel to be interfaced
- IPX5D electrical protection rating
- Arranged system for the use of natural gas, which can be converted to LPG through the specific kit (optional), to be mounted by the technical assistance

TECHNICAL DATA


Description	Output 80°/60° min - max kW	Efficiency Pn (80°/60°) %	Efficiency P30% %	DHW production (At 25°) l/min	Fuel	Code
CONVENTIONAL FLUE - HEATING AND DHW PRODUCTION						
FASTECH 24 KI	8,0-24,6	92,0	90,8	14,1	NG	20122804
ROOM SEALED - HEATING AND DHW PRODUCTION						
FASTECH 24 KIS	7,5-23,9	92,8	91,8	13,7	NG	20122807

ACCESSORIES

Description	Code
CONTROL DEVICES	
CHRONORIELLO 7D (7-day digital room thermostat)	20063873
CHRONORIELLO 7D WIRELESS (7-day digital room thermostat wireless)	20101747
COMBUSTION ACCESSORIES	
LPG conversion kit (for FASTECH 24 KI)	20015587
LPG conversion kit (for FASTECH 24 KIS)	20015586
ELECTRICAL ACCESSORIES	
External probe	1220559
Zone valves management kit	20000785
HYDRAULIC ACCESSORIES	
Central heating taps	4047476
Central heating taps with filter	4047475
Solar diverter valve kit for instantaneous wall-hung combi boilers	20025113
Top hydraulic fittings kit	20008795
MECHANICAL ACCESSORIES	
Hydraulic fittings cover	20012594
Mounting template kit for 24 KIS model (10 pcs)	20017311

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- (*) Functions available only in case of OTBus connection with a Riello boiler. Possibility to connect to generic boilers and other devices only in ON-OFF mode.
- (1) Wi-Fi box included to connect to the home Wi-Fi.
- (2) Compatible with RF connection to the Wi-Fi box, cod. 20111885 (accessory not included, necessary to connect to the home Wi-Fi).

SYSTEM COMPLEMENTARY ITEMS



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING

AIR
CONDITIONING

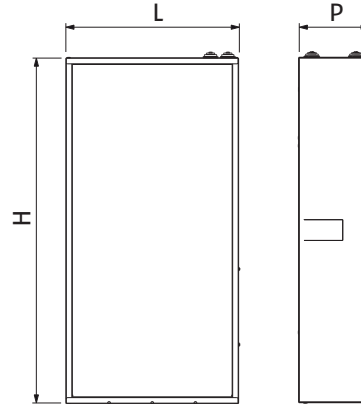
TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

System complementary items

Bag³ Hybrid



- Manageable via Modbus by boilers and heat pumps with REC10 control panel
- Setting of independent climatic curves for each zone
- Motorized mixing valves on mix zone
- Low-consumption self-modulating circulators

Description	H mm	L mm	P mm	Net weight kg
BAG³ HYBRID 1D	797	400	160	8,8
BAG³ HYBRID 2D	797	400	160	11,2
BAG³ HYBRID 1D+1M	797	400	160	12,4
BUILT-IN BOX	797	400	160	8,0

The distribution BAG³ is a specific accessory designed for hybrid systems intended for pairing with wall-hung and floor-standing boilers with versions for recessed or outdoor installation (IPX5D electrical protection).

- External housing that groups all components in galvanised sheet metal, for recessed or wall-hung installation
- Distribution collector (mixture bottle)
- Low-consumption self-modulating circulators
- Motorized mixing valve on the mixed zone
- Setting of independent climatic curves for each zone
- To be paired with REC10 H hybrid system control
- Possible connection of zone thermostats

With BAG³ the hybrid systems can be expanded with the addition of:

- single coil domestic hot water heater for pre-heating by the heat pump
- solar thermal collectors, solar circulation pump and electronic kit for solar thermal management
- interface with photovoltaic system to favour the use of the electrical source
- double coil domestic hot water heater for pre-heating by a solar thermal system and the heat pump.

TECHNICAL DATA

Description	Notes	Code
OUTDOOR RECESSED VERSIONS		
BAG³ HYBRID 1D	(1)	20130805
BAG³ HYBRID 2D	(1)	20130806
BAG³ HYBRID 1D+1M	(1)(2)	20130807
BOX DA INCASSO		20130808

To install the module, it is necessary to purchase the built-in BOX code 20130808.

(1) Refer to the hybrid system section of the catalogue for compatible boiler pairing.

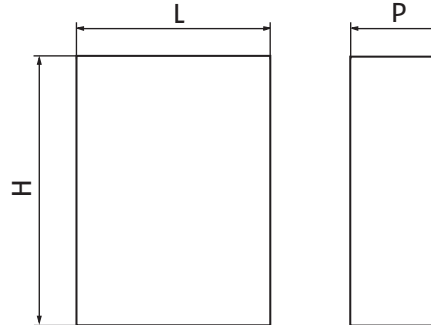
(2) Limit thermostat on mixed zone only.

ACCESSORIES

Description	Code
Cock kit for BAG ³ HYBRID on system and heat pump side	20131752

System complementary items

Bag³



- Hydraulic separator
- Low-energy circulators

Description	H mm	L mm	P mm	Net weight kg
BAG³ AP – BAG³ 2 AP – BAG³ 3 AP	720	400	160	10, 12, 14
BAG³ MIX BASIC – BAG³ MIX CLIMA	720	400	160	16
BAG³ 2 MIX BASIC – BAG³ 2 MIX CLIMA	720	400	160	17
BAG³ MIX FAMILY COND	616	440	160	16
IN-WALL INSTALLATION BOX	720	400	160	6

BAG hydraulic separator is an accessory to be matched with wall-hung and floor-standing boilers that can be installed outdoor or in a in-wall place.

- BAG³ for high-flow rate direct circuit (1, 2 or 3 zones) works as a hydraulic separator between boiler and high-flow rate circuits. Equipped with self modulating energy-efficient circulators.
- BAG³ MIX and BAG³ 2 MIX for high-flow rate direct and mixed circuits, work as hydraulic separators between boiler and double or triple temperature circuits. Equipped with self modulating energy-efficient circulators.
- BAG³ MIX Family Condens for direct and mixed circuit: mixing valve and mixed circuit pump are controlled by the electronic board supplied as standard, that can be located inside the boiler.
- Energy-efficient circulators
- Suitable for in-wall and outdoor installation
- Galvanized sheet that can be white painted
- BAG³ and BAG³ M are supplied as standard with limit thermostat for low temperature circuits.

TECHNICAL DATA

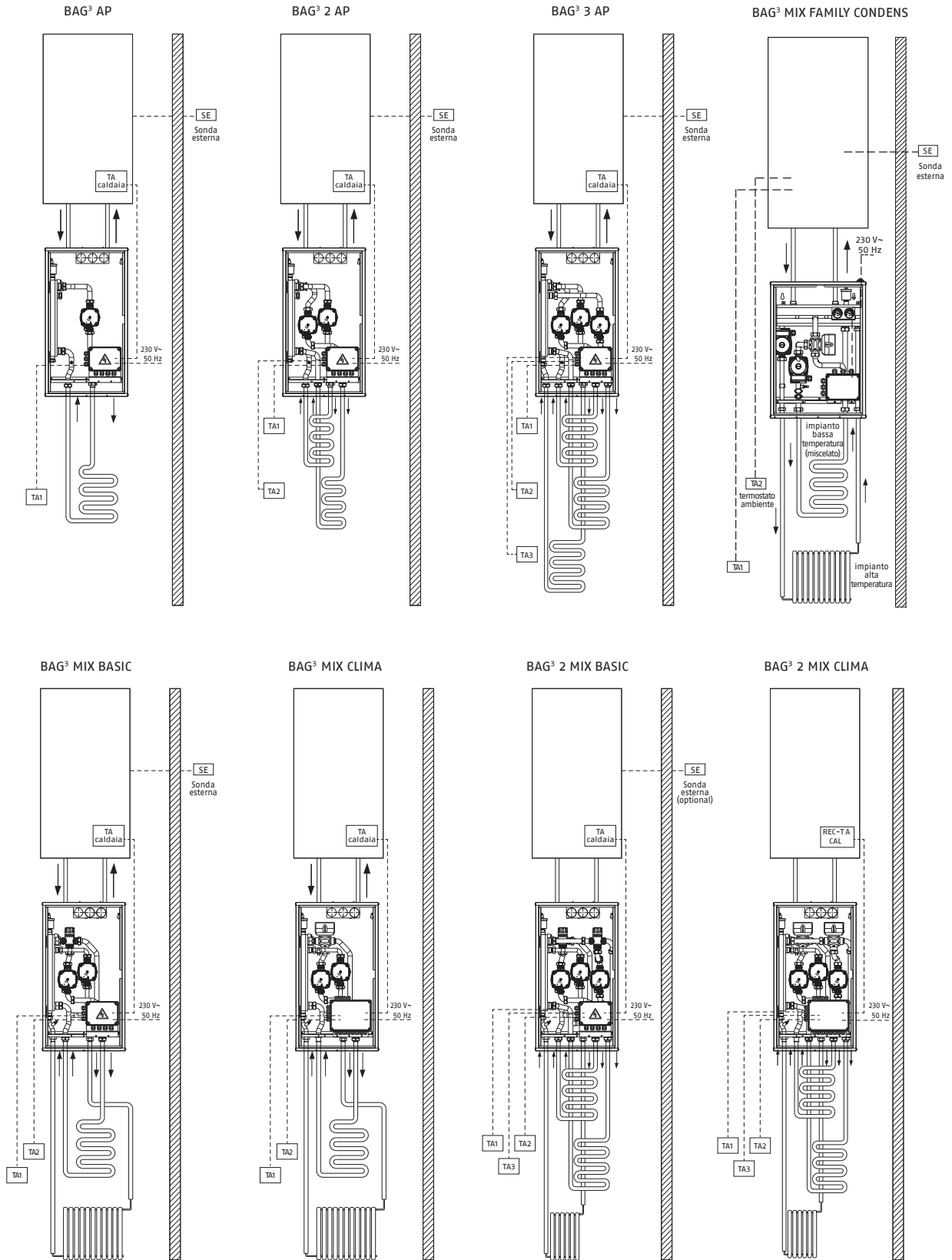
Description	Notes	Code
VERSION FOR OUTDOOR IN-WALL INSTALLATION		
BAG ³ AP	(1)	20082277
BAG ³ 2 AP	(1)	20082280
BAG ³ 3 AP	(1)	20082282
BAG ³ MIX BASIC	(1)	20082286
BAG ³ MIX CLIMA	(1)	20082283
BAG ³ 2 MIX BASIC	(1)	20082288
BAG ³ 2 MIX CLIMA	(1)	20082284
BAG ³ MIX FAMILY CONDENS	(2)	20102824
IN-WALL INSTALLATION BOX		20007305

(1) Supplied without in-wall installation box
 (2) Supplied with in-wall installation box

ACCESSORIES

Description	Notes	Code
Interface board ITRF11	(1)	20164477
Insulation kit for in-wall installation box		20085456

(1) It is necessary in case of installation of BAG³ MIX CLIMA (20082283 code) and BAG³ 2 MIX CLIMA (20082284 code) with Family Aqua Condens, Family Externa Condens and Family In Condens to manage high and low temperature circuits according to the boiler flow temperature.



FLUE OPTIONS SYSTEM



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING





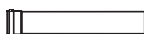
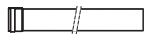
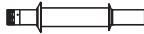

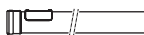

AIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material					Notes	Code
			Family Aqua Condens	Start Condens	Start Aqua Condens	Start AR		
	Ø80 mm twin system kit	Met	•	•	•	•	(1)(3)	1221099
	Flue adapter Ø80 mm with air inlet	Met	•		•		(1)(3)	1221089
	45° Ø80 mm bend	Met	•	•	•	•	(1)(3)	1221059
	90° Ø80 mm bend	Met	•	•	•	•	(1)(3)	1221049
	Extension 50 cm Ø80 mm	Met	•	•	•	•	(1)(3)	1221019
	Extension 100 cm Ø80 mm	Met	•	•	•	•	(1)(3)	1221029
	Horizontal flue terminal Ø80 mm	Met	•	•	•	•	(1)(3)	1221009
	Spacers for pipe Ø80 mm	Met	•	•	•	•		20137532
	Ø80 mm inspection extension	Met	•	•	•	•	(1)(3)	1221079
	90° bend with inspection door Ø80 mm	Met	•	•	•	•	(1)(3)	20162297






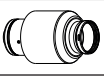


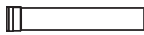
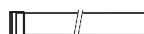
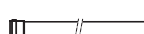
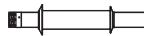


(1) P1 pressure level according to EN 1443

(3) Until stocks are exhausted

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PLASTIC Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)							Notes	Code
			Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR		
	Adjustable splitter device kit from Ø60/100 mm to Ø80/-80 mm	PP	•		•				(2)	20134830
	Fixed twin system Ø80 mm kit	PP	•		•				(2)	20129765
	Splitter device kit B23 Ø80 mm for in-wall installation box	PP	•		•				(2)	20129768
	Twin system Ø80 mm kit Start Condens	PP	•		•	•			(2)	20137501
	Ø80 mm twin system kit	PP		•				•	(2)	20137523
	Flue gas exhaust kit B23 Ø80 mm	PP	•		•				(2)	20129769
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20137503
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20137506
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137508
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137509
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20137511
	Horizontal flue collector Ø80 mm	PP	•	•	•	•	•	•	(2)	20137517
	Horizontal air inlet collector Ø80 mm	PP	•	•	•	•	•	•	(2)	20137515
	Ø80 mm clapet with condensate trap	PP	•	•	•	•	•	•	(2)	20044862




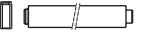
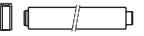

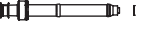

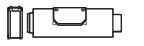



(*) PP material: colour may change over time because of sun's rays exposure

(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PP/Met Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)	Family Aqua Condens	Start Condens	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60/100 mm concentric bend	PP/Met	•	•	•	•	(1)(3)	1220729
	90° Ø60/100 mm concentric bend	PP/Met	•	•	•	•	(1)(3)	1220709
	Concentric extension 50 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220699
	Concentric extension 100 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220689
	Concentric extension 200 cm, Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	1220789
	Ø60/100 mm horizontal flue terminal	PP/Met	•	•	•	•	(1)(3)	1220769
	Ø60/100 mm vertical flue terminal	PP/Met	•	•	•	•	(1)(3)	1220779
	Rear flue terminal Ø60/100 mm	PP/Met		•	•		(1)(3)	20043073
	Ø60/100 mm inspection extension	PP/Met	•	•	•	•	(1)(3)	20142835
	90° bend with inspection door Ø60/100 mm	PP/Met	•	•	•	•	(1)(3)	20142828
	Flat roof tile	Nylon	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•		20132050

(*) PP material: colour may change over time because of sun's rays exposure




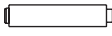
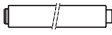
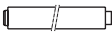
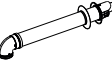
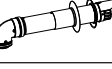

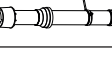





(1) P1 pressure level according to EN 1443

(3) Until stocks are exhausted

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PP/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)	Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR	Notes	Code
	45° Ø60/100 mm concentric bend	PP/PP	•	•	•	•	•	•	(2)	20132012
	90° boiler start bend kit Ø60/100 mm	PP/PP	•		•				(2)	20129172
	90° Ø60/100 mm concentric bend	PP/PP		•		•	•	•	(2)	20132013
	Concentric extension 50 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132043
	Concentric extension 100 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132044
	Concentric extension 200 cm, Ø60/100 mm	PP/PP	•	•	•	•	•	•	(2)	20132045
	Wall collector Ø60/100 mm	PP/PP	•		•				(2)	20129175
	Telescopic wall collector Ø60/100 mm	PP/PP	•		•				(2)	20129176
	Ø60/100 mm horizontal flue terminal	PP/PP		•		•	•	•	(2)	20132018
	Vertical collector Ø60/100 mm	PP/PP	•		•				(2)	20129177
	Ø60/100 mm vertical flue terminal - Ø125 mm external straight pipe	PP/PP		•		•	•	•	(2)	20132020
	Vertical connection Ø60/100 mm	PP/PP	•		•				(2)	20129174
	Ø60/100 mm inspection extension	PP/PP	•	•	•	•	•	•	(2)	20132015
	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050




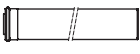
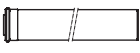



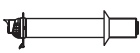






(*) PP material: colour may change over time because of sun's rays exposure

(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PP/Met Ø80/125 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)							Notes	Code
			Family (**)	Family Aqua Condens	Residence (**)	Start Condens	Start Aqua Condens	Start AR		
	45° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(2)	20164651
	87° Ø80/125 mm concentric bend	PP/Met	•	•	•	•	•	•	(2)	20164653
	Concentric extension 50 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164657
	Concentric extension 100 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164659
	Concentric extension 200 cm, Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164660
	87° concentric bend with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164655
	Concentric extension with inspection door Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164661
	Ø80/125 mm vertical flue terminal	PP/Met	•	•	•	•	•	•	(2)	4047982
	Ø80/125 mm horizontal flue terminal	PP/Met	•	•	•	•	•	•	(2)	20164673
	Spacers Ø80-125 mm (5 pcs)	Met	•	•	•	•	•	•		20164665
	Flue adapter from Ø60/100 mm to 80/125 mm	PP/Met	•	•	•	•	•	•	(2)	20164666
	Flue adapter from Ø60/100 mm to Ø80/125 mm	PP/Met	•	•	•	•	•	•	(2)	1220679
	Ø80/125 mm clapet with condensate trap	PP/Met	•	•	•	•	•	•	(2)	20044868
	Flat roof tile	Nylon	•	•	•	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•	•	•	•		20132050

(*) PP material: colour may change over time because of sun's rays exposure




















(**) 60/100 boiler connection kit (cod. 20129174) and 60/100 to 80/125 adapter (cod. 20164666) are mandatory

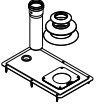
(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PLASTIC (PP) Ø80 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)							Notes	Code
			Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR		
	45° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20164570
	90° Ø80 mm bend	PP	•	•	•	•	•	•	(2)	20164572
	Extension 50 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164574
	Extension 100 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164577
	Extension 200 cm Ø80 mm	PP	•	•	•	•	•	•	(2)	20164578
	Ø80/125 mm chimney adapter	PP	•	•	•	•	•	•	(2)	20132520
	T connection Ø60 mm	PP	•	•	•	•	•	•	(2)	20164584
	Ø60/80 mm adapter	PP	•	•	•	•	•	•	(2)	20164585
	Chimney support kit Ø80 mm	PP	•	•	•	•	•	•	(2)	20132504
	Pipe spacers	PP	•	•	•	•	•	•		20132505
	Ø80 mm inspection extension	PP	•	•	•	•	•	•	(2)	20132506
	Ø80 mm roof tile	PP	•	•	•	•	•	•	(2)	20132508
	Ø80 mm flexible extension (12,5m) with 8 spacers	PP	•	•	•	•	•	•	(2)	20132509
	Rigid/flexible connection Ø80 mm M	PP	•	•	•	•	•	•	(2)	20132510
	Flexible/rigid connection Ø80 mm F	PP	•	•	•	•	•	•	(2)	20132512
	Syphon kit	PP	•	•	•	•	•	•		20046782
	T connection Ø80 mm	PP	•	•	•	•	•	•	(1)	20163018
	Condensate trap cap for T-connection Ø80 mm	PP	•	•	•	•	•	•	(1)	20163019
	Shelf support kit for condensate trap	Met	•	•	•	•	•	•		20145888

Drawing	Description	Material (*)	Material					Notes	Code
			Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens		
	Flue cover panel kit		•	•	•	•	•	•	20145889

(*) PP material: colour may change over time because of sun's rays exposure






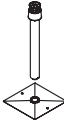








(1) P1 pressure level according to EN 1443

(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

PLASTIC (PP) Ø60 mm FLUE RANGE FOR INSIDE-CHIMNEY INSTALLATION, SPECIFIC FOR CONDENSING BOILERS

Drawing	Description	Material (*)							Notes	Code
			Family	Family Aqua Condens	Residence	Start Condens	Start Aqua Condens	Start AR		
	45° Ø60 mm bend	PP	•	•	•	•	•	•	(2)	20145877
	90° Ø60 mm bend	PP	•	•	•	•	•	•	(2)	20145876
	Extension 50 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145879
	Extension 100 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145882
	Extension 200 cm Ø60 mm	PP	•	•	•	•	•	•	(2)	20145883
	Ø60/100 mm vertical flue terminal - Ø100 mm external straight pipe	PP/PP	•	•	•	•	•	•	(2)	20145884
	3 spacers kit for inside-chimney Ø60 mm	PP	•	•	•	•	•	•		20145886
	Shelf support kit for inside-chimney	PP	•	•	•	•	•	•		20145888
	Chimney front cover kit	PP	•	•	•	•	•	•		20145889
	5 hose clamps kit Ø60 mm	PP	•	•	•	•	•	•		20145890
	Chimney connection kit Ø80-60 mm with bend 90° Ø60 mm	PP	•	•	•	•	•	•	(2)	20145892
	T-connection Ø60 mm with condensate trap	PP	•	•	•	•	•	•	(2)	20145894
	Syphon kit	PP	•	•	•	•	•	•		20046782
	Flue reduction kit 80-60 mm	PP	•	•	•	•	•	•	(2)	20145897

(*) PP material: colour may change over time because of sun's rays exposure

(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line lenght


METAL Ø80 mm TWIN FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material				Notes	Code
			Family	Start	Fastech		
	Ø80 mm twin system kit	Met	•	•		(1)(3) (5)	1220409
	Ø80 mm twin system kit	Met	•	•	•	(1)(4)	20006963
	Air box twin system kit	Met	•	•	•	(1)	1220329
	45° bend Ø80 mm with gasket	Met	•	•	•	(1)	20162295
	90° bend Ø80 mm with gasket	Met	•	•	•	(1)	1220079
	Ø80 mm extension 100 cm with gasket	Met	•	•	•	(1)	1220269
	Ø80 mm extension 50 cm with gasket	Met	•	•	•	(1)	1220149
	Ø80 mm extension 14,7 cm with gasket	Met	•	•	•	(1)	1220249
	Ø80 mm extension 195 cm with gasket	Met	•	•	•	(1)	1220229
	Air intake collector	Met	•	•	•	(1)	1220109
	Flue collector horizontal	Met	•	•	•	(1)	1220119
	Spacers for Ø80 mm pipe (10 pcs)	Met	•	•	•		20137532
	Ø80 mm condensate trap horizontal	Met	•	•	•	(1)	1220039
	Ø80 mm condensate trap vertical	Met	•	•	•	(1)	1220049
	Ø80 mm pipes terminal	Met	•	•	•	(1)	20162443
	90° bend with inspection door Ø80 mm (Slovenia)	Met	•	•	•	(1)	20162297

(1) P1 pressure level according to EN 1443

(2) H1 pressure level according to EN 1443

(3) For Start 28 KIS model

(4) For Start 24 KIS model, Start 24 KI LN model




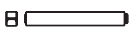










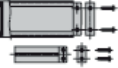


(5) For 35 KIS model

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length



MET/MET Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS




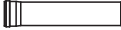


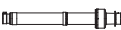
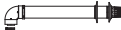
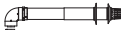


Drawing	Description	Material	Material			Notes	Code
			Family	Start	Fastech		
	Ø60-100 mm vertical flue terminal - Ø125 mm external straight pipe	Met/Met	•	•	•	(1)	1220059
	Standard collector horizontal	Met/Met	•	•	•	(1)	1220069
	Telescopic collector horizontal extensible from 43 to 73,5 cm	Met/Met	•	•	•	(1)	1220299
	Concentric extension Ø60-100 mm (75 cm)	Met/Met	•	•	•	(1)	1220129
	Concentric extension Ø60-100 mm (147 cm)	Met/Met	•	•	•	(1)	1220259
	90° bend Ø60-100 mm	Met/Met	•	•	•	(1)	1220099
	90° bend kit Ø60-100 mm for installation replacement	Met			•	(1)	20006596
	45° bend Ø60-100	Met/Met	•	•	•	(1)	1220089
	Ø60-100 mm condensate trap vertical	Met/Met	•	•	•	(1)	1220029
	Ø60-100 mm condensate trap horizontal	Met/Met	•	•	•	(1)	1220019
	Clip kit H 45 mm with gasket Ø100 mm (4 pcs)		•	•	•		1220239
	Pipe spacers Ø100 mm (4 pcs)	Met	•	•	•		20135584
	Ø60-100 mm telescopic extension (from 165 to 220 mm)	Met/Met	•	•	•	(1)	20163396
	Ø60-100 mm 90° bend with inspection door	Met/Met	•	•	•	(1)	20163390
	Connection clip kit boiler-flue Ø60-100 mm		•	•	•		1220279
	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050

(1) P1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length


MET/PP Ø60/100 mm CONCENTRIC FLUE SYSTEM SPECIFIC FOR STANDARD-EFFICIENCY BOILERS

Drawing	Description	Material				Notes	Code
			Family	Start	Fastech		
	45° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20066986
	90° Ø60-100 mm concentric bend in Met/PPu	Met/PP	•	•	•	(1)	20066988
	90° Ø60-100 mm concentric bend in Met/PPu - for boiler connection	Met/PP	•	•	•	(1)	20066989
	Concentric extension M-F Ø60-100 mm in Met/PPu (500 mm)	Met/PP	•	•	•	(1)	20066992
	Concentric extension M-F Ø60-100 mm in Met/PPu (1000 mm)	Met/PP	•	•	•	(1)	20066993
	Concentric extension M-F Ø60-100 mm in Met/PPu (2000 mm)	Met/PP	•	•	•	(1)	20066996
	Ø60-100 mm vertical flue terminal; Ø125 mm external straight pipe	Met/PP	•	•	•	(1)	20066999
	Ø60-100 mm concentric horizontal flue terminal in Met/PPu	Met/PP	•	•	•	(1)	20067000
	Ø60-100 mm telescopic horizontal flue terminal in Met/PPu (extensible from 500 mm to 800 mm)	Met/PP	•	•	•	(1)	20067001
	Flat roof tile	Nylon	•	•	•		20135579
	Pitched roof tile	Nylon	•	•	•		20132050

(1) P1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length



FLOOR-STANDING BOILERS

FLOOR-STANDING CONDENSING BOILERS 123

FLOOR-STANDING STANDARD EFFICIENCY BOILERS 127

FLOOR-STANDING CONDENSING BOILERS



STEEL OIL BOILERS

ONLY HEATING



INSIEME EVO COND

INSIEME EVO COND 20 V LN (20 kW)
INSIEME EVO COND 25 V LN (25 kW)
INSIEME EVO COND 35 V LN (34,9 kW)

NEW

page 124

HEATING AND DHW
PRODUCTION
130 LITERS STORAGE
TANK



INSIEME EVO COND

INSIEME EVO COND 25 B/130 LN (25 kW)
INSIEME EVO COND 35 B/130 LN (34,9 kW)

NEW

page 124

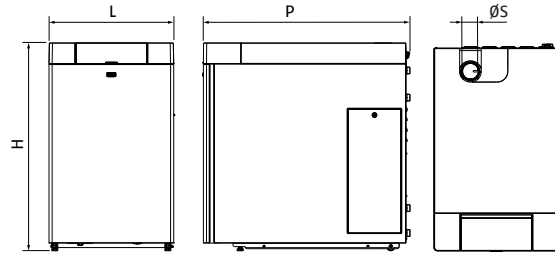
Steel floor-standing oil condensing boilers

Insieme Evo Cond NEW

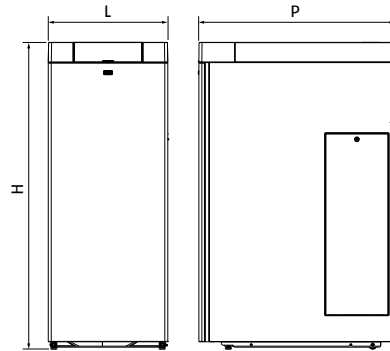


- In conformity with Directive 2009/125/EC
- Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version – class 3 according to EN 267

INSIEME EVO COND 20÷35 V LN



INSIEME EVO COND 25-35 B/130 LN



Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 20 V LN	1000	600	994	80	80	120
Insieme EVO COND 25 V LN	1000	600	994	80	80	120
Insieme EVO COND 35 V LN	1000	600	994	80	80	150
Insieme EVO COND 25 B/130 LN	1540	600	975	80	80	150
Insieme EVO COND 35 B/130 LN	1540	600	975	80	80	195

(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55,70 kW models with low pollutant emissions.

The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specific accessory kits. Are available "only heating" versions or combined for the domestic hot water production with storage tank.

All the models are equipped a new electronic panel with backlight graphical display with five buttons and LEDs for the operating status displaying.

The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.

The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.



- Low sound emissions
- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connexions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with Nox emissions ≤ 100mg/kWh)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

Insieme EVO COND 20÷35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)

Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank

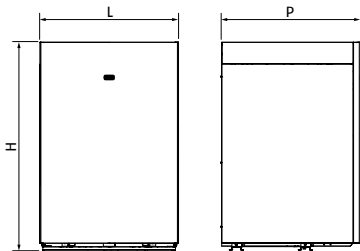
Insieme EVO COND 45÷70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description	Output kW		Efficiency		DHW production l/min	Tank capacity (liters)	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30°C) %						
LOW NOX VERSION - ONLY HEATING										
Insieme EVO COND 20 V LN	19,5	20,0	97,3	105,9	-	-	A	-	(1)	20145974
Insieme EVO COND 25 V LN	24,2	25,0	96,9	105,6	-	-	A	-	(1)	20145975
Insieme EVO COND 35 V LN	33,8	34,9	96,5	104,8	-	-	A	-	(1)	20145976
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE TANK										
Insieme EVO COND 25 B/130 LN	24,2	25,0	96,9	105,6	10,0	130	A	B	(2)	20145980
Insieme EVO COND 35 B/130 LN	33,8	34,9	96,5	104,8	11,4	130	A	B	(2)	20145981

- (1) Integrated 3 way valve.
 - (2) Domestic hot water production with reference to ΔT 35 °C.
- NOTA: for models with P ≥ 35 kW (Insieme EVO COND 45÷70 LN), go to the "CENTRALIZED HEATING" section on page 124.

ACCESSORIES



Description	H mm	L mm	P mm	Net weight kg
120 Lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production l/h	Energy efficiency class	Notes	Code
120 Lt storage tank	120,0	29,8	730	C	(1)(2)	20132804
Boiler - storage tank hydraulic connection					(1)	20132805

- (1) Coupable with integrated 3 way valve models ("V" version).
- (2) Grey painted tank (RAL 7047).


ACCESSORIES

Description	Notes	Code
SECONDARY CIRCUIT MANAGEMENT		
External probe		1220559
Domestic hot water probe		1220599
1 st direct/mixed zone management		20132795
2 nd /3 rd direct/mixed zone management		20132796
SEALED TRANSFORMATION (TYPE C)		
Ø80 mm type C transformation		20163226
FUEL FILTER		
Oil filter		20132792
FLUE DISCHARGE		
Ø80 - Ø80/125 mm adapter		20159698
HYDRAULIC ACCESSORIES		
DN70 hydraulic separator		4047314
CONDENSATE NEUTRALIZER		
DNO 1 neutralization kit		20182660
HNO 1.6 neutralization kit	(1)	20182664

- (1) Equipped with extraction pump.

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

(*) Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON / OFF mode.

(1) With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.

(2) For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

FLOOR-STANDING STANDARD EFFICIENCY BOILERS



GAS BOILERS		OIL BOILERS	
ONLY HEATING CONVENTIONAL FLUE	CAST IRON	STEEL	CAST IRON
	 <p>ATR ATR 44 IN (43,6 kW) ATR 52 IN (52,2 kW) ATR 64 IN (63,5 kW) ATR 71 IN (71,1 kW)</p> <p>page 128</p>	 <p>INSIEME EVOe LN INSIEME EVOe 25 LN (26,5 kW)* INSIEME EVOe 32 V LN (33,9 kW)*</p> <p>page 130</p>	 <p>GITRÈ GITRÈ 4 (25,0 KW) GITRÈ 5 (32,0 KW) GITRÈ 6 (40,0 KW)</p> <p>page 133</p>
	HEATING AND DHW PRODUCTION CONVENTIONAL FLUE INSTANTANEOUS	 <p>INSIEME EVOe LN INSIEME EVOE 25 K LN (26,5 KW)* INSIEME EVOE 32 K LN (33,9 KW)*</p> <p>page 130</p>	
70 LITERS STORAGE TANK	 <p>INSIEME EVOe LN INSIEME EVOE 25 B/70 LN (26,5 KW)*</p> <p>page 130</p>		
100-130 LITERS STORAGE TANK	 <p>INSIEME EVOe LN INSIEME EVOE 32 B/110 LN (33,9 KW)*</p> <p>page 130</p>	 <p>GITRÈ GITRÈ 5 B/100 (32 KW)</p> <p>page 133</p>	

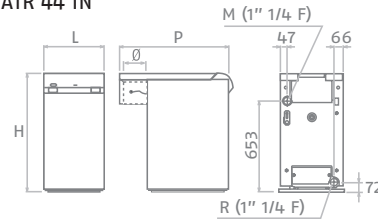
* All versions can be transformed into a sealed chamber version with a dedicated accessory kit.

Atmospheric gas floor-standing boilers

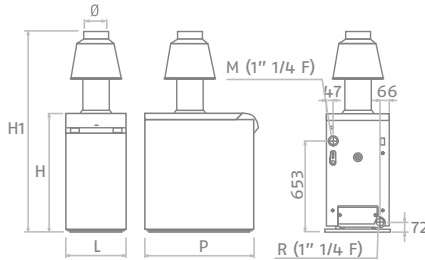
ATR



ATR 44 IN



ATR 52 IN - 64 IN - 71 IN



- Standard efficiency conventional flue cast-iron gas floor-standing boilers for light commercial and commercial applications. Equipped with stainless steel atmospheric burner and built-in control panel, they are suitable for the installation in any kind of plant room.

Description	H mm	H1 mm	L mm	P mm	Ø mm	Net weight kg
ATR 44 IN	850	-	450	780	180	166
ATR 52 IN	850	1475	450	701	180	190
ATR 64 IN	850	1475	450	748	180	225
ATR 71 IN	850	1700	450	867	200	251

ATR features a high efficiency cast iron heat-exchanger, with ionization flame control. The thermostatic control board is provided with a total shut-off function.

- Standard efficiency, higher than 90%.
- Noiseless operation.
- Compact sizes.
- Possible conversion to LPG through the specific kit to be ordered separately.
- Antirefouleur kit for ATR 52-64-71 IN models.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (Tm=70 °C) %	Efficiency (30% Pn) %	Notes	Code
HIGH EFFICIENCY (>90%) - CONVENTIONAL FLUE						
ATR 44 IN	43,6	48,3	90,3	90,1	(1)	4045145
ATR 52 IN	52,2	57,9	90,2	90,1	(2)	4045146
ATR 64 IN	63,5	70,5	90,1	90,0	(2)	4045147
ATR 71 IN	71,1	79,0	90,0	90,0	(3)	4045148

(1) Built-in anti-refouleur kit Ø 180 mm.

(2) In addition to the boilers ATR 52 IN and ATR 64 IN. it is necessary to order the code 480213: anti-refouleur kit Ø 180 mm.

(3) In addition to the boiler ATR 71 IN it is necessary to order the code 480214: anti-refouleur kit Ø 200 mm.

NOTE: the electrical interface kit for tank is required for the use of ATRB 120 tank.

ACCESSORIES

Description	Notes	Code
Interface kit for DHW-tank		4047695
Global shut-off kit	(1)	4047697
Hydraulic kit for ATRB 120		4047692
LPG transformation kit for ATR 44		20185318
LPG transformation kit for ATR 52		20185315
LPG transformation kit for ATR 64		20185316
LPG transformation kit for ATR 71		20185317
Anti-refouleur kit Ø 180 mm	(2)	480213
Anti-refouleur kit Ø 200 mm	(3)	480214

(1) The "global shut-off kit" is necessary when you installed the electrical interface kit for DHW-tank (code 4047695) to keep the function "global shut-off". For hydraulic accessories, please contact Sales Department.

(2) Only for ATR 52 IN and ATR 64 IN.

(3) Only for ATR 71 IN.

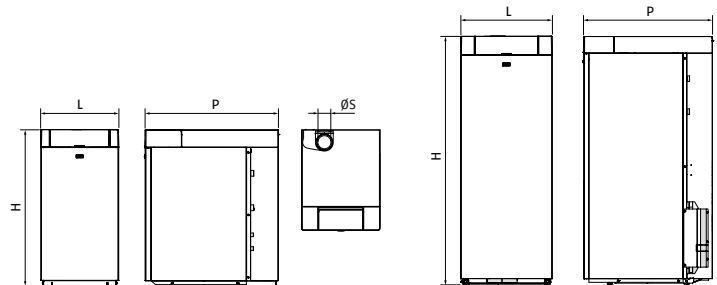
Steel floor-standing standard boilers

Insieme EVOe



Insieme EVOe 25 LN – 32 V LN
Insieme EVOe 25/32 K LN

Insieme EVOe 25 B/70 LN
Insieme EVOe 32 B/110 LN



- In conformity with Directive 2009/125/EC
- Steel boilers with light oil burner for heating and for the production of domestic hot water
- Low NOx version class 3 according to EN 267

Description	H mm	L mm	P mm	Ø A mm	Ø S mm	Net weight kg
Insieme EVOe 25 LN	900	450	660	80	80	104
Insieme EVOe 32 V LN	900	600	760	80	120	136
Insieme EVOe 25 K LN	900	450	660	80	80	106
Insieme EVOe 32 K LN	900	600	760	80	120	138
Insieme EVOe 25 B/70 LN	1355	500	735	80	80	155
Insieme EVOe 32 B/110 LN	1490	600	700	80	120	206

* Type C conversion accessory kit

Steel boiler with low combustion pollutant emission one-stage light oil burner. The body of the boiler is vertical and is covered in insulating and sound-proofing material.

The standard Insieme EVOe is available with an open chamber that can be converted into a sealed chamber with the accessory kit. Versions are available for heating only or combined with instantaneous domestic hot water production or with storage. All models have a new electronic panel with backlit graphic display and five keys and LEDs for displaying the operating status. The control system provides climatic adjustment, the management of the distribution of up to 3 zones using special accessory kits, and the regulation of the domestic hot water. The electronics also provide the possibility of remote management using a 0-10 V input or else with the Modbus protocol.

- Low sound emissions
- Easy and inexpensive to install. The delivery includes all the accessories for it to operate safely
- Easy to maintain: combustion chamber, flue gases manifold, control panel and hydraulic connections are can be easily accessed
- Low pollutant emissions, class 3 according to EN 267 ($\text{NOx} \leq 100 \text{mg/kWh}$)
- Maximum operating pressure: 3 bar

Insieme EVOe 25 LN: boiler for room heating.



Insieme EVOe 32 V LN: boiler for room heating. Equipped with 3-way valve for combination with an external domestic hot water storage cylinder (accessory kit).

Insieme EVOe 25/32 K LN: boilers for room heating and the instantaneous priority production of domestic hot water using an instantaneous plate heat exchanger with a diverter valve and control of the modulating pump (PWM).

Insieme EVOe 25 B/70 LN: boilers for room heating and the production of domestic hot water with a 70 litre integrated storage cylinder.

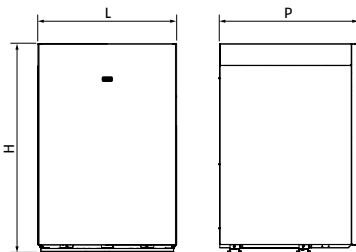
Insieme EVOe 32 B/110 LN: boilers for room heating and the production of domestic hot water with a 110 litre integrated storage cylinder.

TECHNICAL DATA

Description	Output kW		Efficiency %		DHW production l/min	Tank capacity liters	Energy efficiency class		Notes	Code
	Useful 80°/60° max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (37 °C) %						
LOW NOX VERSION - ONLY HEATING										
Insieme EVOe 25 LN	25,3	26,5	95,4	96,6	-	-	B	-		20118240
Insieme EVOe 32 V LN	32,5	33,9	95,7	97,3	-	-	B	-		20130415
LOW NOX VERSION - HEATING AND INSTANTANEOUS DOMESTIC HOT WATER PRODUCTION										
Insieme EVOe 25 K LN	25,3	26,5	95,4	96,6	9,4	-	B	B	(1)	20118244
Insieme EVOe 32 K LN	32,5	33,9	95,7	97,3	12,7	-	B	B	(1)	20118245
LOW NOX VERSION - HEATING AND DOMESTIC HOT WATER PRODUCTION WITH STORAGE CYLINDER										
Insieme EVOe 25 B/70 LN	25,3	26,5	95,4	96,6	9,4	69	B	B	(1)	20118246
Insieme EVOe 32 B/110 LN	32,5	33,9	95,7	97,3	12,7	106	B	B	(1)	20118250

(1) Domestic hot water production with reference to ΔT 35 °C

ACCESSORIES



Description	H mm	L mm	P mm	Net weight kg
120 lt storage tank	900	600	600	68

TECHNICAL DATA

Description	Capacity liters	Maximum power consumption kW	DHW production l/h	Energy efficiency class	Notes	Code
120 lt storage tank	120,0	29,8	730	C	(1)(2)	20132804
Boiler - storage tank hydraulic connection					(1)	20132805


(1) Coupable with integrated 3 way valve models ("V" version).
 (2) Grey painted tank (RAL 7047).

ACCESSORIES

Description	Code
SECONDARY CIRCUIT MANAGEMENT	
External probe	1220559
Domestic hot water probe	1220599
1st direct/mixed zone management	20132795
2nd/3rd direct/mixed zone management	20132796
SEALED TRANSFORMATION (TYPE C)	
Type C transformation MOD 25	20132799
Type C transformation MOD 32	20132800
FUEL FILTER	
Oil filter	20132792
Ø80 mm SINGLE DISCHARGE OR TWIN SUCTION/DISCHARGE	
Ø120/80 - Ø80/80 mm twin adapter	20180504
45° bend Ø80	20162295
90° bend Ø80	20162296
90° bend Ø80 with inspection	20162297
Extension L = 500 mm Ø80 mm	20162298
Extension L = 1000 mm Ø80 mm	20162299
Extension L = 2000 mm Ø80 mm	20162300
Horizontal terminal Ø80 mm	20162442
HYDRAULIC ACCESSORIES	
Hydraulic separator	20132798

RiCLOUD SMART REMOTE CONTROL

RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

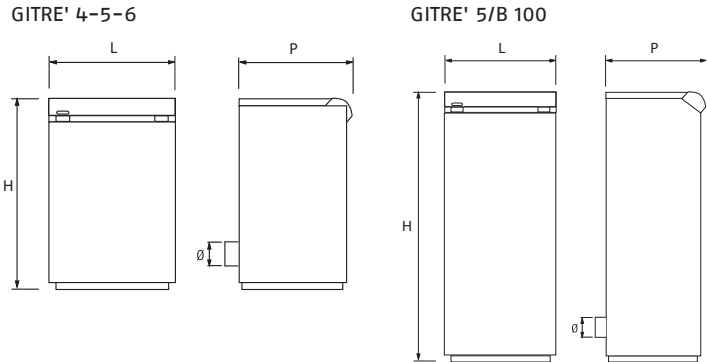
(*) Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON / OFF mode.

(1) With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.

(2) For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

Cast iron floor-standing standard boilers

Gitrè



- In conformity with Directive 2009/125/EC
- Cast iron oil floor standing boilers, with three flue gas passes, removable turbolators and winged pipes

Description	H mm	L mm	P mm	Ø mm	Net weight kg
GITRÈ 4	850	450	800	130	182
GITRÈ 5	850	450	900	130	214
GITRÈ 6	850	450	1000	130	248
GITRÈ 5 B/100	1500	600	900	130	286

Cast iron floor standing boiler with three flue gas passes and single stage oil burner, with standard combustion and low polluting emissions; wet horizontal combustion chamber and highly insulated boiler body. GITRÈ is available in only heating models or combined for DHW production, provided with an enameled 100 liters storage tanks featuring a double-layer insulation.

- All models are equipped with a thermostatic control panel, with IP X0D protection
- Energy efficiency class B both in heating and DHW production
- Return temperature up to 37 °C
- Ease of maintenance: combustion chamber, flues battery, control panel and hydraulic fittings are easy to access
- Available as accessory the electronic kit to control up to three direct zones

GITRÈ 4-5-6: cast iron oil floor standing boilers for space heating.

GITRÈ 5 B/100: cast iron oil floor standing boilers for space heating and DHW production with the integrated 100 liters storage tank.

TECHNICAL DATA

Description	Output 80°/60° max kW	Input min - max kW	Efficiency Pn (80/60 °C) %	Efficiency 30% Pn (37°Creturn) %	DHW production Δt 35 °C l/min	Tank capacity liters	Energy efficiency class	Code
LOW NOX VERSION - HEATING ONLY								
GITRÈ 4	23,8	25	95,3	97,4	-	-	B	20123950
GITRÈ 5	30,7	32	96,1	97,2	-	-	B	20123952
GITRÈ 6	38,5	40	96,2	97,3	-	-	B	20123953
LOW NOX VERSION - HEATING AND DHW PRODUCTION WITH TANK								
GITRÈ 5 B/100	30,7	32	96,1	97,2	10,2	100	B B	20123954

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Electrical multi-zone kit	20168656



WATER-HEATERS



HEAT PUMPS 137

LOW NOX INSTANTANEOUS - GAS 141

FLUE OPTION SYSTEMS 145

HEAT PUMPS



AIR/WATER HEAT PUMP

DOMESTIC HOT WATER



NEXAQUA
NEXAQUA 80-120

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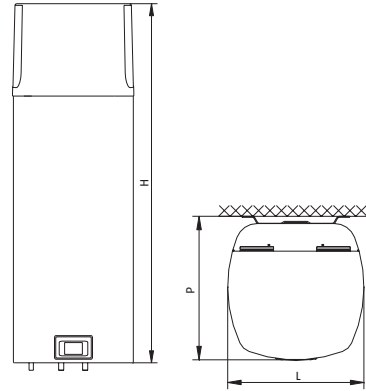


NEXPRO 300 PLUS
NEXPRO 300 PLUS

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DHW air-water heat pump

NexAqua



- Highest efficiency energy efficiency class A+

Description	H mm	L mm	P mm
NexAqua 80-80 Plus	1197	506	533
NexAqua 120-120 Plus	1497	506	533

NexAqua is Riello solution specifically designed to enhance DHW production in domestic applications. The unit consists mainly of a mini heat pump and a tank. The mini-heatpump, located in the upper part of the tank, heat the water contained in the in the 80-120 liters tank up to 55 °C in heat pump operation and up to 75 °C thanks to the additional electrical resistances.


A centrifugal fan sucks the air and allows the heat pump to operate in recirculation or in particular installation places, through pipes up to 15 m length with a DN 125 diameter. The energy recovered in this way is then transferred to water by an external exchanger located around the external surface of the tank, thus allowing a money-saving maintenance.

The high efficiency of NexAqua derives from a refrigeration circuit in R134A, which heat water up to 55 °C.

The tank is provided with 2 electrical resistances of 1,0 kW (each) as standard supply.

- Touch Screen Display
- High efficiency coefficient
- 2 additional electrical resistances of 1,0 kW (each) as standard
- Centrifugal fan with high available pressure for air duct systems
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

TECHNICAL DATA

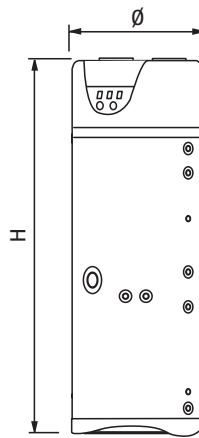
Description	Firing rate	Maximum power absorption average (2) W	Efficiency coefficient (1) COP	Air flow rate m ³ /h	Recovery time h:min (1)	Volume liters	Energy efficiency class (3) 	Code
NexAqua 80	+7/35 °C	350	3,1	100-230	4:40	80	A+	20075560
NexAqua 80 Plus	-7/35 °C	350	3,1	100-230	4:40	80	A+	20075563
NexAqua 120	+7/35 °C	350	3,1	100-230	6:40	120	A+	20075562
NexAqua 120 Plus	-7/35 °C	350	3,1	100-230	6:40	120	A+	20075565

Performance values refer to the following conditions:

- (1) Compliance with EN 16147: room air temperature 15 °C with 74% humidity, DHW from 10 °C to 55 °C
- (2) Value refers to heat pump operation without additional electrical resistances
- (3) M load profile

DHW air-water heat pump

NexPro 300 Plus



- Highest efficiency energy efficiency class A+

Description	H mm	Ø mm	Net weight kg
NexPro 300 Plus	1870	660	122
NexPro 300 S Plus	1870	660	137
NexPro 300 CS Plus	1870	660	155

NexPro 300 Plus is the Riello solution dedicated to domestic hot water production in residential applications.

The unit consists of a heat pump and a tank with 300 l capacity. The heat pump, placed directly on the upper part of the tank, uses the thermal energy of the air to heat the water contained in the tank.

The air is sucked by a centrifugal fan that allows the heat pump to operate in recirculation or through pipes up to 10 m length with a DN 160 diameter. The energy recovered is then transferred to water by an external exchanger located around the external surface of the tank, thus avoiding maintenance costs.


The high efficiency of NexPro 300 Plus derives from a refrigeration circuit in R134A, a high efficiency compressor, an electronic expansion valve and a bypass valve for hot gases to allow the operation up to -5 °C.

The tank is provided with a double enameled coating (DIN 4753) and a 1,5 kW electrical resistance as standard supply. The resistance accomplishes the four main functions: additional heating, frost protection, emergency heating and anti-legionella protection.

The whole system is managed and adjusted by an "intelligent" control device, to allow the best operation of each component.

- DHW production up to a temperature of 60 °C
- High efficiency coefficient
- Additional electrical resistance of 1,5 kW as standard
- Centrifugal fan with high available pressure for air duct systems
- Double enameled DHW tank (DIN 4753)
- Solar integration through RSS pump station
- Operation range -5 °C/+32 °C
- Corrosion protection with magnesium anode and enamelled tank
- Highest efficiency energy efficiency class A+

TECHNICAL DATA

Description	Average heating capacity 50 °C (1) W	Efficiency coefficient (1) COP	Power absorption average (1) W	Recovery time (1) h:m	Air flow rate m ³ /h	Volume liters	Energy efficiency class (2) 	Code
DHW								
NexPro 300 Plus	1950	2,92	488	7:22	450	300	A+	20125639
DHW + SOLAR SYSTEM								
NexPro 300 S Plus	1950	2,92	488	7:22	450	295	A+	20125640
DHW + BOILER + SOLAR SYSTEM								
NexPro 300 CS Plus	1950	2,92	488	7:22	450	290	A+	20125642

Performance values refer to the following conditions:

- (1) Compliance with EN 16147: room air temperature 15 °C with 71% humidity, DHW from 15 °C to 54 °C
 (2) Load profile

ACCESSORIES

Description	Code
RSS MRS	20116166



LOW NOX INSTANTANEOUS – GAS

INDOOR

OUTDOOR

CONVENTIONAL FLUE



ACQUAFUN² LN

ACQUAFUN² 11 (19,4 kW-11 l/min)*
ACQUAFUN² 14 (24,4 kW-14 l/min)*

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ROOM-SEALED



RIELLO MINI LN

RIELLO MINI 11 LN (19,9 kW-11 l/min)*
RIELLO MINI 13 LN (22,5 kW-13 l/min)*
RIELLO MINI 17 LN (27,6 kW-17 l/min)*

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RIELLO MINI LN

RIELLO MINI 11 LN (19,9 kW-11 l/min)*
RIELLO MINI 13 LN (22,5 kW-13 l/min)*
RIELLO MINI 17 LN (27,6 kW-17 l/min)*

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RIELLO MINI EVO EXT LN

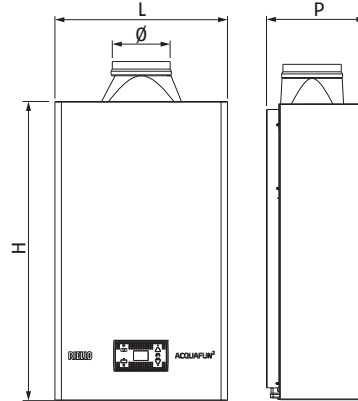
RIELLO MINI 11 EVO EXT LN (19,9 kW-11 l/min)*
RIELLO MINI 11 Evo EXT LN (22,5 kW-13 l/min)*
RIELLO MINI 17 EVO EXT LN (27,6 kW-17 l/min)*

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* DHW production with $\Delta T = 25 \text{ }^\circ\text{C}$

Conventional flue low NOx instantaneous gas water heater

Acquafun² LN




- Natural gas and LPG
- Conventional flue
- Automatic battery-powered ignition
- Reduced NOx emissions

Description	H mm	L mm	P mm	ø mm	Net weight kg
ACQUAFUN² 11 LN	675	350	230	110	12
ACQUAFUN² 14 LN	675	400	230	130	12

Acquafun2 LN is the open chamber water heater that is quick and easy to install without electrical connections because the power supply comes from a battery. It is available in two models: 11 and 14 litres. Water heater with low NOx emissions <56 mg/kWh.

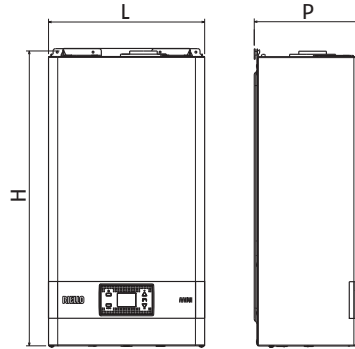
- Instantaneous gas water heater for indoor installation
- User interface with backlit display, intuitive control keys and battery replacement LED
- Auto-adaptive system with thermostatic device
- Automatic ignition using the battery; 2 batteries supplied (1.5 Volt – size D)
- The continuous flame modulation allows the selected temperature to remain constant when the water pressure and output varies optimising the combination at the mechanical and thermostatic mixers
- Good flame stability
- Temperature probe on the water outlet
- Thanks to its particularly compact dimensions it can be installed in confined areas of the home

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class 	Code
VERSION WITH ROOM-SEALED WITH NATURAL DRAFT - AUTOMATIC BATTERY IGNITION					
ACQUAFUN² 11 LN	19,4-22,0	11,0	NG	A	20149827
ACQUAFUN² 11 LN	18,3-21,0	11,0	LPG	A	20149831
ACQUAFUN² 14 LN	24,4-28,0	14,0	NG	A	20149833
ACQUAFUN² 14 LN	24,7-28,0	14,0	LPG	A	20149834

Room sealed low NOx instantaneous gas water heater

RIELLO MINI LN



- Natural gas and LPG
- Room-sealed
- Electronic ignition
- Reduced NOx emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 LN	642	340	237	19
RIELLO MINI 13 LN	642	340	237	19
RIELLO MINI 17 LN	640	400	246	21

Riello Mini is a small boiler intended specifically to generate domestic hot water. It is available in models with 11, 13 and 17 litres per minute. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for indoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Assembly template and power cable supplied.

TECHNICAL DATA

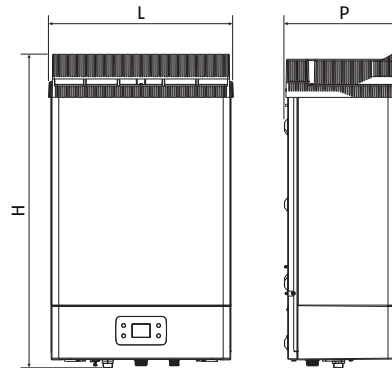
Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class	Notes	Code
VERSION WITH FORCED DRAFT CONVENTIONAL FLUE - ELECTRONIC IGNITION						
RIELLO MINI 11 LN	19,9-22,2	11,0	NG	A	(1)(2)	20143047
RIELLO MINI 11 LN	19,9-22,2	11,0	LPG	A	(1)(2)	20143048
RIELLO MINI 13 LN	22,5-25,0	13,0	NG	A	(1)(2)	20143049
RIELLO MINI 13 LN	22,5-25,0	13,0	LPG	A	(1)(2)	20143050
RIELLO MINI 17 LN	27,6-30,0	17,0	NG	A	(1)(2)	20143051
RIELLO MINI 17 LN	27,6-30,0	17,0	LPG	A	(1)(2)	20143052

(1) For low temperature installation (down to -10 °C), the anti-freeze resistors kit is available (code 20148036)
 (2) The water heater can be installed also outdoors in a partially protected place, where it is not exposed directly to the elements. For these installations we recommend using anti-freeze systems that can adequately protect the appliance from the risk of freezing. Contact the pre-sales service for clarification or support.

ACCESSORIES

Description	Code
ELECTRICAL ACCESSORIES	
Anti-freeze resistors kit	20148036
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624

Outdoor room sealed low NOx instantaneous gas water heater

RIELLO MINI EVO EXT LN

- Gas-tight chamber
- Electronic ignition
- Type A2 outdoor installation
- Low NOx emissions

Description	H mm	L mm	P mm	Net weight kg
RIELLO MINI 11 EVO EXT LN	699	408	260	21
RIELLO MINI 13 EVO EXT LN	699	408	260	21
RIELLO MINI 17 EVO EXT LN	699	408	260	21

Riello Mini Evo Ext is a small boiler intended specifically to produce domestic hot water. It is available in models with 11, 13 and 17 litres per minute, for type A2 outdoor installations. Water heater with low NOx emissions <56 mg/kWh.

- Instantaneous gas water heater for outdoor installation
- New electronics and icon interface with backlit display and four keys for carrying out adjustments
- Broad flame modulation that provides excellent stability of the domestic hot water delivery temperature, even with minimum draw-off
- Anti-freeze resistors as standard to provide operation with outdoor temperatures as low as -10 °C on 11 and 13 l/min versions and -7 °C on the 17 l/min version
- Assembly template and power cable supplied.

TECHNICAL DATA

Description	Useful output furnace kW	DHW flow rate l/min.	Fuel	Energy efficiency class 	Code
VERSION WITH FORCED DRAUGHT-ELECTRONIC IGNITION GAS-TIGHT CHAMBER					
RIELLO MINI 11 EVO EXT LN	19,9-22,2	11,0	NG	A	20144208
RIELLO MINI 13 EVO EXT LN	22,5-25,8	13,0	NG	A	20144210
RIELLO MINI 17 EVO EXT LN	27,6-30,0	17,0	NG	A	20144234

ACCESSORIES

Description	Code
COMBUSTION ACCESSORIES	
LPG conversion kit (MINI 11 EVO EXT LN)	20155581
LPG conversion kit (MINI 13 EVO EXT LN)	20155583
LPG conversion kit (MINI 17 EVO EXT LN)	20157837
HYDRAULIC ACCESSORIES	
Water connection with tap	4047624



FLUE OPTION SYSTEMS

HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING








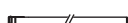








AIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

TWIN FLUE GAS EXHAUST SYSTEM Ø80 mm MADE OF METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Twin system without flue gas analysis outlet	Met	(1)	1220329
	Twin system connection kit	Met	(1)(3)	20162668
	Twin system connection kit	Met	(1)(4)	20162669
	Bend 45° Ø80 with gasket	Met	(1)	20162295
	Bend 90° with gasket	Met	(1)	1220079
	Extension 100 cm with gasket	Met	(1)	1220269
	Extension 50 cm with gasket	Met	(1)	1220149
	Extension 195 cm with gasket	Met	(1)	1220229
	Type B22 flue gas exhaust kit for open air installation	Met	(1)	20162455
	Air suction terminal	Met	(1)	1220109
	Flue gas exhaust terminal	Met	(1)	1220119
	Spacer ring/support for Ø80 pipes (4 pieces)			20137532
	Horizontal condensation collection kit	Met		1220039
	Vertical condensation collection kit	Met		1220049
	Terminal for Ø80 mm pipes	Met	(1)	20162443
	Bend 90° Ø80 mm with inspection	Met	(1)	20162297

(1) P1 pressure level according to EN 1443

(2) H1 pressure level according to EN 1443



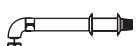














(3) For Mini 11-13 LN versions

(4) For Mini 17 LN version

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

COAXIAL FLUE GAS EXHAUST SYSTEM Ø60/100 mm MADE OF PP/METAL FOR WATER HEATER (ONLY FOR RIELLO MINI LN)

Drawing	Description	Material	Notes	Code
	Vertical discharge kit	Met/Met	(1)	20163422
	Coaxial discharge terminal kit	Met/Met	(1)	20163409
	Telescopic coaxial discharge terminal kit (from 430 to 735 mm)	Met/Met	(1)	20163412
	Coaxial extension (75 cm)	Met/Met	(1)	20163392
	Double coaxial extension (147 cm)	Met/Met	(1)	20163394
	Coaxial bend 90°	Met/Met	(1)	20163334
	Coaxial bend 45°	Met/Met	(1)	20163330
	Tile for flat roof	Nylon		20135579
	Universal lead tile	Nylon		20132050
	Vertical coaxial condensation collection kit	Met/Met		20163403
	Horizontal coaxial condensation collection kit	Met/Met		20163400
	Clamps kit H 45 mm with gasket Ø100 mm (4 pieces)			20163427
	Spacer ring/support for Ø100 pipes (10 pieces)			20135584
	Telescopic manifold 60-100 mm (from 165 to 220 mm)	Met/Met	(1)	20163396
	Combustion analysis sockets kit			20163430
	Bend 90° Ø60 -100 mm with inspection	Met/Met	(1)	20163390
	Bend adaptor kit Ø60-100 mm (for replacing Mini 11 and 13 with rear flue gas exhaust)	Met/Met	(1)	20122792

(1) P1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length



SOLAR THERMAL AND CYLINDER

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SOLAR SYSTEMS



SYSTEMS FOR DHW PRODUCTION

FORCED CIRCULATION

2 FITTINGS

RPS 25/4 SYSTEM

- 200 liters
- 300 liters
- 430 liters
- 550 liters
- 800 liters
- 1000 liters

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CSAL 25 RN SYSTEM

- 200 liters
- 300 liters

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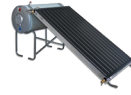
NATURAL CIRCULATION

4 FITTINGS

CSNA 20 RS SYSTEM

- 150 liters
- 200 liters
- 220 liters
- 300 liters

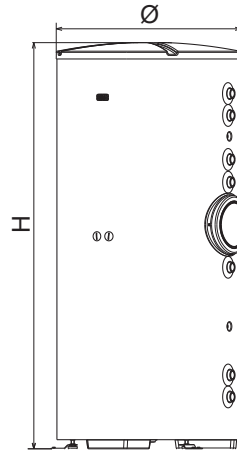
page 158



FLAT PLATE SOLAR COLLECTOR

Systems for DHW production – Forced circulation

RPS 25/4 System



- Domestic hot water production

Complete and integrated system for the production of domestic hot water, dedicated to household customers. It consists of all the elements necessary for the construction of the solar system and is designed for a simple and safe installation. The system consists of:

- High-efficiency RPS 25/4 solar collectors, thanks to the selective absorber TiNO_x Energy Al.
- The RSS MRS hydraulic unit is complete with a modulating circulator, safety devices, load valves, non-return valve, delivery and return thermometers, pressure gauge and EVOSOL control unit for solar system management.
- RBS 25 heater, in dual coil steel, internally glazed to ensure hygiene and facilitate cleaning of limescale deposits; with excellent aesthetic finishes (in embossed ABS) and energy performance.
- Expansion reservoir, designed to withstand high temperatures.
- Antifreeze, non-toxic, biodegradable and biocompatible fluid.
- ¾" thermostatic mixer to optimize the system.
- 5-year warranty on both collectors and heater.
- Wide selection of bracket kits to meet all installation needs.

For more details on heater, solar panel and hydraulic unit, refer to the dedicated product pages.

TECHNICAL DATA

Description	Solar collectors		Glycol quantity kg	Expansion vessel liters	Number of people	Solar cylinder				Notes	Code
	Number	Gross area m ²				Capacity liters	H mm	Ø mm	Energy efficiency class		
RPS 25/4 200	1	2,3	10	18	2-3	208	1338	604	B	(1)	20134809
RPS 25/4 300	2	4,6	10	18	4-5	301	1838	604	B	(1)	20134810
RPS 25/4 430	3	6,9	15	24	6-7	442	1644	755	B	(1)	20131990
RPS 25/4 550	4	9,2	20	35	8-9	551	1988	755	B	(1)	20131991
RPS 25/4 800	5	11,5	20	50	10-11	731	1846	1000	B	(2)	20131992
RPS 25/4 1000	6	13,8	20	50	12-13	883	2171	1000	B	(2)	20131993

(1) Components provided in a single pallet.

(2) Heater supplied with insulation disassembled.

All solar systems include: solar collectors, bivalent solar tank with RSS hydraulic group with integrated EVOSOL solar regulator, glycol, expansion tank and thermostatic mixer.

ACCESSORIES FOR VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
Inset kit for 1 collector		20145347
Inset kit for 2 collectors		20145351
Inset kit for 3 collectors		20148401
Inset kit for 4 collectors		20148404
Inset kit for 5 collectors		20149352
Inset kit for 6 collectors		20149353

(1) Optional component, to be installed at the highest point in the solar loop.

(2) Use one for each row of installed RPS 25/4 collectors.

Other available accessories at page 202.

ACCESSORIES FOR HORIZONTAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Welding fittings kit		20132221
Fittings kit for stainless steel hose		20132222
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 4 collectors in //	(3)	20104704
Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 6 collectors in //	(3)	20104708
HORIZONTAL INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
HORIZONTAL INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 4 collectors	(3)	20104745
Undertile brackets kit for 5 collectors	(3)	20104746
Undertile brackets kit for 6 collectors	(3)	20104748
HORIZONTAL INSTALLATION IN PARALLEL ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 3 collectors	(3)	20104761
Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 5 collectors	(3)	20104765
Undertile adjustable brackets kit for 6 collectors	(3)	20104768

(1) Optional component, to be installed at the highest point in the solar loop.

(2) To be used for possible integration of the bracket kits. See note (3).

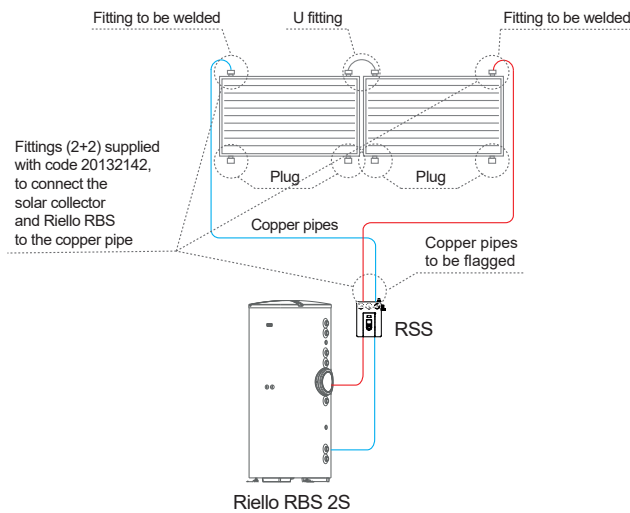
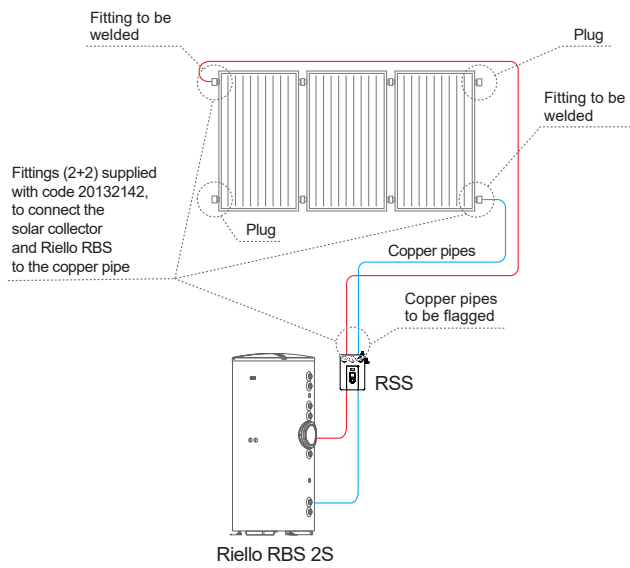
(3) Brackets kit complete with:

- "male" terminal fittings suitable for installations with delivery and return on the upper side of the row. For different installations, use the code 20094627 to complete;
- flexible connection fittings between the manifolds.

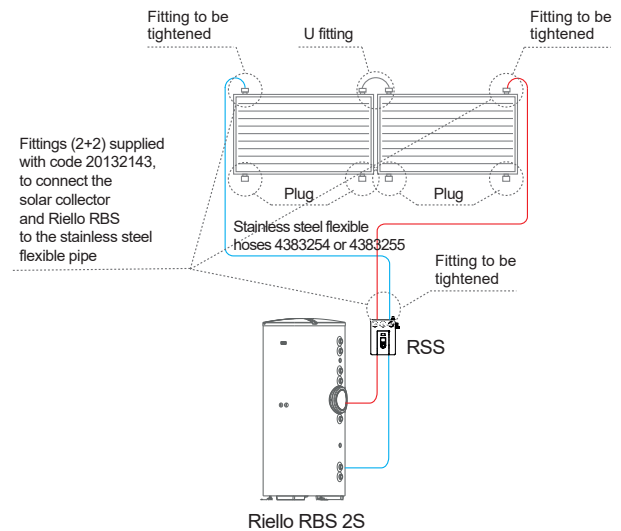
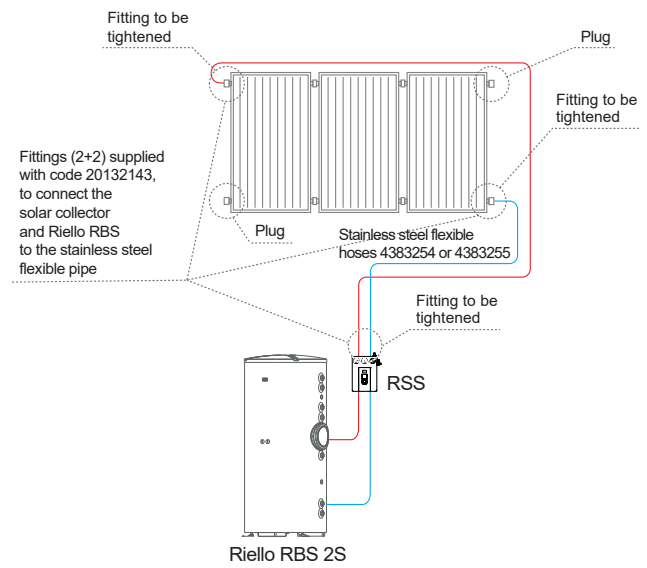
Other available accessories at page 202.

SOLAR SYSTEMS CONNECTION DIAGRAMS

DN22 copper pipes connections



DN16 stainless steel pipes connections



NOTES: stainless steel pipe recommended for up to 4 collectors.

Systems for DHW production - Forced circulation

CSAL 25 RN System




- Domestic hot water production

Complete system for the production of domestic hot water, designed for all domestic utilities. It consists of all necessary elements to build a solar system and is designed for a simple, fast and safe installation. The system consists of:

- High efficiency solar collector CSAL 25 RS thanks to the selective absorber TiNOx Energy AI.
- RSS MRS pump station equipped with differential controller EVOSOL to control the solar system; the solar station has to be mounted on wall.
- Double coil Solar cylinder RBS 2S, characterized by excellent refinements (ABS embossed), high energy efficiency (Energy efficiency class B), provided with an internal glazed enamel treatment (vitrification) to ensure hygiene and to facilitate the cleaning of limestone deposits.
- Expansion vessel designed to resist high temperatures.
- Non-toxic, biodegradable and biocompatible frost-protection liquid.
- 3/4" thermostatic mixing valve, to optimize the system.
- Wide range of bracket kits to meet all installation requirements.

For additional information about cylinder and panel, please consult the specific product pages.

TECHNICAL DATA

Description	Solar collectors			Glycol quantity kg	Expansion vessel liters	Number of people	Solar cylinder				Notes	Code
	Number	Gross area m ²	Absorber area m ²				Capacity liters	H mm	Ø mm	Energy efficiency class 		
CSAL 25 R 200 N REG	1	2,43	2,15	10	18	2 - 3	208	1338	604	B	(1)	20128083
CSAL 25 R 300 N REG	2	4,86	4,30	10	18	4 - 5	301	1838	604	B	(1)	20128084

All the solar systems are complete with: solar collectors CSAL 25 RS, double-coil solar cylinder RBS 2S, RSS MRS pump station (with differential controller EVOSOL embedded), glycol, expansion vessel and thermostatic mixing valve.

(1) Components provided in a single pallet.

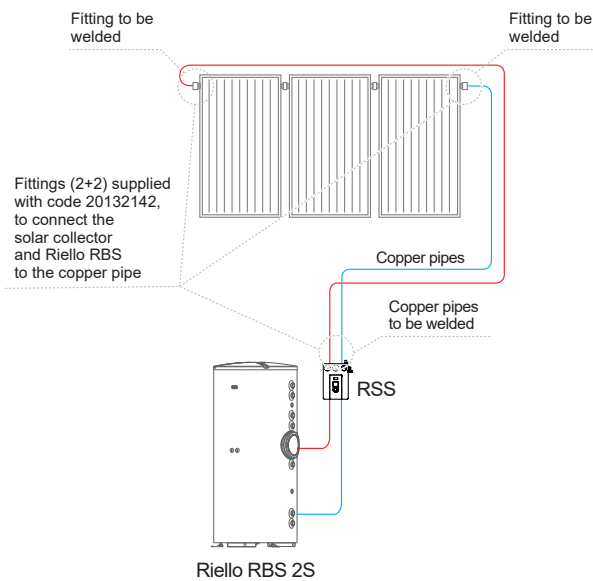
ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640

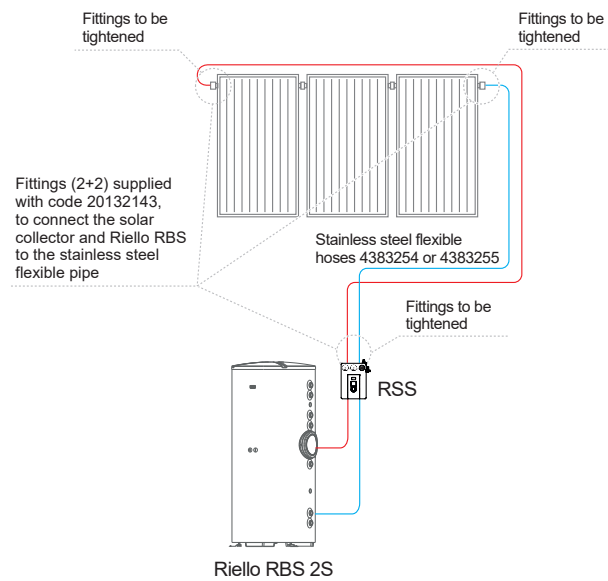
(1) Optional component, to be installed at the highest point in the solar loop.

SOLAR SYSTEMS CONNECTION DIAGRAMS

DN22 copper pipes connections



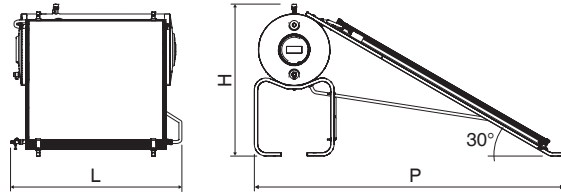
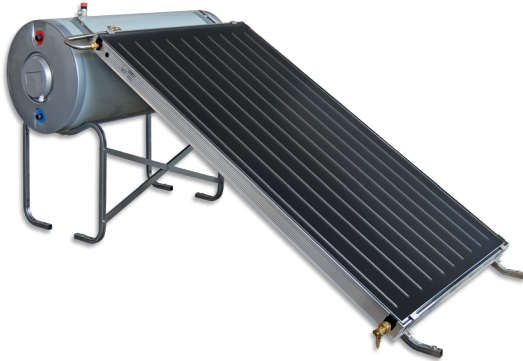
DN16 stainless steel pipes connections



NOTES: stainless steel tube recommended up to 4 collectors.

Systems for DHW production – Natural circulation

CSNA 20 RS System



- Ready-to-install solar system for domestic hot water production
- Solar Keymark according to EN 12976

Description	H mm	L mm	P mm	Net weight kg
CSNA 20 RS 150/1 0°	720	1290	2570	94
CSNA 20 RS 200/1 0°	720	1290	2570	122
CSNA 20 RS 220/2 0°	720	2400	2570	143
CSNA 20 RS 300/2 0°	720	2400	2570	193
CSNA 20 RS 300/3 0°	720	3500	2570	200
CSNA 20 RS 150/1 30°	1135	1290	2315	112
CSNA 20 RS 200/1 30°	1135	1290	2315	136
CSNA 20 RS 220/2 30°	1135	2400	2315	162
CSNA 20 RS 300/2 30°	1135	2400	2315	198
CSNA 20 RS 300/3 30°	1135	3500	2315	236

Systems designed for the production of domestic hot water (up to 5 people), even in climatic zones with non optimal weather conditions. They consist of preassembled components and do not require pumps or electronic control devices, thus ensuring a simple and fast installation. The package includes:

- High efficiency solar collector CSAL 20 RS, well insulated, provided with aluminum absorber treated with selective deposition.
- Double chamber enamelled cylinder, with polyurethane insulation and magnesium anode.
- Fixing kits for the installation of the system: in parallel to the roof or inclined at an angle of 30° on flat surfaces.
- Non-toxic, biodegradable and biocompatible frost-protection liquid.
- Single-phase supplementary electrical resistance (to be used as frost protection too) available as an accessory. The system is provided with Solar Keymark certification according to UNI EN 12976 and is equipped with solar panels provided with solar keymark certification according to UNI EN 12975 and 9806.

TECHNICAL DATA

Description	Solar collectors		Glicol kg	Number of people	Capacity liters	Notes	Code
	Number	Gross area m ²					
CSNA 20 RS 150/1 0°	1	1,91	2,5	2-3	153	(1)	20099761
CSNA 20 RS 200/1 0°	1	1,91	2,5	2-3	202	(1)	20157521
CSNA 20 RS 220/2 0°	2	3,82	5	3-4	223	(1)	20099764
CSNA 20 RS 300/2 0°	2	3,82	5	4-5	278	(1)	20099766
CSNA 20 RS 300/3 0°	3	5,73	7,5	4-5	278	(1)	20099767
CSNA 20 RS 150/1 30°	1	1,91	2,5	2-3	153	(2)	20087393
CSNA 20 RS 200/1 30°	1	1,91	2,5	2-3	202	(2)	20157732
CSNA 20 RS 220/2 30°	2	3,82	5	3-4	223	(2)	20087671
CSNA 20 RS 300/2 30°	2	3,82	5	4-5	278	(2)	20087672
CSNA 20 RS 300/3 30°	3	5,73	7,5	4-5	278	(2)	20087673

- (1) Equipped with brackets for sloping roof
 (2) Equipped with brackets for flat roof, tilt 30°




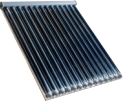
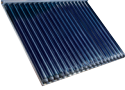
ACCESSORIES

Description	Code
1" 1/4 - 1,5 kW electrical resistance kit	20006605
1" 1/4 - 3,0 kW single-phase electrical resistance kit	20094253
3/4" thermostatic mixing valve kit	20020778
2,5 kg glycol kit	20006441
5,0 kg glycol kit	4383085

Other available accessories at page 202.

SOLAR COLLECTORS



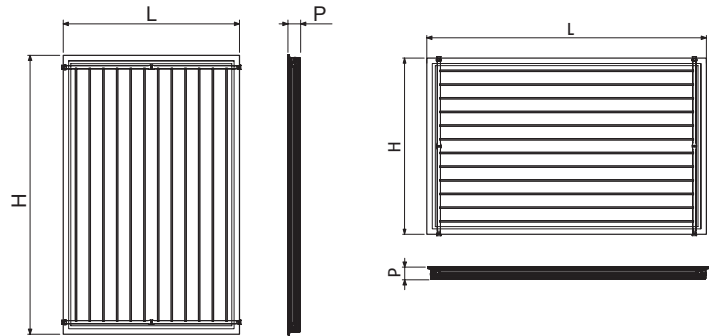
		VERTICAL		HORIZONTAL	
		2 FITTINGS	4 FITTINGS	4 FITTINGS	
FLAT PLATE	SURFACE 2,30 m ²	 <p>CSAL 25 RS Packages: 1 pc 2 - 3 - 5 pcs page 165</p>	 <p>RPS 25/4 Packages: 1 pc 2 - 5 pcs page 162</p>	 <p>RPS 25/4 Packages: 1 pc 2 - 5 pcs page 162</p>	
	SURFACE 1,91 m ²		 <p>CSAL 20 RS Packages: 1 pc 2 - 3 - 7 pcs page 167</p>		
VACUUM TUBES	SURFACE 2,77 m ²	 <p>CSV 25 R Packages: 1 pc 5 pcs page 169</p>			
	SURFACE 3,91 m ²	 <p>CSV 35 R Packages: 1 pc 5 pcs page 169</p>			

Solar collectors – Forced circulation

RPS 25/4



- Flat plate solar collectors both for vertical and horizontal installation (2,3 m²)
- Aluminium frame
- Aluminium absorber with high selective coating (TiNOx Energy Al)
- 4 fittings
- Protection film as standard



Description	L mm	H mm	P mm	Net weight kg
RPS 25/4	1195	2004	85	44
2 collectors RPS 25/4	1195	2004	85	88
5 collectors RPS 25/4	1195	2004	85	220

The solar collector RPS 25/4 can be used both for vertical and horizontal installations.

It is equipped with an aluminum absorber plate with high selective finishing in TiNOx Energy Al that allows 95% energy absorption on the surface and reduce its emission to 4%. On the plate are welded harp-shaped pipes through which the heat-transfer fluid runs. The high transparency sun glass guarantees high transmissivity.

Along with the rock wool insulation, that is 40 mm thickness, guarantees high efficiency even in case of bad weather conditions.

The solar collector is provided with 4 x 1" floating fittings that ease the connection of collectors and the maintenance operations. It is possible to connect in series up to 6 panels in case of horizontal installations and up to 10 panels in case of vertical installations. A film is provided as standard to protect the collector from overheating before the system starts working.

A wide range of accessories and fixing systems is available to ensure maximum installation flexibility.

The solar collector complies with EN 12975, ISO 9806 and is Solar Keymark certified.

5 year warranty.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Stagnation temperature °C	Notes	Code
	Gross area m ²	Absorber area m ²	η_0	a1 W/m ² k	a2 W/m ² k ²			
RPS 25/4	2,30	2,14	0,802	4,28	0,0064	197	(1)	20127137
2 collectors RPS 25/4	4,60	4,30	0,802	4,28	0,0064	197	(2)	20140510
5 collectors RPS 25/4	11,50	10,75	0,802	4,28	0,0064	197	(2)	20140511

η_0 = optical efficiency.

a1, a2 = heat loss coefficients.

(1) One single collector in one package

(2) Collectors supplied in pallet of 2 or 5 pcs

ACCESSORIES FOR VERTICAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Kit of two fittings to tighten terminals		20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645
INSET INSTALLATION FOR VENTILATED ROOFS (MINIMUM 20° SLOPE)		
Inset kit for 1 collector		20145347
Inset kit for 2 collectors		20145351
Inset kit for 3 collectors		20148401
Inset kit for 4 collectors		20148404
Inset kit for 5 collectors		20149352
Inset kit for 6 collectors		20149353

(1) Optional component, to be installed at the highest point in the solar loop
Other available accessories at page 202.

ACCESSORIES FOR HORIZONTAL INSTALLATION

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132221
Fittings kit for stainless steel pipe		20132222
Kit of two fittings to tighten terminals	(2)	20094627
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //	(3)	20104698
Brackets kit for 2 collectors in //	(3)	20104699
Brackets kit for 3 collectors in //	(3)	20104701
Brackets kit for 4 collectors in //	(3)	20104704
Brackets kit for 5 collectors in //	(3)	20104705
Brackets kit for 6 collectors in //	(3)	20104708
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof	(3)	20104711
Brackets kit for 2 collectors at 30° for flat roof	(3)	20104713
Brackets kit for 3 collectors at 30° for flat roof	(3)	20104718
Brackets kit for 4 collectors at 30° for flat roof	(3)	20104721
Brackets kit for 5 collectors at 30° for flat roof	(3)	20104722
Brackets kit for 6 collectors at 30° for flat roof	(3)	20104727
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof	(3)	20104730
Brackets kit for 2 collectors at 45° for flat roof	(3)	20104732
Brackets kit for 3 collectors at 45° for flat roof	(3)	20104734
Brackets kit for 4 collectors at 45° for flat roof	(3)	20104737
Brackets kit for 5 collectors at 45° for flat roof	(3)	20104738
Brackets kit for 6 collectors at 45° for flat roof	(3)	20104150
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector	(3)	20104741
Undertile brackets kit for 2 collectors	(3)	20104742
Undertile brackets kit for 3 collectors	(3)	20104743
Undertile brackets kit for 4 collectors	(3)	20104745
Undertile brackets kit for 5 collectors	(3)	20104746
Undertile brackets kit for 6 collectors	(3)	20104748
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector	(3)	20104749
Undertile adjustable brackets kit for 2 collectors	(3)	20104750
Undertile adjustable brackets kit for 3 collectors	(3)	20104761
Undertile adjustable brackets kit for 4 collectors	(3)	20104762
Undertile adjustable brackets kit for 5 collectors	(3)	20104765
Undertile adjustable brackets kit for 6 collectors	(3)	20104768

(1) Optional component, to be installed at the highest point in the solar loop.

(2) To use eventually to integrate the brackets kits (see note (3)).

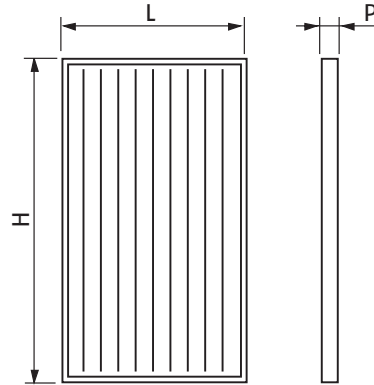
(3) The brackets kit include:

- "male" terminal fittings, as required in installation with flow/return on the upper side (as shown in the manual). In case of a different installation, use code 20094627;
- flexible connections between collectors.

Other available accessories at page 202.

Solar collectors - Forced circulation

CSAL 25 RS



- Flat plate solar collectors for vertical installation (2,5 m²)
- Aluminium frame
- Copper harp-shaped exchanger
- Aluminium absorber with high selective coating (TiNO_x Energy Al)
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
CSAL 25 RS	2003	1144	85	40
2 collectors CSAL 25 RS	2003	1144	85	80
3 collectors CSAL 25 RS	2003	1144	85	120
5 collectors CSAL 25 RS	2003	1144	85	200

Solar collector CSAL 25 RS is provided with an alluminium absorber plate with high selective coating made of TiNO_x Energy Al, wich allows an energy absorption of 95% from the sun's rays on the surface and reduces its emission to 4%. The absorber plate is ultrasonically welded to 12 copper harp-shaped pipes trough wich the heat-transfer fluid runs.

The tempered solar glass, wich is 3.2 mm thickness, along with the rock wool insulation, wich is 40 mm thickness on the bottom side, ensure high efficiency even in case of bad weather conditions.

The solar collector has been designed with two 1" fittings to make the connection in series of collectors easier (up to a max of 6) and to ensure low head losses (the heat-trasfer liquid flows trough the collectors in parallel) and high efficiency. Two of the four connections need to be closed by brass screw plugs.

A film is provided as standard to protect the collector from overheating before the system starts working.

The solar collector complies with the EN 12975 directive and is Solar Keymark certified.

A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Maximum temperature °C	Notes	Code
	Gross area m ²	Absorber area m ²	η ₀	a ₁ W/m ² ·K	a ₂ W/m ² ·K ²			
CSAL 25 RS	2,3	2,15	0,787	4,10	0,0084	197	(1)	20094516
2 collectors CSAL 25 RS	4,6	4,30	0,787	4,10	0,0084	197	(2)	20104587
3 collectors CSAL 25 RS	6,9	6,45	0,787	4,10	0,0084	197	(3)	20104588
5 collectors CSAL 25 RS	11,5	10,75	0,787	4,10	0,0084	197	(4)	20104592

- (1) One single collector in one package.
- (2) Collectors supplied in pallet of 2 pcs.
- (3) Collectors supplied in pallet of 3 pcs.
- (4) Collectors supplied in pallet of 5 pcs.

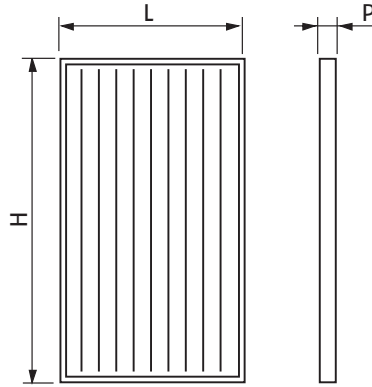
ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Replacement kit for CSAL 25 R and CSL 25 R		20108732
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104603
Brackets kit for 2 collectors in //		20104604
Brackets kit for 3 collectors in //		20104605
Brackets kit for 4 collectors in //		20104606
Brackets kit for 5 collectors in //		20104610
Brackets kit for 6 collectors in //		20104611
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104616
Brackets kit for 2 collectors at 30° for flat roof		20104618
Brackets kit for 3 collectors at 30° for flat roof		20104619
Brackets kit for 4 collectors at 30° for flat roof		20104621
Brackets kit for 5 collectors at 30° for flat roof		20104622
Brackets kit for 6 collectors at 30° for flat roof		20104623
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104624
Brackets kit for 2 collectors at 45° for flat roof		20104625
Brackets kit for 3 collectors at 45° for flat roof		20104626
Brackets kit for 4 collectors at 45° for flat roof		20104627
Brackets kit for 5 collectors at 45° for flat roof		20104628
Brackets kit for 6 collectors at 45° for flat roof		20104629
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104630
Undertile brackets kit for 2 collectors		20104632
Undertile brackets kit for 3 collectors		20104634
Undertile brackets kit for 4 collectors		20104635
Undertile brackets kit for 5 collectors		20104636
Undertile brackets kit for 6 collectors		20104637
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104638
Undertile adjustable brackets kit for 2 collectors		20104640
Undertile adjustable brackets kit for 3 collectors		20104642
Undertile adjustable brackets kit for 4 collectors		20104643
Undertile adjustable brackets kit for 5 collectors		20104644
Undertile adjustable brackets kit for 6 collectors		20104645

(1) Optional component, to be installed at the highest point in the solar loop.
Other available accessories at page 202.

Solar collectors - Forced circulation

CSAL 20 RS



- Flat plate solar collectors for vertical installation (2 m²)
- Aluminium frame
- Copper harp-shaped exchanger
- Aluminium absorber with high selective coating (TiNO_x Energy Al)
- Protection film as standard

Description	L mm	H mm	P mm	Net weight kg
CSAL 20 RS	1818	1048	70	30
2 collectors CSAL 20 RS	1818	1048	70	60
3 collectors CSAL 20 RS	1818	1048	70	90
7 collectors CSAL 20 RS	1818	1048	70	210

Solar collector CSAL 20 RS is provided with an alluminium absorber plate with high selective coating made of TiNO_x Energy Al, wich allows an energy absorption of 95% from the sun's rays on the surface and reduces its emission to 4%. The absorber plate is ultrasonically welded to 10 copper harp-shaped pipes trough wich the heat-transfer fluid runs. The tempered solar glass, wich is 3.2 mm thickness, along with the rock wool insulation, wich is 30 mm thickness on the bottom side, ensure high efficiency even in case of bad weather conditions. The solar collector has been designed with four 1" fittings to make the connection in series of collectors easier (up to a max of 6) and to ensure low head losses (the heat-trasfer liquid flows trough the collectors in parallel) and high efficiency. Two of the four connections need to be closed by brass screw plugs. A film is provided as standard to protect the collector from overheating before the system starts working. The solar collector complies with the EN 12975 directive and is Solar Keymark certified. A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Maximum temperature °C	Notes	Code
	Gross area m ²	Absorber area m ²	η ₀	a ₁ W/m ² k	a ₂ W/m ² k ²			
CSAL 20 RS	1,91	1,77	0,781	4,98	0,0005	192	(1)	20094521
2 collectors CSAL 20 RS	3,82	3,54	0,781	4,98	0,0005	192	(2)	20104593
3 collectors CSAL 20 RS	5,73	5,31	0,781	4,98	0,0005	192	(3)	20104595
7 collectors CSAL 20 RS	13,37	12,39	0,781	4,98	0,0005	192	(4)	20104596

- (1) One single collector in one package.
- (2) Collectors supplied in pallet of 2 pcs.
- (3) Collectors supplied in pallet of 3 pcs.
- (4) Collectors supplied in pallet of 7 pcs.

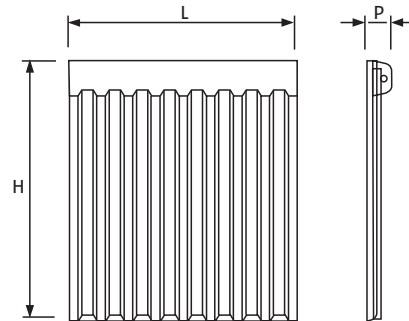
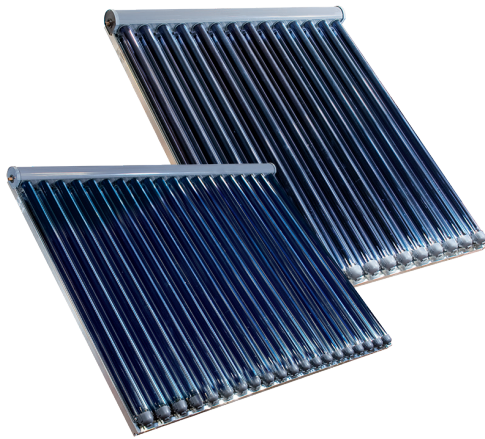
ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe		20132143
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
Replacement kit for CSAL 20 R and CSL 20 R		20108733
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Brackets kit for 1 collector in //		20104652
Brackets kit for 2 collectors in //		20104654
Brackets kit for 3 collectors in //		20104656
Brackets kit for 4 collectors in //		20104659
Brackets kit for 5 collectors in //		20104660
Brackets kit for 6 collectors in //		20104662
INSTALLATION AT 30° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 30° for flat roof		20104664
Brackets kit for 2 collectors at 30° for flat roof		20104666
Brackets kit for 3 collectors at 30° for flat roof		20104667
Brackets kit for 4 collectors at 30° for flat roof		20104673
Brackets kit for 5 collectors at 30° for flat roof		20104675
Brackets kit for 6 collectors at 30° for flat roof		20104676
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Brackets kit for 1 collector at 45° for flat roof		20104677
Brackets kit for 2 collectors at 45° for flat roof		20104679
Brackets kit for 3 collectors at 45° for flat roof		20104680
Brackets kit for 4 collectors at 45° for flat roof		20104682
Brackets kit for 5 collectors at 45° for flat roof		20104683
Brackets kit for 6 collectors at 45° for flat roof		20104684
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE BRACKETS		
Undertile brackets kit for 1 collector		20104685
Undertile brackets kit for 2 collectors		20104686
Undertile brackets kit for 3 collectors		20104687
Undertile brackets kit for 4 collectors		20104688
Undertile brackets kit for 5 collectors		20104690
Undertile brackets kit for 6 collectors		20104691
PARALLEL INSTALLATION ON PITCHED ROOF WITH UNDERTILE ADJUSTABLE BRACKETS		
Undertile adjustable brackets kit for 1 collector		20104692
Undertile adjustable brackets kit for 2 collectors		20104693
Undertile adjustable brackets kit for 3 collectors		20104694
Undertile adjustable brackets kit for 4 collectors		20104695
Undertile adjustable brackets kit for 5 collectors		20104696
Undertile adjustable brackets kit for 6 collectors		20104697

(1) Optional component, to be installed at the highest point in the solar loop.
Other available accessories at page 202.

Solar collectors – Forced circulation

CSV R



- Vacuum tube solar collectors for vertical installation (2,77 m² for 14 tubes and 3,91 m² for 20 tubes)
- U-shaped copper exchanger
- Double-wall vacuum glass tubes (Sydney type)

Description	L mm	H mm	P mm	Net weight kg
Collector CSV 25 R	1600	1730	145	52
5 collectors CSV 25 R	8000	1730	145	260
Collector CSV 35 R	2260	1730	145	74
5 collectors CSV 35 R	11300	1730	145	370

Solar collectors CSV 25 R and CSV 35 R have respectively 14 and 20 vacuum double-walled glass Sydney tubes, containing a U-shaped copper pipe, which is mechanically fixed to an aluminium circumferential absorber, whose external surface is provided with the selective absorbing coat.

Copper pipes are connected in parallel and the heat-transfer liquid runs through them going downwards and then rising back again while absorbing heat from the direct solar irradiation reflected by a CPC mirror (Compound Parabolic Concentrator).

The double-walled glass tube contains a vacuum thermal insulation called "termos", ensuring high performances even in the event of sudden changes between the average operating temperature of the heat-transfer liquid and the ambient temperature, which are typical of those areas with very cold weather conditions or industrial applications.

The solar collector is provided with hydraulic fittings to be tightened on Ø18 pipes; it is possible to connect up to 6 collectors in series. Glass tubes and CPC reflecting mirror are easy to replace and do not require to empty the solar circuit.

The solar collector CSV R complies with the EN12975 directive and is Solar Keymark certified.

A wide range of accessories and fixing elements is available to meet all installation requirements.

TECHNICAL DATA

Description	Solar collectors		Absorber data			Maximum temperature °C	Notes	Code
	Gross area m ²	Absorber area m ²	η ₀	a ₁ W/m ² ·K	a ₂ W/m ² ·K ²			
Collector CSV 25 R	2,77	2,69	0,700	1,15	0,011	268	(1)	20023353
5 collectors CSV 25 R	13,85	13,45	0,700	1,15	0,011	268	(2)	20028583
Collector CSV 35 R	3,91	3,84	0,700	1,15	0,011	268	(1)	20023416
5 collectors CSV 35 R	19,55	19,20	0,700	1,15	0,011	268	(2)	20028584

(1) One single solar collector in one package.
 (2) Pallet of 5 pcs of solar collectors.

ACCESSORIES

Description	Notes	Code
Manual solar air vent kit	(1)	20026577
Fittings kit to be tightened to connect the CSV R solar collectors with copper pipes and for the connection between CSV R solar collectors		20027281
Fittings kit to be tightened to connect the CSV R solar collectors with flexible stainless-steel pipes (not to be used between solar collectors)		20027289
Flexible stainless steel pipe kit Ø16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383254
Flexible stainless steel pipe kit Ø16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)		4383255
20 kg premixed glycol for CSV R (heat-transfer fluid ready to use, suitable for vacuum pipes collectors, frost protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
PARALLEL INSTALLATION ON PITCHED ROOF WITH STUD SCREW		
Fixing kit in // for 1 collector CSV 25 R		20028595
Fixing kit in // for 2 collectors CSV 25 R		20028596
Fixing kit in // for 3 collectors CSV 25 R		20028597
Fixing kit in // for 4 collectors CSV 25 R		20028598
Fixing kit in // for 5 collectors CSV 25 R		20028600
Fixing kit in // for 6 collectors CSV 25 R		20028601
Fixing kit in // for 1 collector CSV 35 R		20031614
Fixing kit in // for 2 collectors CSV 35 R		20031615
Fixing kit in // for 3 collectors CSV 35 R		20031616
Fixing kit in // for 4 collectors CSV 35 R		20031617
Fixing kit in // for 5 collectors CSV 35 R		20031618
Fixing kit in // for 6 collectors CSV 35 R		20031619
INSTALLATION AT 45° ON FLAT ROOF WITH STUD SCREW		
Fixing kit at 45° for 1 collector CSV 25 R		20028588
Fixing kit at 45° for 2 collectors CSV 25 R		20028589
Fixing kit at 45° for 3 collectors CSV 25 R		20028591
Fixing kit at 45° for 4 collectors CSV 25 R		20028592
Fixing kit at 45° for 5 collectors CSV 25 R		20028593
Fixing kit at 45° for 6 collectors CSV 25 R		20028594
Fixing kit at 45° for 1 collector CSV 35 R		20031620
Fixing kit at 45° for 2 collectors CSV 35 R		20031621
Fixing kit at 45° for 3 collectors CSV 35 R		20031622
Fixing kit at 45° for 4 collectors CSV 35 R		20031623
Fixing kit at 45° for 5 collectors CSV 35 R		20031624
Fixing kit at 45° for 6 collectors CSV 35 R		20031625

(1) Optional component, to be installed at the highest point in the solar loop.

NOTE: It is necessary to order the glycol and the suitable fittings.

Other available accessories at page 202.

SOLAR DHW AND STORAGE CYLINDERS



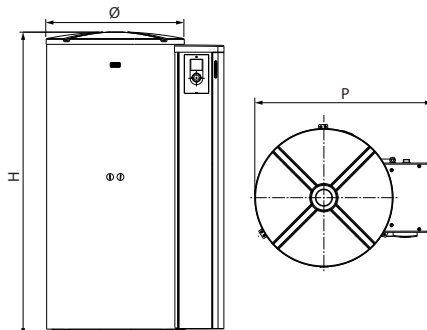
HEAT -EXCHANGERS (COILS)

	0 COIL	1 COILS	2 COILS	3 COILS	FLANGES*
DHW SOLAR CYLINDER		 <p>RBC 1S 150-200-300 430-550-800 1000 liters</p> <p>page 179</p>	 <p>RIELLO RBS 2S Ready-i 200-300 430 liters</p> <p>page 172</p>		 <p>7200/3F HV PLUS 800-1000-1500 2000-3000 liters</p> <p>page 177</p>
		 <p>7200 HP 300-500 800 liters</p> <p>page 183</p>	 <p>RBS 2S 200-300-430-550 800-1000 liters</p> <p>page 175</p>		
		 <p>7200 V PRIME 200-300-430 550-800 1000 liters</p> <p>page 181</p>	 <p>7200/2 HV PLUS 1500-2000 liters</p> <p>page 177</p>		
COMBINED STORAGE TANK		 <p>7200 KOMBI PLUS 550-800 1000 liters</p> <p>page 187</p>		 <p>7200 KOMBISOLAR³⁵ 430-550-750 1000 liters</p> <p>page 185</p>	
PUFFER		 <p>7000/S 1000-1500 liters</p> <p>page 189</p>			 <p>7000/F* 2000-3000 5000 liters</p> <p>page 189</p>
HOT/COLD PUFFER	 <p>7000 ACI PLUS 60-120-200-300 400-500-800 1000-1500 2000 liters</p> <p>page 191</p>				

* Flanges for the insertion of heat-exchangers (coils).

Double-coil solar cylinders

Riello RBS 2S Ready-i



- Double-coil solar cylinder
- Domestic hot water production
- Equipped with pump station and differential controller
- Erp Ready – Energy efficiency class B

Description	H mm	P mm	Ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S Ready-i	1338	789	604	50	115
RBS 300 2S Ready-i CLASS A	1838	789	604	50	140
RBS 300 2S Ready-i	1838	789	604	50	140
RBS 430 2S Ready-i	1644	940	755	50	160

(*) Dimensions with insulation
 (**) Insulation thickness

Steel double-coil solar cylinders of high energy efficiency (all models are class B), with embossed ABS finish. The thick insulation is obtained by direct foaming method and the internal glazed enamel treatment (vitrification, according to DIN 4753) ensures absolute hygiene and make cleaning easier.

The cylinder and the elliptic coils have been carefully designed to reach the best performances in terms of heat exchange, recovery time and stratification.

The column contains all the solar accessories, differential controller, in line hydraulic fittings and the inspection flange, placed between the two coils in order to facilitate cleaning and allow to use an additional electric resistance; all components are assembled, wired and tested. It is possible to install 2 cylinders of the same capacity in parallel in order to increase the volume and the exchange surface (RBS 2S Ready-i + RBS 2S + installation kit in parallel).

Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL GENERAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
RBS 200 2S Ready-i	208	99	10	62		20119541
RBS 300 2S Ready-i CLASS A	301	99	10	50		20119547
RBS 300 2S Ready-i	301	99	10	69		20119542
RBS 430 2S Ready-i	442	99	10	60		20119543

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S Ready-i	3,5	0,7	400	16,1	10	(1)
RBS 300 2S Ready-i CLASS A	4,0	0,8	572	23,0	10	(1)
RBS 300 2S Ready-i	4,0	0,8	572	23,0	10	(1)
RBS 430 2S Ready-i	5,0	1,0	774	31,4	10	(1)

(1) According to DIN 4708 with $\Delta T=20$ °C (80/60 °C) on exchanger.

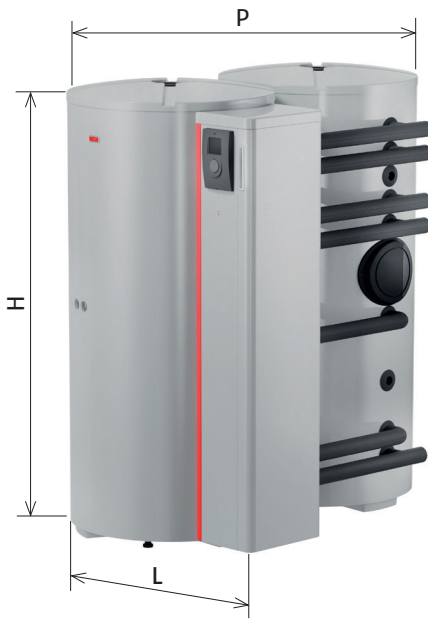
LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	Max operation pressure bar
RBS 200 2S Ready-i	3,5	0,7	10
RBS 300 2S Ready-i CLASS A	5,0	1,0	10
RBS 300 2S Ready-i	5,0	1,0	10
RBS 430 2S Ready-i	7,0	1,4	10

ACCESSORIES

Description	Code
Electronic anode kit	20123853
Curve kit for electronic anode	20123851
Handles kit (for RBS 200-300 models)	20123854
Handles kit (only for RBS 430 models)	20123855
Recirculation kit	20123849
Integration kit with circulator (for 200 model)	20123847
Integration kit with circulator (for RBS 300-430 models)	20123846
Integration kit without circulator	20123848
Additional temperature probe kit for solar collector	20125097
Additional temperature probe kit for cylinder	20123856
Single-phase electrical resistance 1,5 kW	20119911
Single-phase electrical resistance 2,2 kW	20119912
Single-phase electrical resistance 3,0 kW	20119913
Three-phase electrical resistance 3,8 kW	20119914

PARALLEL INSTALLATION



Configuration	H mm	L mm	P mm
2x200 2S	1338	789	1218
2x300 2S	1838	789	1218
2x430 2S	1644	940	1520

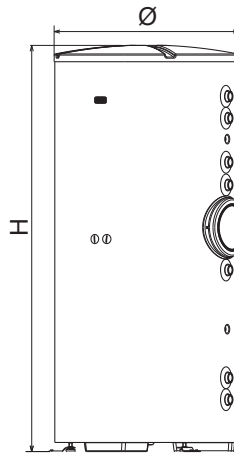
PARALLEL INSTALLATION ACCESSORIES

Description	Code
2 cylinders connection kit (models 200–300 liters)	20120542
2 cylinders connection kit (models 430 liters)	20120543

Connection kit can be completed with recirculation kit and integration kit without circulator (see Riello RBS "S Ready-i accessories").
For electronic anodes utilization you can refer to the specific accessories of cylinders Riello RBS 2S Ready-i and Riello RBS 2S.
For details regarding to the Riello RBS 2S Ready-i and RBS 2S consult the related pages.

Double-coil solar cylinders

RBS 2S



- Double-coil solar cylinder
- Domestic hot water production
- Erp Ready – Energy efficiency class B

Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
RBS 200 2S	1338	604	50	86
RBS 300 2S	1838	604	50	108
RBS 430 2S	1644	755	50	131
RBS 550 2S	1988	755	50	171
RBS 800 2S	1846	1000	100	222
RBS 1000 2S	2171	1000	100	245

(*) Dimensions with insulation
 (**) Insulation thickness

Steel double coil solar cylinders of high energy efficiency (all models are class B) and internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits. The RBS cylinders, with embossed ABS finish, are provided with a thick insulation obtained by direct foaming method for models up to 550 liters and made of removable shells for models 800 and 1000 (to be assembled).

The cylinder and the elliptic coils have been carefully designed to reach the best performance in terms of heat exchange, recovery time and stratification. The hydraulic connections are arranged on a single row, as well as the inspection flange between the two coils, in order to facilitate cleaning and to insert an additional electric resistance.

Through a specific kit, RBS 2S can operate in parallel with one RBS 2S Ready-i of the same capacity up to 550 liters (RBS 2S Ready-i + RBS 2S + installation kit in parallel). Specific transport handles are available as accessories; they have been studied to allow easy access through a 800 mm door.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
RBS 200 2S	208	99	10	62	B		20116675
RBS 300 2S	301	99	10	69	B		20116335
RBS 430 2S	442	99	10	60	B		20117339
RBS 550 2S	551	99	10	68	B		20116587
RBS 800 2S	731	99	7	94	B	(1)	20132268
RBS 1000 2S	883	99	7	101	B	(1)	20132269

(1) Insulation to be assembled.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBS 200 2S	3,5	0,7	400	16,1	10	(1)
RBS 300 2S	4,0	0,8	572	23,0	10	(1)
RBS 430 2S	5,0	1,0	774	31,4	10	(1)
RBS 550 2S	5,0	1,0	774	31,4	10	(1)
RBS 800 2S	8,0	1,6	1240	50,0	7	(1)
RBS 1000 2S	8,0	1,6	1240	50,0	7	(1)

(1) According to DIN 4708 with $\Delta T=20$ °C (80/60 °C) on exchanger.

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	Max operation pressure bar
RBS 200 2S	3,5	0,7	10
RBS 300 2S	5,0	1,0	10
RBS 430 2S	7,0	1,4	10
RBS 550 2S	9,0	1,8	10
RBS 800 2S	11,5	2,3	7
RBS 1000 2S	13,5	2,7	7

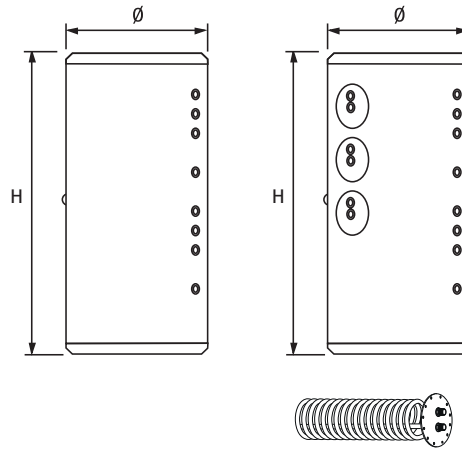
ACCESSORIES

Description	Code
Electric anode with plug	20055206
Curve for electronic anode kit	20123851
Thermometer kit	20123850
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	20119911
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	20119912
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	20119913
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	20119914
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	20131670

NOTE: for installation in parallel please consult the "RBS 2S Ready-I" page.

Flanged and double-coil DHW cylinders

7200/3F HV PLUS 7200/2 HV PLUS



- Flanged and double-coil DHW cylinders
- Domestic hot water Production
- Heat exchanger coil kit for 7200/3F to be ordered separately according to the capacity

Description	H (*) mm	\varnothing (*) mm	IT (**) mm	Net weight kg
7200/2 - 1500 HV PLUS	2185	1200	100	324
7200/2 - 2000 HV PLUS	2470	1300	100	544
7200/3F - 800 HV PLUS	1875	990	100	168
7200/3F - 1000 HV PLUS	2105	990	100	188
7200/3F - 1500 HV PLUS	2185	1200	100	303
7200/3F - 2000 HV PLUS	2470	1300	100	321
7200/3F - 3000 HV PLUS	2730	1450	100	543

(*) Dimensions with insulation
(**) Insulation thickness

Vertical steel double-coil solar cylinders, with internal double-layer enamel (according to DIN 4753) bacteriologically inert to ensure the absolute hygiene of water, to avoid limestone deposits and make cleaning easier. The outer coating made of hard plastic provides a better aesthetic and a high solidity of the product, without compromising the installation in terms of ease of use and flexibility. The cylinders, are already provided with CFC-free polyurethane hard and soft removable insulation (thickness of 100 mm) to make the installation easier; insulation supplied separately for the 2000-liters model. The care taken to study the geometry of solar cylinder and coils provides the best stratification, heat exchange and recovery time. Easy maintenance thanks to the lateral flange for inspection, anticorrosion anodic protection. It is possible to use additional electrical resistance.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200/2 - 1500 HV PLUS	1390	99	8	162			20136237
7200/2 - 2000 HV PLUS	1950	99	8	186			20136239
7200/3F - 800 HV PLUS	749	99	10	130		(1)	20136273
7200/3F - 1000 HV PLUS	855	99	10	142		(1)	20136274
7200/3F - 1500 HV PLUS	1430	99	8	162		(1)	20136275
7200/3F - 2000 HV PLUS	1990	99	8	186		(1)	20136277
7200/3F - 3000 HV PLUS	2959	99	8	-	-	(1)	20052788

(1) Flanged solar cylinder supplied without coils, to be ordered separately.
NOTE: flanged solar cylinder supplied without coils, to be ordered separately.

UPPER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	10,4	1,8	1200	47	110	10	(1)
7200/2 - 2000 HV PLUS	16,9	2,8	1800	73	110	10	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger

LOWER COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200/2 - 1500 HV PLUS	19,4	3,4	2200	88	110	10	(1)
7200/2 - 2000 HV PLUS	28,1	4,5	2900	120	110	10	(1)

(1) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger

ACCESSORIES

Description	Notes	Code
Three-phase electrical resistance 3,8 kW of 1" 1/2		20020707
Tin coated copper coil kit 2,63 m ² - 1,74 l - 10 bar	(1)	20055205
Tin coated copper coil kit 4,54 m ² - 3,56 l - 10 bar	(1)	4383089
Tin coated copper coil kit 6,34 m ² - 5,10 l - 10 bar	(1)(2)	4383087
Electric anode with plug		20055206

(1) Only for 7200/3F HV PLUS.

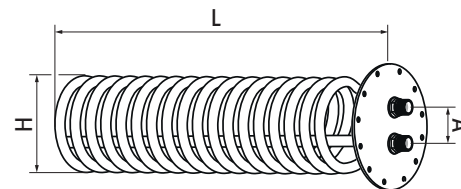
(2) Not suitable for 7200/3F 800 HV Plus and 7200/3F 1000 HV Plus.

Pump stations and differential controller are available at page 194.

Other available accessories at page 202.

HEAT EXCHANGER COIL

Description	L mm	H mm	A mm	Net weight kg
Tin coated copper coil kit 2,63 m ²	580	DN200	80	14,9
Tin coated copper coil kit 4,54 m ²	750	DN200	80	22,6
Tin coated copper coil kit 6,34 m ²	980	DN200	80	29,0



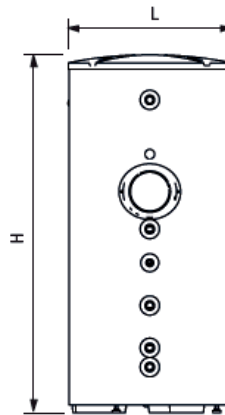
TECHNICAL DATA

Description	Water exchanger surface m ²	Absorbed power (*) kW	Necessary capacity heat exchanger (*) m ³ /h	DHW output (*) m ³ /h	Pressure loss mbar	Maximum operating pressure of coil bar	Pipe diameter mm	Pipe's number	Water capacity l
Tin coated copper coil kit 2,63 m ²	2,63	53	2,3	1,3	748	10	18X1	1	1,74
Tin coated copper coil kit 4,54 m ²	4,54	91	3,9	2,2	720	10	18X1	2	3,56
Tin coated copper coil kit 6,34 m ²	6,34	127	5,5	3,1	2017	10	18X1	2	5,10

(*) According to DIN 4708, to get domestic hot water with ΔT 35 °C (10/45 °C) and ΔT 20 °C (80/60 °C) on the heat-exchanger, please observe the values showed in the datasheet concerning absorbed power and necessary capacity heat-exchanger.

Single coil DHW cylinders

RBC 1S



- Steel single coil vertical cylinders
- Domestic hot water production

Description	H (*) mm	∅ (*) mm	IT (**) mm	Net weight (*) kg
RBC 150 1S	1088	604	52	62
RBC 200 1S	1338	604	52	78
RBC 300 1S	1838	604	52	103
RBC 430 1S	1644	755	52	131
RBC 550 1S	1988	755	52	157
RBC 800 1S	1835	974	92	203
RBC 1000 1S	2155	974	92	225

(*) Dimensions and weight with insulation
 (**) Insulation thickness

Steel single coil cylinders characterized by internal glazed enamel treatment (vitrification, according to DIN 4753) to ensure maximum hygiene and facilitate cleaning of limestone deposits.

The RBC range includes 7 models from 150 to 1000 liters (Erp Ready – Energy efficiency class B) and thanks to the geometry of the tank and the elliptic section of the exchanger, it is possible to reach the best performance in terms of heat exchange (minimal thermal losses) and recovery time.

The hydraulic connections and the inspection flange are arranged on a single row in order to facilitate cleaning and to insert an additional electric resistance (optional).

Moreover the cylinders are suitable for specific transport handles available as accessories in order to allow an easy handling.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses (*) W	Energy efficiency class 	Notes	Code
RBC 150 1S	162	99	10	55	B		20124167
RBC 200 1S	207	99	10	58	B		20124168
RBC 300 1S	305	99	10	68	B		20124169
RBC 430 1S	445	99	10	73	B		20124170
RBC 550 1S	555	99	10	84	B		20124171
RBC 800 1S	735	99	7	95	B	(1)	20132270
RBC 1000 1S	890	99	7	103	B	(1)	20132271

(*) According to EN 12897:2006, Δt = 45 °C (outdoor temperature 20 °C, storage temperature 65 °C).
 (1) Insulation to be assembled.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation pressure bar	Notes
RBC 150 1S	4,25	0,85	660	27	10	(1)
RBC 200 1S	6,90	1,38	950	39	10	(1)
RBC 300 1S	8,50	1,70	1185	49	10	(1)
RBC 430 1S	10,00	2,00	1380	56	10	(1)
RBC 550 1S	19,30	2,30	1645	66	10	(1)
RBC 800 1S	21,00	2,50	1728	69	7	(1)
RBC 1000 1S	24,40	2,90	1860	75	7	(1)

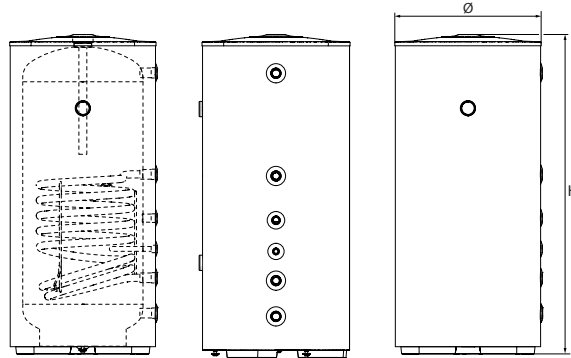
(1) According to DIN 4708 with $\Delta T=20$ °C (80/60 °C) on exchanger.

ACCESSORIES

Description	Code
Thermometer kit	20123850
Electronic anode with plug	20055206
Curve for electronic anode kit	20123851
Single-phase electrical resistance 1,5 kW (for 200-550 liters models)	20119911
Single-phase electrical resistance 2,2 kW (for 200-550 liters models)	20119912
Single-phase electrical resistance 3,0 kW (for 200-550 liters models)	20119913
Three-phase electrical resistance 3,8 kW (for 200-550 liters models)	20119914
Single-phase electrical resistance 1,5 kW (for 800-1000 liters models)	20131666
Single-phase electrical resistance 2,2 kW (for 800-1000 liters models)	20131667
Single-phase electrical resistance 3,0 kW (for 800-1000 liters models)	20131669
Three-phase electrical resistance 3,8 kW (for 800-1000 liters models)	20131670

One-coil DHW cylinders

7200 V PRIME



- Vertical double-layer enamelled steel cylinders
- One-coil cylinder for domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200.200 V PRIME	1335	605	50	68
7200.300 V PRIME	1835	605	50	91
7200.430 V PRIME	1645	755	50	121
7200.550 V PRIME	1990	755	50	142
7200.800 V PRIME	1835	1000	100	182
7200.1000 V PRIME	2165	1000	100	207

(*) Dimensions and weight with insulation
 (**) Insulation thickness

Vertical storage DHW cylinders made in steel, protected by a inner enamel coating (according to DIN 4753), which is smooth, anti-adherent and bacteriologically inert to ensure the absolute hygiene of the DHW and to avoid any possible limestone deposits and make cleaning easier. The care taken to study the geometry of the tank and the coil (with a large exchange surface) provides the best performance in terms of stratification, heat exchange and recovery time.

The efficient CFC-free polyurethane insulation, made through a direct foaming method for the models up to 550-liters and provided with excellent finishes and a hard removable insulation for the 800 and 1000 liters models, permits the reduction of heat losses to the minimum and enhances as a consequence efficiency.

- Anticorrosion anodic protection
- Analog pressure gauge standard supplied
- An electrical control board to manage the domestic hot water temperature is available as an accessory.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class 	Code
7200.200 V PRIME	210	99	10	58	B	20096892
7200.300 V PRIME	304	99	10	68	B	20096894
7200.430 V PRIME	444	99	10	73	B	20096895
7200.550 V PRIME	556	99	10	84	B	20096897
7200.800 V PRIME	735	99	7	93	B	20096899
7200.1000 V PRIME	890	99	7	98	B	20096900

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production (*) l/h	Coil power input kW	Max operation pressure bar	Notes
7200.200 V PRIME	4,8	0,78	590	590	10	(1)
7200.300 V PRIME	6,9	1,13	831	831	10	(1)
7200.430 V PRIME	9,8	1,49	1260	1260	10	(1)
7200.550 V PRIME	9,8	1,49	1260	1260	10	(1)
7200.800 V PRIME	16,3	2,47	1700	1700	10	(1)
7200.1000 V PRIME	16,3	2,47	1700	1700	10	(1)

(1) According to DIN 4708 with $\Delta T=35$ °C (80/45 °C) on exchanger

(*) Hot water production data with primary circuit inlet temperature at of 80 °C and $\Delta T=35$ °C on the secondary circuit.

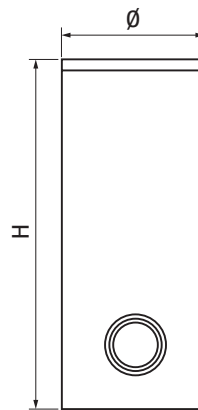
ACCESSORIES

Destination	Notes	Code
Electric control panel for storage cylinders	(1)	4030011
Electronic anode with plug		20055206

(1) Suitable for models up to 500 liters.

DHW solar cylinder

7200 HP



- Cylinder for heat pump
- Domestic hot water production

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200 300 HP	1615	600	50	119
7200 500 HP	1690	750	50	166
7200 800 HP	1875	990	100	217

(*) Dimensions and weight with insulation
 (**) Insulation thickness

DHW steel cylinders for vertical installation, protected by inner enamel and equipped with a coil (with a large exchange surface) for a suitable combination with a heat pump and with a flange in the bottom part to allow the insertion of an exchanger (optional) for the combination with the solar thermal. Specifically designed for the application in systems with heat pumps, they allow a high heat transfer thanks to the wide exchange surface.

They are complete with sockets, a magnesium anode and with a 1"½ connection for the insertion of an electrical resistance (optional). The insulation is made of rigid polyurethane for the sizes 300 and 500 and soft polyurethane for size 800.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
7200 300 HP	263	99	6	85		(1)	4383500
7200 500 HP	470	99	6	112		(2)	4383501
7200 800 HP	702	99	6	130			20136293

- (1) To combine with heat-pump Family ES and NHX.
 (2) To combine with heat-pump Family ES and NHX.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7200 300 HP	23,0	4	500	19	110	10	(1)
7200 500 HP	51,5	6	800	31	110	10	(1)
7200 800 HP	60,0	7	900	38	110	10	(1)

(1) According to DIN 4708 with ΔT=10 °C (60/50 °C) on exchanger.

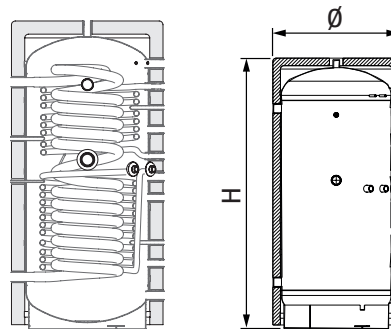
ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" 1/2	4383270
Three-phase electrical resistance 3,8 kW of 1" 1/2	20020707
0,8 m ² solar heat exchanger (for HP 300 model)	4383504
1,2 m ² solar heat exchanger (for HP 500-800 models)	4383505
Electronic anode with plug	20055206

Other available accessories at page 202.

Combined solar storage tanks

7200 KombiSolar^{2S}



- Combined storage tank
- Instantaneous production of domestic hot water and heating supplement

Description	H (*) mm	Ø (*) mm	IT (**) mm	Net weight (*) kg
7200 KOMBISOLAR 430 2S	1635	755	50	155
7200 KOMBISOLAR 550 2S	1985	755	50	177
7200 KOMBISOLAR 750 2S	1845	1000	100	218
7200 KOMBISOLAR 1000 2S	2170	1000	100	248

(*) Dimensions and weight with insulation
 (**) Insulation thickness

7200 KombiSolar^{2S} is a combi storage tank designed for the instantaneous production of domestic hot water and the heating supplement. It contains three coils: one at the bottom for the solar circuit, one at the top for the heating circuit and one in stainless steel for the production of domestic hot water.

The rapid-exchange corrugated coil in stainless steel AISI 316L, for the production of domestic hot water (bacteriologically inert), ensures the absolute hygiene of water, while preventing bacteria from reproducing and limestone deposits from occurring, together with providing a fast, efficient and comfortable domestic hot water production.

The storage tank is specifically designed to enhance flexibility in installation through the synergetic and organic combination of thermal solar systems, traditional or biomass generators (also with open vessel) and heat pumps.

The presence of an integrated diffusion tube permits a high stratification of temperature along the solar tank height.

The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class 	Notes	Code
7200 KOMBISOLAR 430 2S	430	99	3	78			20088789
7200 KOMBISOLAR 550 2S	550	99	3	85			20088790
7200 KOMBISOLAR 750 2S	750	99	5	93		(1)(2)	20145329
7200 KOMBISOLAR 1000 2S	1000	99	5	98		(1)	20145332

(1) Supplied with insulation removed.
 (2) Progressively available when the corresponding previous model runs out.

COIL HEAT EXCHANGER FOR SANITARY APPLICATION TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	Max operation temperature °C	Max operation pressure bar
7200 KOMBISOLAR 430 2S	23,6	4,5	99	6
7200 KOMBISOLAR 550 2S	23,6	4,5	99	6
7200 KOMBISOLAR 750 2S	30,4	5,8	99	6
7200 KOMBISOLAR 1000 2S	30,4	5,8	99	6

COIL HEAT EXCHANGER FOR PRIMARY CIRCUIT TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	Max operation pressure bar
7200 KOMBISOLAR 430 2S	11,0	1,80	10
7200 KOMBISOLAR 550 2S	12,8	2,10	10
7200 KOMBISOLAR 750 2S	17,4	2,90	10
7200 KOMBISOLAR 1000 2S	19,8	3,34	10

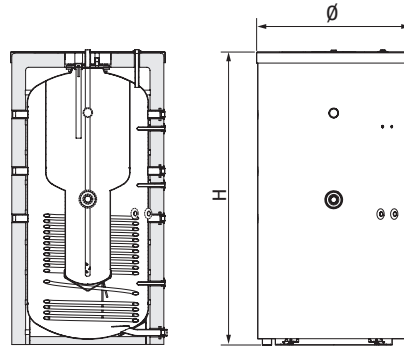
ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" 1/2	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	4383271
Single-phase electrical resistance 3,0 kW of 1" 1/2	4383272
Three-phase electrical resistance 3,8 kW of 1" 1/2	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F 3/4" connection pipe, 110 mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F 3/4", 800 mm, not insulated)	20011797
Electronic anode with plug	20055206

Other available accessories at page 202.

Combined solar storage tanks

7200 Kombi Plus



- Combined storage tank
- Production of domestic hot water and heating supplement

Description	H mm	Ø (*) mm	IT (**) mm	Net weight kg
7200.550 Kombi Plus	2055	755	50	192
7200.800 Kombi Plus	1870	990	100	210
7200.1000 Kombi Plus	2196	990	100	265

(*) Dimensions with insulation
 (**) Insulation thickness

7200 Kombi Plus is a combi storage tank (tank-in-tank technology) designed for the production of domestic hot water and the heating supplement. The completely enamelled internal tank (bacteriologically inert) is suitable to contain domestic hot water as it ensures the absolute hygiene of the water, while avoiding limestone deposits and making cleanliness easier. The storage tank is specifically designed to enhance flexibility of installation through the synergetic and organic integration with thermal solar systems, heat generators and heat pumps. The exchange surfaces and the geometry of tank provide the best performance in terms of stratification, heat exchange, recovery time and domestic hot water production (up to 2700 liters/hour). The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier. Anticorrosion anodic protection. Easy maintenance thanks to the lateral flange for inspection. It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	DHW capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Code
7200.550 Kombi Plus	388	160	99	3	95	C	20090256
7200.800 Kombi Plus	560	240	99	3	123	C	20008653
7200.1000 Kombi Plus	695	285	99	3	143	C	20011721

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Notes
7200.550 Kombi Plus	12,8	2,10	660	(1)
7200.800 Kombi Plus	16,0	2,80	800	(2)
7200.1000 Kombi Plus	19,0	3,16	1000	(2)

(1) According to DIN 4708 with ΔT=35 °C (80/45 °C) on exchanger.
 (2) According to DIN 4708 with ΔT=20 °C (80/60 °C) on exchanger.

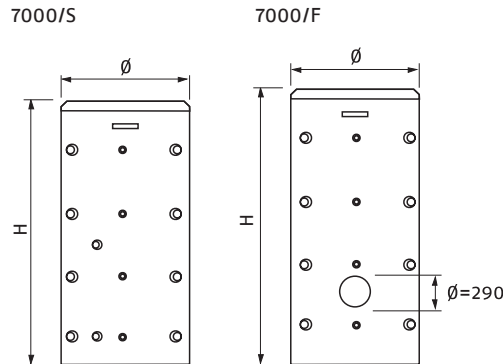
ACCESSORIES

Description	Code
Single-phase electrical resistance 1,5 kW of 1" 1/2	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	4383271
Single-phase electrical resistance 3,0 kW of 1" 1/2	4383272
Three-phase electrical resistance 3,8 kW of 1" 1/2	20020707
18L rectangular expansion vessel kit (including: mounting template for vertical solar cylinder and F-F 3/4" connection pipe, 110mm)	20005831
Flexible pipe kit to connect the solar expansion vessel (F-F 3/4", 800mm, not insulated)	20011797
Electronic anode with plug	20055206

Other available accessories at page 202.

Puffers

7000 Puffer



- Inertial storage for heating supplement

Description	H (*) mm	\varnothing (*) mm	IT (**) mm	Net weight (*) kg
7000.1000/S	2115	990		172
7000.1500/S	2090	1200		239
7000.2000/F	2470	1300	-	330
7000.3000/F	2700	1450	-	415
7000.5000/F	2830	1800	-	570

(*) Dimensions and weight with insulation
 (**) Insulation thickness

Storage tanks 7000 Puffer can be easily integrated into solar systems and are designed for heating supplement (not for DHW production or storage). The care taken to study the geometry of the tank (also provided with inner diaphragm) and coil (only for /S models) provides the best performance in terms of stratification, heat exchange and recovery time. The connection at various heights permits the use of different heat generators and avoids affecting stratification. The CFC-free polyurethane insulation reduces heat losses and, as a consequence, enhances efficiency; the hard insulation makes the installation easier (/F models). The use of the flange (only for /F models) makes maintenance easier and allows to connect an additional exchanger. It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Maximum temperature °C	Maximum pressure bar	Thermal losses W	Energy efficiency class	Notes	Code
INERTIAL PUFFER WITH SOLAR EXCHANGER COIL							
7000.1000/S	920	99	3	143	C	(1)(2)	20136260
7000.1500/S	1410	99	3	167	C	(1)(2)	20136261
INERTIAL PUFFER WITH 1 FLANGE							
7000.2000/F	2010	99	3	190	C	(2)(3)	20136256
7000.3000/F	2959	99	3	-	-	(3)	4383411
7000.5000/F	5055	99	3	-	-	(3)	4383412

(*) With $\Delta T=35$ °C, primary temperature of 80° C and exchange flow rate 4m³/h (1000/S), 5m³/h (1500/S).
 (1) Supplied with assembled insulation.
 (2) New code available from October 2017.
 (3) Supplied with separated insulation.

COIL HEAT EXCHANGER TECHNICAL DATA

Description	Water content liters	Exchange surface m ²	DHW production l/h	Coil power input kW	Max operation temperature °C	Max operation pressure bar	Notes
7000.1000/S	14,6	2,6	2900	68	110	6	(1)
7000.1500/S	21,6	3,8	4200	99	100	6	(1)

(1) According to DIN 4708 with $\Delta T=20$ °C (80/60 °C) on exchanger.

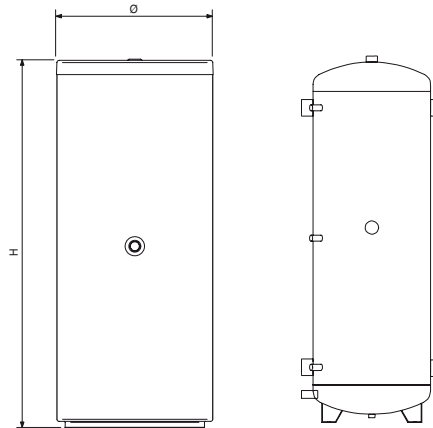
ACCESSORIES

Description	Notes	Code
4,54 m ² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 91 kW)	(1)	4383089
6,34 m ² - tin plated copper coil kit with flange coupling for models/F (coil exchanger power 127 kW)	(1)	4383087
Electronic anode with plug		2005206

(1) To use only with 7000.2000/F, 7000.3000/F and 7000.5000/F models.
Other available accessories at page 202.

Puffers

7000 ACI Plus



- Inertial storage

Description	H(*) mm	Ø(*) mm	Weight (empty) kg
7000 ACI 60 PLUS	935	400	25
7000 ACI 120 PLUS	1095	500	35
7000 ACI 200 PLUS	1395	550	45
7000 ACI 300 PLUS	1560	600	55
7000 ACI 400 PLUS	1540	700	95
7000 ACI 500 PLUS	1840	700	95
7000 ACI 800 PLUS	1800	990	115
7000 ACI 1000 PLUS	2050	990	170
7000 ACI 1500 PLUS	2165	1200	185
7000 ACI 2000 PLUS	2480	1300	305

(*) Dimensions with insulation.

Storage tanks 7000 ACI Plus can be easily integrated both into traditional systems (heat generators) and into systems using renewable sources (chillers, heat pumps). Therefore it is necessary to cope with the lack of time balance between demand and supply of energy with the help of suitable storage systems.












This product, which is supplied in a single package, is provided with a closed-cell insulation made of CFC- and HCFC-free polyurethane and is suitable for heating/cooling systems as it provides particularly excellent performances in terms of low heat losses (according to UNI TS 11300).

The care taken to study the geometry of the tank provides the best stratification, heat exchange and recovery time.

New hydraulic connections, having a larger diameter, allow the reduction of head losses when operating with reduced ΔT ; their positioning at various heights permits the use of different heat generators at the same time without affecting stratification. Ease of use is ensured by reduced weights and dimensions.

It is possible to use additional electrical resistances.

TECHNICAL DATA

Description	Cylinder capacity liters	Thermal losses W	Maximum temperature °C	Maximum pressure bar	Energy efficiency class 	Code
7000 ACI 60 PLUS	57	34	99	6	B 	20090056
7000 ACI 120 PLUS	123	50	99	6	B 	20082450
7000 ACI 200 PLUS	203	68	99	6	C 	20028093
7000 ACI 300 PLUS	277	82	99	6	C 	20028094
7000 ACI 400 PLUS	390	105	99	6	C 	20028095
7000 ACI 500 PLUS	473	129	99	6	C 	20028096
7000 ACI 800 PLUS	732	131	99	6	C 	20137619
7000 ACI 1000 PLUS	855	139	99	6	C 	20137620
7000 ACI 1500 PLUS	1420	168	99	6	C 	20137622
7000 ACI 2000 PLUS	2013	190	99	6	C 	20137624

ACCESSORIES

Description	Notes	Code
Single-phase electrical resistance 1,5 kW of 1" 1/2	(1)	4383270
Single-phase electrical resistance 2,2 kW of 1" 1/2	(1)	4383271
Single-phase electrical resistance 3,0 kW of 1" 1/2	(1)	4383272
Three-phase electrical resistance 3,8 kW of 1" 1/2	(1)	20020707
Electronic anode with plug		20055206

(1) Not compatible with 7000 ACI 60 Plus
Other available accessories at page 202.

COMPLEMENTARY ITEMS



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

**SOLAR THERMAL
AND CYLINDERS**

CENTRALIZED
HEATING

AIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

Pump stations and differential controllers

RSS & EVOSOL



- Pump station RSS
- Differential controller EVOSOL

Description	H mm	L mm	P mm	Net weight kg
RSS MRS	418	313	185	5,0
RSS MR	418	313	185	4,7
RSS R	364	228	183	4,1
RSS MR 14 MT	290	390	250	0,8
EVOSOL	170	106	52	0,3

EVOSOL is a solar regulation able to manage 9 kinds of plant layouts and meet all different domestic and professional requirements. EVOSOL is able to manage a modulating solar circulator with constant ΔT regulation between solar collector and cylinder, thus allowing the operation of the system even in case of low radiation.

The user-friendly menu and the display allow to control easily the available functions and the selected layout. The frontal access to components eases the electrical wiring; the wide range of accessories allows to customize any system.

RSS is a solar pump station available in four versions: flow and return with differential controller EVOSOL assembled on the system (MRS), flow and return (MR) and only return (R).

The pump stations RSS MRS and MR are provided with circulator pump with PWM controlling, safety devices, filling taps, non-return valve, flow and return temperature gauge. RSS R is provided with circulator pump both for ON-OFF and PWM controlling, safety devices, filling taps, flow regulator and flow meter, non-return valve and temperature gauge.

TECHNICAL DATA

Description	Connection and ball valve	Net area connectable collectors m ²	Notes	Code
RSS MRS	Flow/Return	55	(1)	20116166
RSS MR	Flow/Return	55	(2)	20116167
RSS R	Only return	20	(3)	20116168
RSS MR 14 MT	Flow/Return	30	(2)(4)	20156553

(1) Equipped with differential controller EVOSOL.

(2) Suitable only for PWM controlling.

(3) Suitable for PWM or ON-OFF controlling.

(4) Equipped with modulating circulator pump with PWM controlling (a wall mount solar controller has to be installed separately).

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe nr.	Configured schemes nr.	Code
EVOSOL	2	4	1x collector + 2x cylinders	9	20120499

ACCESSORIES

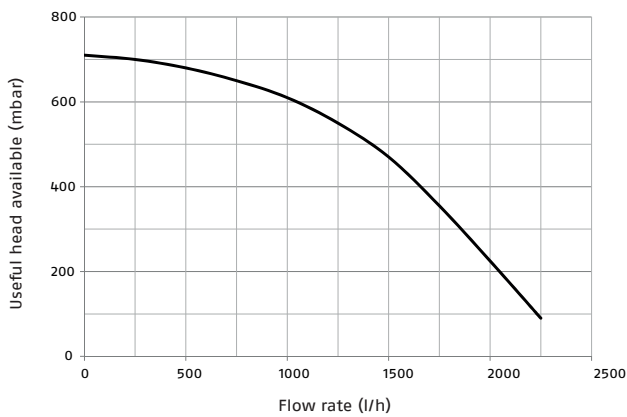
Description	Notes	Code
Electronic anode	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415
Additional temperature probe kit for solar collector		20125097
Additional temperature probe kit for cylinder		20123856
Hydraulic connections for RSS MR 14MT		20158203

- (1) Suitable for pump station with differential controller (MRS type).
- (2) Suitable for pump station without differential controller (R and MR type).

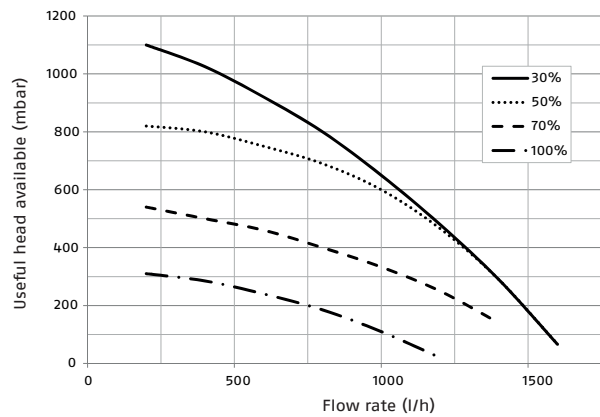
USEFUL HEAD AVAILABLE

Solar delivery and return station.
Values referred to a mix of water and 30% glycol.

RSS MRS - RSS R

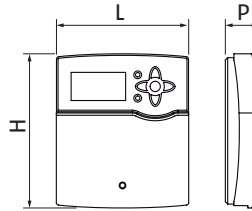


RSS MR 14 MT



Solar differential controller

Sun Pro



- Solar controller Sun Pro

Description	H mm	L mm	P mm
SUN 5 PRO 5 RS	227	156	62
SUN 14 PRO 14 RS	260	216	64

SUN PRO is a solar controller able to meet all different domestic and professional requirements, able to manage several system schemes. The design is simple and stylish and suits all environments. The menu is user-friendly, the display allows the user to easily control the functions and the selected scheme. Easy access to the electrical wiring from the front side. Wide range of accessories to customize any system.

TECHNICAL DATA

Description	Relay standard output nr.	Probe inputs nr.	Supplied probe (*) (for flat collector) nr.	Configured schemes nr.	Code
SUN 5 PRO 5 RS	5	9	2x collector + 3x cylinders	7 (+variants)	20099595
SUN 14 PRO 14 RS	14	12	2x collector + 4x cylinders	9 (+variants)	20099607

(*) Specific probes for flat collectors

ACCESSORIES

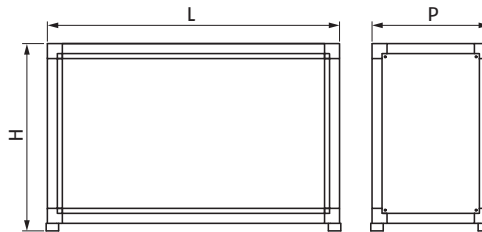
Description	Notes	Code
Electronic anode to be wired with differential controller	(1)	20123853
Electronic anode with plug	(2)	20055206
Immersion temperature probe in Platinum Pt1000, cable 2,5 m PUR (-10/+80 °C) for tanks or return pipe (FRP6 Pt1000)		4383196
Contact temperature probe with platinum gauge Pt1000, olflex cable 2,5 m (-10/+80 °C) for tanks or return pipe (FRP21 Pt1000)		4383197
Well temperature probe for high temperature in Platinum Pt1000 PTFE cable 1,5 m (-50/+230 °C) for vacuum collectors (FKP6/H Pt1000)		4383199
Probes protection kit against overvoltage (SP1)		4383415
RIELLO CALOR V40 15 flow meter (1 impulse every 10 liters), 3/4" male connection (Tmax 110 °C)		4383416

(1) Suitable for pump station with differential controller (MRS type).

(2) Suitable for pump station without differential controller (R and MR type).

Complementary items

Riello SC Sun Riello SC Acs



- Solar heat exchange units
- DHW heat exchange units
- High efficiency pump

Description	H mm	L mm	P mm	Net weight kg
SC SUN 50	610	450	260	25
SC SUN 120	835	475	226	34
SC SUN 120 ACS	835	475	226	34
SC SUN 300	900	1000	500	150
SC ACS 25	600	400	250	17
SC ACS 35	600	400	250	18
SC ACS 40	600	400	250	18
SC ACS 80	835	475	226	30
SC ACS 160	900	1000	500	158
SC ACS 225	900	1000	500	176

Riello offers complete and ready-to-install solutions when using puffer storage tanks, while optimizing stratification: heat exchange units both on the solar and the DHW sides.
 Riello SC Sun is the solar heat exchanger designed for puffer storage tanks. Its components are sized and managed to transfer the heat with maximum efficiency. The range offers three sizes: up to 50, 120 and 300 m² of exposed area.
 There is also a heat-exchanger that produces directly instantaneous DHW; it can work up to 120 m² of exposed area.
 Riello SC ACS is the heat exchanger for the instantaneous production of domestic hot water. It is designed to be connected with puffer storage tanks and ensures maximum hygiene of the treated water. The range offers five sizes: 25, 40, 80, 160 and 225 l/min.

TECHNICAL DATA

Description	Exchanged power (*) kW	Max primary output l/h	Temperature Primary min-max °C	Exchange surface m ²	Max pressure primary/secondary bar	NoteS	Code
HEAT EXCHANGER FOR SOLAR CIRCUIT							
SC SUN 50	32	1.500	2/110	0,9	6/3	(D)	20156326
SC SUN 120	52	2.400	2/110	3,0	6/6	(D)	20156327
SC SUN 300	129	6.000	2-110	MISSING	10/10		20156330
DHW HEAT EXCHANGER							
SC SUN 120 ACS	52	2.400	2/110	3,0	6/6	(D)	20156331

(*) Referred to ΔT=20 °C and 30% glicol.

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

TECHNICAL DATA

Description	DHW production l/min	Min DHW production output l/min	DHW temperature set °C	Max primary delivery output l/h	Plate exchange surface m ²	Max. operating pressure bar	Notes	Code
FOR TECHNICAL WATER-DOMESTIC WATER HEAT EXCHANGE								
SC ACS 25	19	2,5	40...55	1.200	0,9	10	(D)	20156322
SC ACS 35 NEW	28	2,5	40...55	1.700	1,8	10	(D)	20156324
SC ACS 40	38	2	30...90	1.850	1,8	6	(1)	20156325
SC ACS 80 NEW	60	5	30...90	3.600	3	6	(D)(1)	20182669
SC ACS 160	100	10	30...85	8.000	-	10	(D)(1)	20176021
SC ACS 225	150	10	30...85	10.500	-	10	(D)(1)	20156329

(*) DHW production at 45 °C, with water inlet at 10 °C and storage tank temperature at 55 °C.

(**) Max primary/secondary pressure.

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

(1) Heat exchange module that can be assembled in cascade with the appropriate accessories (see accessories).

ACCESSORIES

Description	Notes	Code
Thermostatic sanitary recirculation kit (for SC ACS 25-35)	(D)	20083502
Electronic DHW recirculation kit (only for SC ACS 40)		20182673
2 modules cascade connection kit (only for SC ACS 40)	(1)	20182674
3 modules cascade connection kit (only for SC ACS 40)	(D)(1)	20182675
Recirculation kit (only for SC ACS 80)	(D)	20182676
2 modules cascade connection kit (only for SC ACS 80)	(D)(2)	20182677
3 modules cascade connection kit (only for SC ACS 80)	(D)(2)	20182678

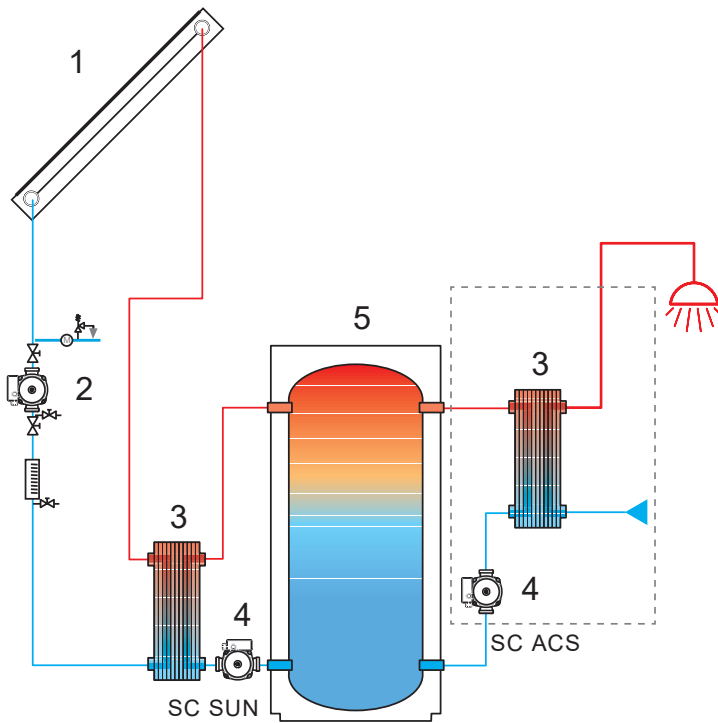
(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

(1) Specific accessories for cascade mounting of SC ACS 40 (recirculation pump kit included).

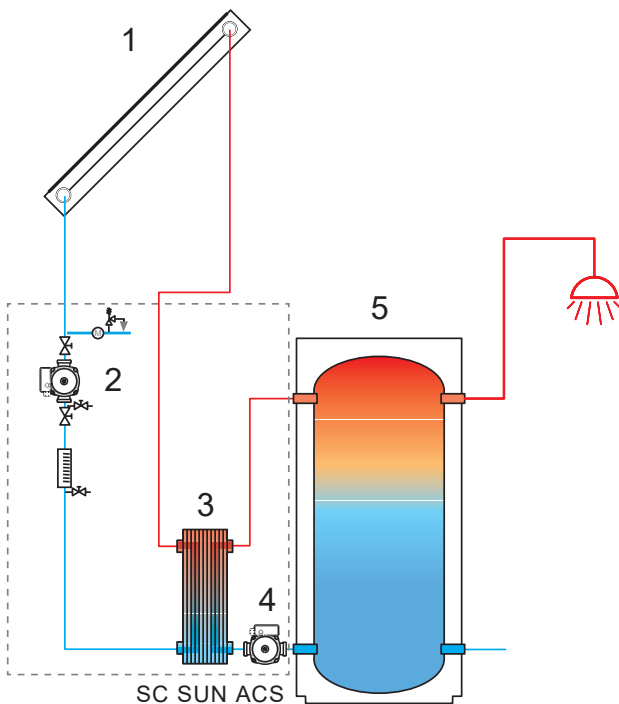
(2) Specific accessories for cascade mounting of the SC ACS 80 (recirculation circulator kit included).

Other available accessories at page 202.

PRINCIPLE EXEMPLARY SCHEME



1. Riello solar collector
2. High efficiency solar circulator
3. Plate heat-exchanger
4. High efficiency circulator
5. 7000 Puffer



1. Riello solar collector
2. High efficiency solar circulator
3. Plate heat-exchanger
4. High efficiency circulator
5. 7200/3F HV PLUS

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

SOLAR THERMAL ACCESSORIES

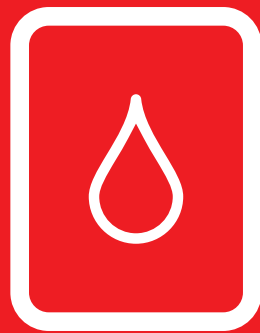


SOLAR THERMAL ACCESSORIES

Description	Notes	Code
FITTINGS AND STAINLESS STEEL PIPES		
2 straight fittings kit to be tightened to connect the solar collectors with DN18 copper pipes		20027281
2-fittings kit to be tightened (90°) to connect the solar collectors with DN18 copper pipes		20055236
Kit of two fittings to tighten terminals	(2)	20094627
2-fittings kit for the connection between DN18 copper pipe and hydraulic group		20132219
2 straight fittings kit to connect the solar collectors with stainless steel pipes (copper pipe DN18/ stainless steel pipe DN16)		20027289
2-fittings kit for the connection between copper pipe and hydraulic group (copper pipe DN18/ stainless steel pipe DN16)		20132220
Fittings kit to be welded		20132142
Fittings kit for stainless steel pipe	(1)	20132143
Flexible stainless steel pipe kit DN16 of 15 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383254
Flexible stainless steel pipe kit DN16 of 20 m (contains: stainless steel wavy double-pipe for flow and return, solar probe cable and suitable insulation for solar applications)	(2)	4383255
FLOW RATE REGULATORS		
Flow rate regulator 12 (DN20; 2-12 l/min; kvs=2,2 m³/h)		20011536
Flow rate regulator 20 (DN20, 8-20 l/min, kvs=5 m³/h)		20011538
Manual solar air vent kit		20026577
GLYCOL		
5 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383085
10 kg propylene glycol kit (concentrated heat-transfer liquid, with corrosion inhibitors, for flat-plate collectors)		4383059
20 kg pre-mixed glycol for CSV R (ready-to-use heat transfer liquid, suitable for vacuum collectors, frost-protection up to -28 °C)		4383118
20 kg glycol-free heat-transfer liquid (long-lasting and non-toxic)		20094030
EXPANSION VESSELS		
18L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383052
24L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383053
35L SUN expansion vessel (ideal for solar systems, bracket equipped, ¾" fitting)		4383054
50L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383256
100L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383257
150L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383258
300L expansion vessel (ideal for solar systems, provided with supporting base and 1" fitting)		4383259
OTHER ACCESSORIES		
¾" thermostatic mixing valve kit		20020778
Thermoregulation DIFFER-ASS SUN1 N		20039694

(1) Fittings kit to be ordered with the stainless steel flexible pipe.

(2) Stainless steel flexible pipe, insulated, without fittings.



CENTRALIZED HEATING

WALL-HUNG MODULAR SYSTEM	208
FLOOR-STANDING MODULAR SYSTEM	224
FLOOR-STANDING BOILERS	255
STEEL JET BURNER BOILERS GAS/OIL	279
CAST IRON JET BURNER BOILERS GAS/OIL	317
CONTROL PANELS AND THERMOREGULATIONS	325
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WALL-HANG/FLOOR-STANDING CONDENSATION MODULES



GAS INDOOR

GAS OUTDOOR

WALL-HUNG THERMAL
MODULES STAINLESS STEEL



CONDEXA PRO
(34,4-1098,0 kW)**

page 208



CONDEXA PRO*
(34,4-1098,0 kW)**

page 208

FLOOR-STANDING THERMAL
MODULES STAINLESS STEEL



STEEL PRO POWER
(111,4-1290,0 kW)**

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STEEL PRO POWER*
(111,4-1290,0 kW)**

page 224

FLOOR-STANDING THERMAL
MODULES ALUMINIUM



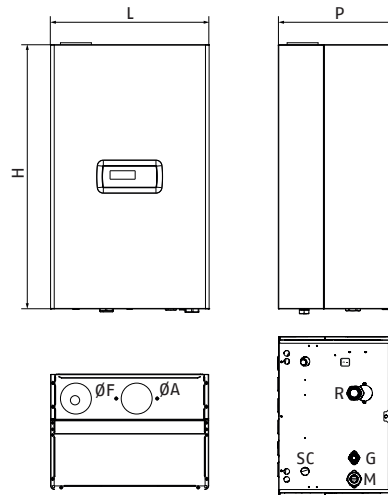
ALU PRO POWER
(112,1-585,0 kW)**

page 238

* Provided with kit for outdoor installation.
 ** The output data are referred to the min-max (80°/60 °C) of cascade applications.

Indoor wall-hung gas condensing modules

Condexa Pro



M-FLOW G 1" 1/2
G-GAS G 1"
R-RETURN G 1" 1/2
SC-CONDENSATE DISCHARGE Ø24 mm
ØF-FUME
ØA-AIR (opz)



- In conformity with Directive 2009/125/EC
- Condensing thermal modules for indoor use (for outdoors with optional kit)
- Possible cascade up to 1120 kW
- Modular design to ensure an easy and fast installation
- Low polluting emissions, Class 6 (DIN EN 15502)

Description	H mm	L mm	P mm	Ø mm	Net weight kg
CONDEXA PRO 35 P	1000	600	435	80	58
CONDEXA PRO 50 P	1000	600	435	80	58
CONDEXA PRO 57 P	1000	600	435	80	64
CONDEXA PRO 70 P	1000	600	435	80	64
CONDEXA PRO 90	1000	600	435	110	69
CONDEXA PRO 100	1000	600	435	110	69
CONDEXA PRO 115	1170	600	435	110	84
CONDEXA PRO 135	1170	600	435	110	90

The Condexa Pro System is the new Riello high performance wall-hung condensing modular system that can cover a vast range of applications, and which can be installed indoors or outdoors, with an open or sealed combustion chamber, with a single boiler or in cascade up to 1120 kW.

The range consists of 8 models with thermal modules from 35 to 131 kW.

Each thermal module has a new heat exchanger, with patented structures, composed of two smooth concentric stainless steel pipes, having respectively an internal pentagonal section and a circular outside section, designed to maximise the heat exchange surface and provide maximum resistance to corrosion.

The primary circuit pump with modulating adjustment allows you to operate with a settable constant Δt , thereby reducing the system's steady state times and maximising the condensation. The standard electronics includes climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.






Included as standard are: boiler discharge tap, LPG conversion kit and wall support.

Completing the system are accessories specifically designed for modular and cascade applications, with the possibility of working with various hydraulic management logics, namely thermal modules with circulators or no shut-off.

With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones. The optimal management of the combustion and the high modulation ratios, up to 1 to 50 for the version with 10 thermal modules, provide high levels of efficiency and low levels of polluting emissions (Class 6 UNI EN 15502).

- Continuity of service is guaranteed by system modularity: even in the event of fault of a module, overall operation shall not be compromised
- The anti-freeze and anti-seizing functions ensure it operates in all weather conditions
- A wide range of accessories is available to ensure the installation is simple, fast and complete with cascade
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output kW			Efficiency			Energy efficiency class 	Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°) %	Useful Pn (50°/30°) %	Useful 30% Pn (50°/30°) %			
CONDEXA PRO 35 P	34,4	38,0	9,0-34,9	98,4	108,7	109,5		IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115221 20150683 20151700 20151724 20151751 20151822
CONDEXA PRO 50 P	44,2	48,8	9,0-45,0	98,3	108,6	109,2		IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115222 20150684 20151704 20151725 20151753 20151823
CONDEXA PRO 57 P	55,7	61,9	14,0-57,0	98,3	108,6	109,2		IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115223 20150685 20151706 20151726 20151754 20151824
CONDEXA PRO 70 P	67,0	73,9	14,0-68,0	97,9	108,1	108,8		IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115224 20150686 20151707 20151727 20151756 20151825
CONDEXA PRO 90	88,3	97,4	19,4-90,0	98,0	108,3	108,9	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115225 20150687 20151709 20151728 20151759 20151826
CONDEXA PRO 100	95,3	105,1	19,4-97,0	97,9	108,2	108,8	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115226 20150688 20151721 20151730 20151762 20151827
CONDEXA PRO 115	109,8	121,1	22,4-112,0	98,3	108,6	108,8	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115228 20150689 20151722 20151731 20151767 20151828
CONDEXA PRO 135	129,0	142,1	26,2-131,0	97,9	108,3	108,9	-	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO SK/CZ/GR/SI/CR	20115229 20150690 20151723 20151732 20151768 20151829

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

STAND ALONE BOILER CONFIGURATION GUIDE AND ACCESSORIES SELECTION



1. STAND ALONE BOILER CONFIGURATION

2. ACCESSORIES TO COMPLETE THE SYSTEM

3. OPTIONAL ACCESSORIES

- 3.1 Shunt pumps
- 3.2 Additional safety devices
- 3.3 Hydraulic separator or plate heat exchanger
- 3.4 Secondary circuit management
- 3.5 Indoor/outdoor installation
- 3.6 Sealed chamber conversion kit
- 3.7 Flue system
- 3.8 Treatment systems for condensate neutralization

1. STAND ALONE BOILER CONFIGURATION

Powers obtainable with stand alone installation

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Thermal flow kW	34,9	45	57	68	90	97	112	131

2. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Notes	Code
External probe		20132778
Condensate drain kit for stand alone boiler	(1)	20133102

(1) Only for models 57-135.

3. OPTIONAL ACCESSORIES

3.1 Shunt pumps (only for 90÷135 kW)

Description	Notes	Code
Injection pump kit (90÷115 kW)	(1)(2)	20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)(3)	20125035
Injection pump kit with high residual head (135 kW)	(1)(4)	20125040

- (1) On the models Condexa Pro 35 P - 50 P - 57 P - 70 P the shunt pump is already onboard.
- (2) This shunt pump, that can be fitted within the boiler, offers a high residual head on Condexa Pro 90 - 100 and with these boilers it can be combined with the (optional) plate heat exchanger; if used with Condexa Pro 115, it can be combined with the (optional) hydraulic separator but not with the plate heat exchanger.
- (3) If combined with Condexa Pro 135, this shunt pump can be fitted within the boiler and offers a very low residual head (10 mbar); it has to be used ONLY in case of combination with horizontal hydraulic separator code: 20131897.
- (4) This shunt pump cannot be fitted within the boiler, it has to be installed under the gas fired boiler.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

3.2 Additional safety devices

Description	Notes	Code
SA installation kit for stand-alone boiler	(1)(2)	20142219
Manifold kit with safety devices for stand alone boiler	(3)	20131898
Safety valve 5.4 bar ØG.3/4" FF	(4)	20143981
Kit with connection pipe to hydraulic separator for stand alone boiler	(4)	20131899

- (1) This kit is necessary for the stand-alone installation. It contains: Connection Pipe kit (1x code 20131899), Hydraulic Separator kit for stand alone boiler (1x code 20131897), Condensate drain syphone (1x code 20133102), Safety valve 5,4 bar (1x code 20143981) and 2 Ball Valves.
 (2) Condensate drain syphone (code 20133102) is not included in the boilers (except for CONDEXA PRO 35 P and 50 P).
 (3) Includes all the safety devices, including safety valve and VIC
 (4) To be used in Italy only with model 35.

3.3 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Horizontal hydraulic separator kit for stand alone boiler		20131897
Frame kit for front cascades	(1)	20131663
2/3 way valve kit	(2)	20125037
Plate heat exchanger kit for stand alone boiler (35-50 kW)	(3)	20132368
Plate heat exchanger kit for stand alone boiler (57-70 kW)	(3)	20132369
Plate heat exchanger kit for stand alone boiler (90-100 kW)	(3)	20132370
Plate heat exchanger kit for stand alone boiler (115 kW)	(3)	20132371
Plate heat exchanger kit for stand alone boiler (135 kW)	(3)	20132372
Delivery/return line fittings kit for direct installation (35-135 kW)		20136823
Expansion tank kit for stand alone boiler (35-50 kW)		20139239
Cover for plate heat exchanger		20145587
Cover for safety kit/hydraulic separator unit for stand alone boiler		20133224

- (1) The frame is necessary in the case of installation with plate heat exchanger; if the frame kit is not fixed to the wall, the kit code 20131664 must also be purchased.
 (2) The two-way valve kit combined with the plate heat exchanger kit codes for stand alone boiler (except code 20132368) allows the direct production of DHW.
 (3) To be installed mandatory with code 20131663.

3.4 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
3-way valve kit for domestic hot water production (35-50 kW)		20136713
Electronic kit for managing additional direct or mixed zone	(2)	20130811

- (1) Utilized for the management of secondary/tank circuit.
 (2) The maximum number of kits that can be installed is 16
NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats on page 413.

3.5 Outdoor installation

Description	Code
IPX5D kit for outdoor installation (35÷70 kW)	20132365
IPX5D kit for outdoor installation (90÷135 kW)	20128135

3.6 Sealed chamber conversion kit (C type)

Description	Code
Conversion kit C type (35÷70 kW)	20131665
Conversion kit C type (90÷135 kW)	20131668

3.7 Flue system

Description	Notes	Code
Spacer kit for fixing to wall	(1)	20131270

- (1) Kit required for rear wall concentric discharge
NOTE: for each type check the maximum equivalent lengths by consulting the technical data sheet and/or contacting the pre-sales service.
For the flue gas system, refer to page 331.

3.8 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810

- (1) Equipped with extraction pumps.

BOILERS CASCADE CONFIGURATION GUIDE AND ACCESSORIES SELECTION



1. BOILERS CASCADE CONFIGURATION

2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK

3. ACCESSORIES TO COMPLETE THE SYSTEM

4. ACCESSORIES

4.1 Support frame

4.2 Shunt pumps

4.3 Connection pipes

4.4 Water collectors (delivery/return) -gas-condensate

4.5 Additional safety devices

4.6 Hydraulic separator or plate heat exchanger

4.7 Secondary circuit management

4.8 Sealed chamber conversion kit

4.9 Flue gas exhaust systems

4.10 Treatment systems for condensate neutralization

1. BOILERS CASCADE CONFIGURATION

Powers obtainable with cascade system installation

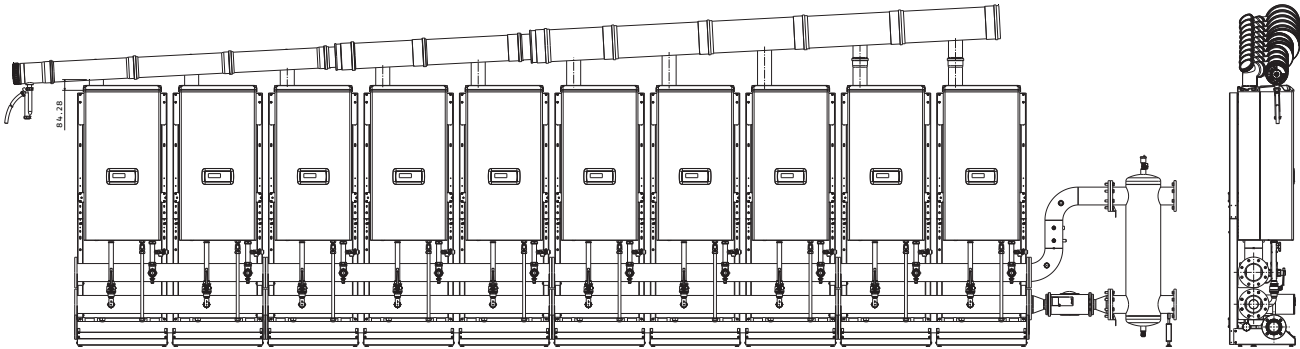
Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Nr. boilers	TOTAL POWER							
2	70	90	114	136	180	194	224	262
3	105	135	171	204	270	291	336	393
4	140	180	228	272	360	388	448	524
5	175	225	285	340	450	485	560	655
6	209	270	342	408	540	582	672	786
7	244	315	399	476	630	679	784	917
8	279	360	456	544	720	776	896	1048
9	314	405	513	612	810	873	1008	ND
10	349	450	570	680	900	970	1120	ND

Key to lay-out

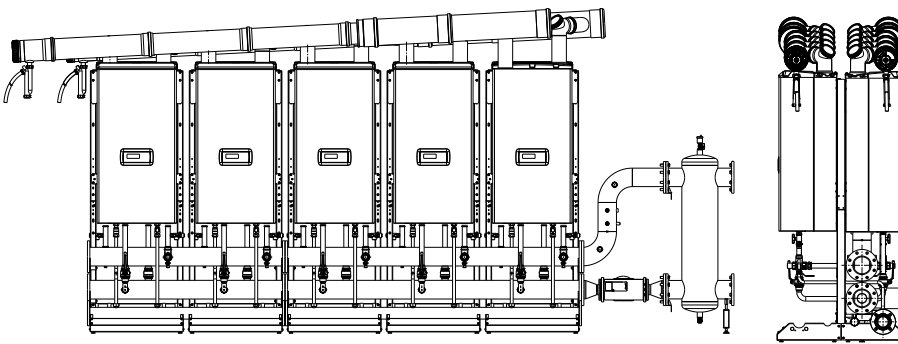
	Solution that provides the least number of boilers
	A solution that provides, with the same power, a greater number of boilers and therefore a greater modulation ratio
	Solution that provides, with the same power mdi, the maximum modulation ratio
ND	Solution not available

2. SELECTION OF THE LAYOUT FRONT OR BACK-TO-BACK, In relation to the space available

FRONT configuration



BACK-TO-BACK configuration



3. ACCESSORIES TO COMPLETE THE SYSTEM

Description	Language	Notes	Code
Condensate drain kit for cascade boiler		(1)	20131267
External probe		(2)	20132778
Primary probe	IT/EN	(2)(3)	20175714
Set of manuals for the CONDEXA PRO CASCADE	FR/NL/DE		20150950
Set of manuals for the CONDEXA PRO CASCADE	ES/PT		20151280
Set of manuals for the CONDEXA PRO CASCADE	RU/UA		20151282
Set of manuals for the CONDEXA PRO CASCADE	PL/HU/RO		20151281
Set of manuals for the CONDEXA PRO CASCADE	SK/CZ/GR/SI/CR		20151949

- (1) To be ordered for each boiler of the cascade system (q.ty = no. boilers)
- (2) One probe for each system in cascade, to be connected to the master boiler
- (3) It must be associated mandatorily with the appropriate "Set of manuals for the CONDEXA PRO CASCADE".

4. ACCESSORIES

4.1 Support frame

Description	Code
Frame kit for front cascades	20131663
Frame conversion kit for B2B cascades	20131664

No. boilers	FRONT	BACK-TO-BACK	
	20131663 Q.ty frame	20131663 Q.ty frame	20131664 Q.ty conversion kit
2	2	1	1
3	3	2	2
4	4	2	2
5	5	3	3
6	6	3	3
7	7	4	4
8	8	4	4
9	9	5	5
10	10	5	5

4.2 Shunt pumps for single boiler (only for 90÷135 kW)

Description	Notes	Code
Injection pump kit (90÷115 kW)	(1)	20125034
Injection pump kit with high residual head (115 kW) and low residual head (135 kW)	(1)	20125035
Injection pump kit with high residual head (135 kW)	(2)	20125040

- (1) To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed inside the boiler.
 (2) To be ordered for each boiler of the cascade system (q.ty = no. boilers); pump to be installed outside the boiler.

4.3 Connection pipes

Description	Notes	Code
FRONT CONFIGURATION		
Pipes without shut-off (35÷135 kW)	(1)	20130658
Pipes with shut-off (35÷135 kW)	(1)	20131124
Pipes without shut-off (135 kW) (external pump)	(2)	20131121
Pipes with shut-off (135 kW) (external pump)	(2)	20131125
BACK-TO-BACK CONFIGURATION		
Pipes without shut-off (35÷135 kW)	(3)	20130658
Pipes with shut-off (35÷135 kW)	(3)	20131124
Pipes without shut-off (135 kW) (external pump)	(4)	20131121
Pipes with shut-off (135 kW) (external pump)	(4)	20131125
Pipes without shut-off (35÷135 kW) (B2B)	(5)	20131787
Pipes with shut-off (35÷135 kW) (B2B)	(5)	20131791
Pipes without shut-off (135 kW) (external pump) (B2B)	(6)	20131788
Pipes with shut-off (135 kW) (external pump) (B2B)	(6)	20131792

- (1) To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed inside the boiler.
 (2) To be ordered for each boiler of the cascade system (q.ty = no. boilers) with pump or valve installed outside the boiler.
 (3) To be ordered for each boiler on collectors side with pump or valve installed inside the boiler.
 (4) To be ordered for each boiler on collectors side with pump or valve installed outside the boiler.
 (5) To be ordered for each boiler on the side opposite the collectors with pump or valve installed inside the boiler.
 (6) To be ordered for each boiler on the side opposite the collectors with pump or valve installed outside the boiler.

4.4 Water collectors (delivery/return) - gas - condensate

Description	Notes	Code
3" collectors kit for cascades for 1 boiler	(1)	20133220
3" collectors kit for cascades for 2 boilers	(2)	20130220
3" collectors kit for cascades for 3 boilers	(2)	20130221
5" collectors kit for cascades for 2 boilers	(3)	20130222
5" collectors kit for cascades for 3 boilers	(3)	20130223
3" closing plugs kit		20070903
3" through-flanges kit		20082190
5" closing plugs kit		20070907
5" through-flanges kit		20082191
Cover with insulation for cascade collectors/pipes		20132377

- (1) To be used for the BACK TO BACK configuration with 2 boilers; includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector.
- (2) To be used with a maximum output of up to 485 kW. Includes 3" flanged deliver/return collectors DN80, 2" threaded gas collector, condensate drain collector.
- (3) To be used with a maximum output of over 485 kW. Includes 5" flanged deliver/return collectors DN125, 3" threaded gas collector DN80, condensate drain collector.

TABLE OF COMBINATION OF BOILER CASCADE COLLECTORS

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	TOTAL CASCADE OUTPUT/DIAMETER H ₂ O COLLECTORS							
2	70/3"	90/3"	114/3"	136/3"	180/3"	194/3"	224/3"	262/3"
3	105/3"	135/3"	171/3"	204/3"	270/3"	291/3"	336/3"	393/3"
4	140/3"	180/3"	228/3"	272/3"	360/3"	388/3"	448/3"	524/5"
5	175/3"	225/3"	285/3"	340/3"	450/3"	485/3"	560/5"	655/5"
6	209/3"	270/3"	342/3"	408/3"	540/5"	582/5"	672/5"	786/5"
7	244/3"	315/3"	399/3"	476/3"	630/5"	679/5"	784/5"	917/5"
8	279/3"	360/3"	456/3"	544/5"	720/5"	776/5"	896/5"	1048/5"
9	314/3"	405/3"	513/5"	612/5"	810/5"	873/5"	1008/5"	-
10	349/3"	450/3"	570/5"	680/5"	970/5"	970/5"	1120/5"	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A FRONT CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	SELECTION OF COLLECTOR CODES FOR FRONT CONFIGURATION							
2	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220
3	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221
4	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222
5	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223
6	2 x 20130221	2 x 20130221	2 x 20130221	2 x 20130221	2 x 20130223	2 x 20130223	2 x 20130223	2 x 20130223
7	2 x 20130220 1 x 20130221	2 x 20130220 1 x 20130221	2 x 20130220 1 x 20130221	2 x 20130220 1 x 20130221	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223	2 x 20130222 1 x 20130223
8	1 x 20130220 2 x 20130221	1 x 20130220 2 x 20130221	1 x 20130220 2 x 20130221	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223	1 x 20130222 2 x 20130223
9	3 x 20130221	3 x 20130221	3 x 20130223	3 x 20130223	3 x 20130223	3 x 20130223	3 x 20130223	-
10	2 x 20130220 2 x 20130221	2 x 20130220 2 x 20130221	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	2 x 20130222 2 x 20130223	-

TABLE OF COMBINATION OF COLLECTOR CODES IN RELATION TO THE NUMBER OF BOILERS IN CASCADE, IN A BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	Selection of H ₂ O collector codes for BACK TO BACK configurations							
2	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220	1 x 20133220
3	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220
4	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130220	1 x 20130222
5	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223
6	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130221	1 x 20130223	1 x 20130223	1 x 20130223	1 x 20130223
7	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
8	2 x 20130220	2 x 20130220	2 x 20130220	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222	2 x 20130222
9	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	-
10	1 x 20130220 1 x 20130221	1 x 20130220 1 x 20130221	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	1 x 20130222 1 x 20130223	-

4.5 Additional safety devices

Description	Notes	Code
Manifold kit for 3" safety devices housing		20070910
Manifold kit for 5" safety devices housing		20070912
Safety devices kit	(1)	20071190
Safety valve up to 460 kW (5,4 bar ØG.¾" F)		20023104
Safety valve up to 580 kW (5,4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(2)(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(3)(6)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(6)	20061640

- (1) Does not include safety valve and VIC.
- (2) Recommended up to a maximum output of 131 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (3) Recommended up to a maximum output of 230 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (4) Recommended up to a maximum output of 580 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (5) Recommended up to a maximum output of 1150 kW, calculated taking into consideration the gas supply pressure = 20 mbar.
- (6) Intervention temperature 97 °C - Capillary length 5 m.

NOTE: to calculate the maximum admissible output of the VIC, with supply pressures other than 20 mbar, contact the pre-sales service.

TABLE FOR SELECTING THE SAFETY VALVES

Total cascade heat output (kW)	0-460	461-580	581-920	921-1160
(No.) Diameter safety valve	1 x ¾"	1 x 1"	2 x ¾"	2 x 1"
	1 x cod. 20023104	1 x cod. 20023106	2 x cod. 20023104	2 x cod. 20023106

4.6 Hydraulic separator or plate heat exchanger

Description	Notes	Code
Hydraulic separator kit 5"-up to 485 kW	(1)	20009467
Hydraulic separator kit 10"-up to 580 kW	(2)	20069073
Hydraulic separator kit 10"-up to 1120 kW	(3)	20069074
Fittings kit for plate heat exchanger (DN80 collectors side 3"/DN50 plate heat exchanger side)		20132373
Fittings kit for plate heat exchanger (DN125 collectors side 5"/DN65 plate heat exchanger side)		20132375
Fittings kit for plate heat exchanger (DN125 collectors side 5"/DN100 plate heat exchanger side)		20132376

- (1) To be used with a maximum output of up to 485 kW in combination with 3" collectors.
- (2) To be used with a maximum output of over 485 and up to 580 kW in combination with 5" collectors.
- (3) To be used with a maximum output of over 580 kW and up to 1120 kW in combination with 5" collectors.

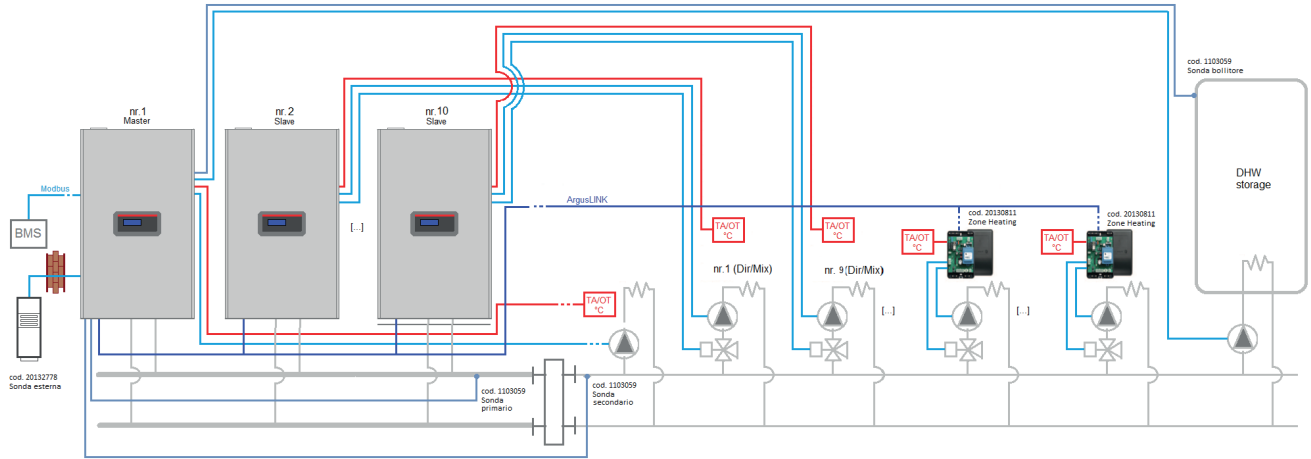
4.7 Secondary circuit management

Description	Notes	Code
Immersion probe	(1)	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	(2)	20130811

(1) Utilized for the management of secondary/tank circuit.

(2) Kit required whenever the number of the heating zones, direct or mixed, is higher than the number of slave boilers.

NOTE: for adjusting the ambient temperature use Riello thermostats and chronothermostats.



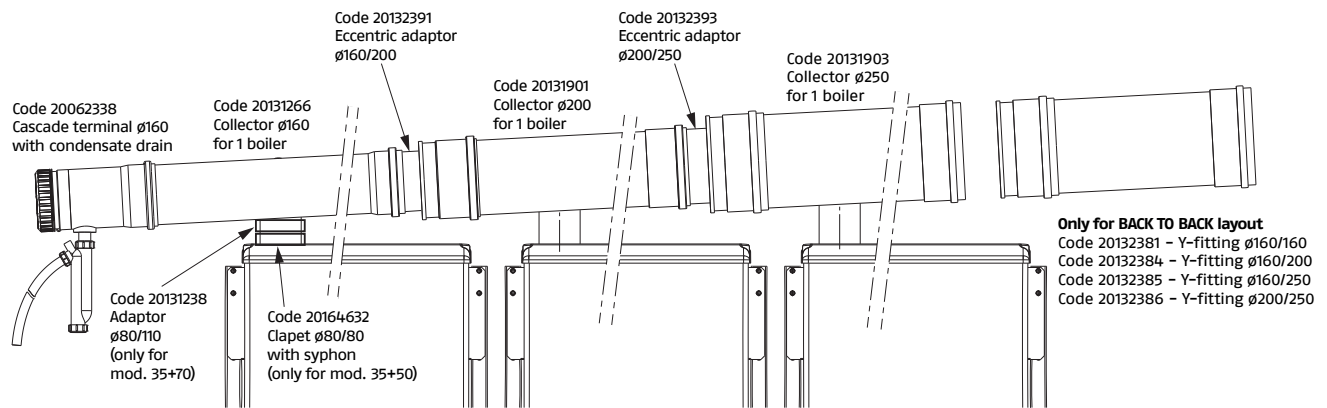
4.8 Sealed chamber conversion kit

Description	Code
Conversion kit C type (35÷70 kW)	20131665
Conversion kit C type (90÷135 kW)	20131668

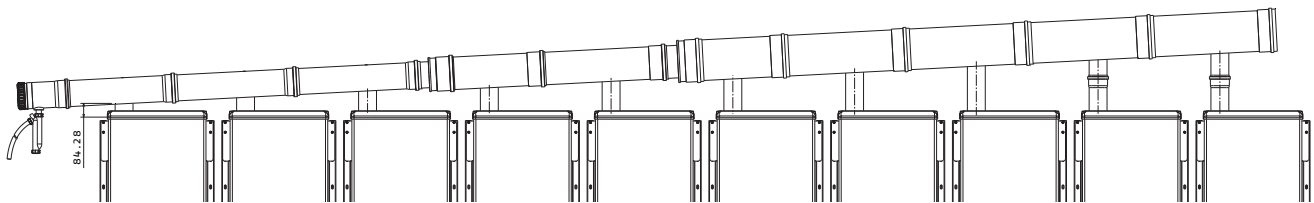
4.9 Flue gas exhaust systems

Description	Notes	Code
Adaptor Ø80/110	(1)	20131238
Clapet Ø80/80 with syphon	(2)	20164632
Cascade terminal Ø160 with condensate drain		20062338
Collector Ø160 for 1 boiler		20131266
Eccentric adaptor Ø160/200		20132391
Collector Ø200 for 1 boiler		20131901
Eccentric adaptor Ø200/250		20132393
Collector Ø250 for 1 boiler		20131903
Y-fitting Ø160/160		20132381
Y-fitting Ø160/200		20132384
Y-fitting Ø160/250		20132385
Y-fitting Ø200/250		20132386

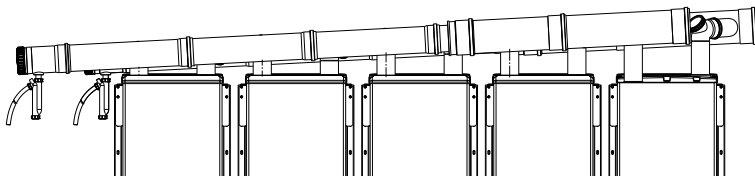
(1) Mandatory only for models 35-70.
 (2) Mandatory only for models 35-50.



FRONT configuration - max 10 boilers



BACK-TO-BACK configuration - max 5 + 5 boilers



NOTE: the BACK TO BACK configuration has separate lines for each row of boilers, collectors side and the opposite side.

TABLE FOR SELECTING THE FLUE GASES COLLECTORS DIAMETERS IN RELATION TO THE NUMBER OF BOILERS ON EACH COLLECTOR

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	FLUE GASES/AIR DIAMETERS							
1 ^a	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160	Ø160
2 ^a	160	160	160	160	160	160	160	160
3 ^a	160	160	160	160	160	160	160	160
4 ^a	160	160	160	160	160	160	160	200
5 ^a	160	160	160	160	200	200	200	200
6 ^a	160	160	160	160	200	200	200	250
7 ^a	160	160	160	200	200	200	250	250
8 ^a	160	160	200	200	250	250	250	250
9 ^a	160	160	200	200	250	250	250	-
10 ^a	160	200	200	200	250	250	250	-

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN FRONT CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	SELECTION OF FLUE GASES COLLECTOR CODES FOR FRONT CONFIGURATIONS							
2	2 x 20164632 2 x 20131238 1 x 20062338 2 x 20131266	2 x 20164632 2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	2 x 20131238 1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266	1 x 20062338 2 x 20131266
3	3 x 20164632 3 x 20131238 1 x 20062338 3 x 20131266	3 x 20164632 3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	3 x 20131238 1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266	1 x 20062338 3 x 20131266
4	4 x 20164632 4 x 20131238 1 x 20062338 4 x 20131266	4 x 20164632 4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	4 x 20131238 1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 4 x 20131266	1 x 20062338 3 x 20131266 1 x 20132391 1 x 20131901
5	5 x 20164632 5 x 20131238 1 x 20062338 5 x 20131266	5 x 20164632 5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	5 x 20131238 1 x 20062338 5 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901
6	6 x 20164632 6 x 20131238 1 x 20062338 6 x 20131266	6 x 20164632 6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	6 x 20131238 1 x 20062338 6 x 20131266	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 3 x 20131266 1 x 20132391 1 x 20131901 1 x 20132393 1 x 20131903
7	7 x 20164632 7 x 20131238 1 x 20062338 7 x 20131266	7 x 20164632 7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 7 x 20131266	7 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 1 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903
8	8 x 20164632 8 x 20131238 1 x 20062338 8 x 20131266	8 x 20164632 8 x 20131238 1 x 20062338 8 x 20131266	8 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 1 x 20131901	8 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 2 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 1 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 3 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903
9	9 x 20164632 9 x 20131238 1 x 20062338 9 x 20131266	9 x 20164632 9 x 20131238 1 x 20062338 9 x 20131266	9 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 2 x 20131901	9 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 3 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 2 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 3 x 20131903	nd
10	10 x 20164632 10 x 20131238 1 x 20062338 10 x 20131266	10 x 20164632 10 x 20131238 1 x 20062338 8 x 20131266 1 x 20132391 1 x 20131901	10 x 20131238 1 x 20062338 7 x 20131266 1 x 20132391 3 x 20131901	10 x 20131238 1 x 20062338 6 x 20131266 1 x 20132391 4 x 20131901	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 3 x 20131901 1 x 20132393 3 x 20131903	1 x 20062338 4 x 20131266 1 x 20132391 2 x 20131901 1 x 20132393 4 x 20131903	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

TABLE FOR SELECTING THE FLUE GASES COLLECTORS CODES IN RELATION TO THE NUMBER OF BOILERS IN BACK TO BACK CONFIGURATION

Model	CONDEXA PRO 35 P	CONDEXA PRO 50 P	CONDEXA PRO 57 P	CONDEXA PRO 70 P	CONDEXA PRO 90	CONDEXA PRO 100	CONDEXA PRO 115	CONDEXA PRO 135
Boiler heat output kW	35	45	57	68	90	97	112	131
No. boilers	SELECTION OF FLUE GASES COLLECTOR CODES FOR BACK TO BACK CONFIGURATIONS							
2	2 x 20164632 2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20164632 2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20131238 2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381	2 x 20062338 2 x 20131266 1 x 20132381
3	3 x 20164632 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20164632 3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	3 x 20131238 2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381	2 x 20062338 3 x 20131266 1 x 20132381
4	4 x 20164632 4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20164632 4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	4 x 20131238 2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132381	2 x 20062338 4 x 20131266 1 x 20132384
5	5 x 20164632 5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20164632 5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	5 x 20131238 2 x 20062338 5 x 20131266 1 x 20132381	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384	2 x 20062338 5 x 20131266 1 x 20132384
6	6 x 20164632 6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20164632 6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	6 x 20131238 2 x 20062338 6 x 20131266 1 x 20132381	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132384	2 x 20062338 6 x 20131266 1 x 20132385
7	7 x 20164632 7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20164632 7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132381	7 x 20131238 2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 1 x 20132385	2 x 20062338 5 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
8	8 x 20164632 8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132381	8 x 20164632 8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132381	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	8 x 20131238 2 x 20062338 8 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 8 x 20131266 1 x 20132385	2 x 20062338 6 x 20131266 2 x 20132391 2 x 20131901 1 x 20132386
9	9 x 20164632 9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132381	9 x 20164632 9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132381	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	9 x 20131238 2 x 20062338 9 x 20131266 1 x 20132384	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 7 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd
10	10 x 20164632 10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132381	10 x 20164632 10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	10 x 20131238 2 x 20062338 10 x 20131266 1 x 20132384	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	2 x 20062338 8 x 20131266 2 x 20131901 2 x 20132391 1 x 20132386	nd

NOTE: in the case of a channelled suction line and gas-tight combustion (type C) double the amounts indicated in the table.

4.10 Treatment systems for condensate neutralization

Description	Notes	Code
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450÷1500 kW)		4031812
Condensate neutralizer HN3 (270÷750 kW)	(1)(D)	4031813

(1) Equipped with extraction pumps.

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

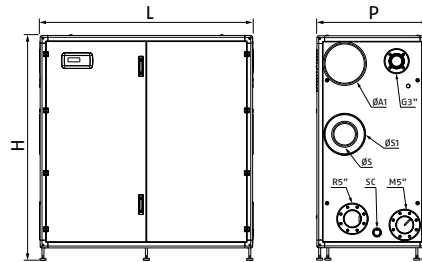
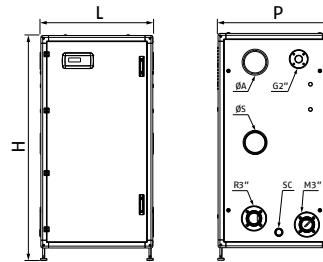
HIGH TEMPERATURE MACHTING

Description			Plate heat exchangers					
Nr. of generators in cascade application	Model	Useful power kW						
			Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
2	Condexa Pro 2x 35 P	70	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 25 (25A) N	DN50	20140410
	Condexa Pro 2x 50 P	100	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	20140411
	Condexa Pro 2x 57 P	114	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 35 (35A) N	DN50	20140412
	Condexa Pro 2x 70 P	136	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	20140413
	Condexa Pro 2x 90	180	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 2x 100	194	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	20140416
	Condexa Pro 2x 115	224	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 2x 135	262	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
3	Condexa Pro 3x 35 P	105	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 31 (31A) N	DN50	20140411
	Condexa Pro 3x 50 P	150	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	20140413
	Condexa Pro 3x 57 P	171	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 3x 70 P	204	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	20140416
	Condexa Pro 3x 90	270	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 3x 100	291	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 81 (81A) N	DN50	20140420
	Condexa Pro 3x 115	336	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 3x 135	393	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
4	Condexa Pro 4x 35 P	140	SP 35 - DN50 25 (25A) N	DN50	20140410	SP 35 - DN50 39 (39A) N	DN50	20140413
	Condexa Pro 4x 50 P	200	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 4x 57 P	228	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 4x 70 P	272	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 4x 90	360	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 4x 100	388	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 4x 115	448	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 4x 135	524	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428
5	Condexa Pro 5x 35 P	175	SP 35 - DN50 31 (31A) N	DN50	20140411	SP 35 - DN50 49 (49A) N	DN50	20140415
	Condexa Pro 5x 50 P	250	SP 35 - DN50 39 (39A) N	DN50	20140413	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 5x 57 P	285	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 5x 70 P	340	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 5x 90	450	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 5x 100	485	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 5x 115	560	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 5x 135	655	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
6	Condexa Pro 6x 35 P	209	SP 35 - DN50 35 (35A) N	DN50	20140412	SP 35 - DN50 57 (57A) N	DN50	20140416
	Condexa Pro 6x 50 P	300	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 6x 57 P	342	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 6x 70 P	408	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 6x 90	540	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 6x 100	582	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 6x 115	672	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 6x 135	786	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
7	Condexa Pro 7x 35 P	244	SP 35 - DN50 45 (45A) N	DN50	20140414	SP 35 - DN50 65 (65A) N	DN50	20140418
	Condexa Pro 7x 50 P	350	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 7x 57 P	399	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 7x 70 P	476	SP 35 - DN50 81 (81A) N	DN50	20140420	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 7x 90	630	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 7x 100	679	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 7x 115	784	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 7x 135	917	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439

Description			Plate heat exchangers					
Nr. of generators in cascade application	Model	Useful power kW	$\Delta T_{mi}=10\text{ }^{\circ}\text{C}$			$\Delta T_{mi}=7,2\text{ }^{\circ}\text{C}$		
			Heat exchanger model	DN	Code	Heat exchanger model	DN	Code
8	Condexa Pro 8x 35 P	279	SP 35 - DN50 49 (49A) N	DN50	20140415	SP 35 - DN50 75 (75A) N	DN50	20140419
	Condexa Pro 8x 50 P	400	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 8x 57 P	456	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 8x 70 P	544	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 8x 90	720	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 8x 100	776	SP 40 - DN65 93 (93A) N	DN65	20140427	SP 40 - DN65 145 (145A) N	DN65	20140433
	Condexa Pro 8x 115	896	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 8x 135	1048	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 85 (85A) N	DN100	20140440
9	Condexa Pro 9x 35 P	314	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 9x 50 P	450	SP 35 - DN50 65 (65A) N	DN50	20140418	SP 35 - DN50 105 (105A) N	DN50	20140423
	Condexa Pro 9x 57 P	513	SP 40 - DN65 59 (59A) N	DN65	20014231	SP 40 - DN65 99 (99A) N	DN65	20140428
	Condexa Pro 9x 70 P	612	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 9x 90	810	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 65 (65A) N	DN100	20140438
	Condexa Pro 9x 100	873	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 9x 115	1008	SP 60 - DN100 65 (65A) N	DN100	20140438	SP 60 - DN100 85 (85A) N	DN100	20140440
10	Condexa Pro 10x 35 P	349	SP 35 - DN50 57 (57A) N	DN50	20140416	SP 35 - DN50 93 (93A) N	DN50	20140421
	Condexa Pro 10x 50 P	500	SP 35 - DN50 75 (75A) N	DN50	20140419	SP 35 - DN50 121 (121A) N	DN50	20140424
	Condexa Pro 10x 57 P	570	SP 40 - DN65 67 (67A) N	DN65	20140425	SP 40 - DN65 111 (111A) N	DN65	20140429
	Condexa Pro 10x 70 P	680	SP 40 - DN65 75 (75A) N	DN65	20140426	SP 40 - DN65 121 (121A) N	DN65	20140432
	Condexa Pro 10x 90	900	SP 60 - DN100 51 (51A) N	DN100	20140435	SP 60 - DN100 73 (73A) N	DN100	20140439
	Condexa Pro 10x 100	970	SP 60 - DN100 59 (59A) N	DN100	20140437	SP 60 - DN100 77 (77A) N	DN100	20083248
	Condexa Pro 10x 115	1120	SP 60 - DN100 73 (73A) N	DN100	20140439	SP 60 - DN100 97 (97A) N	DN100	20083249

Floor-standing gas condensing units for indoor use

Steel Pro Power



G = GAS
M = FLOW
R = RETURN
SC = CONDENSATE DISCHARGE



- In conformity with Directive 2009/125/EC
- Condensing modular thermal units for indoor applications (outdoor with optional kit) composed of painted technical cabinet, thermal modules from 57 kW up to 131 kW and system accessories
- Low polluting emissions, class 6 (UNI EN 15502)

Description	H mm	L mm	P mm	ØA mm	ØA1 mm	ØS mm	ØS1 mm	Net weight kg
STEEL PRO POWER 114-2	1800	900	890	160	-	160	-	270
STEEL PRO POWER 140-2	1800	900	890	160	-	160	-	270
STEEL PRO POWER 180-2	1800	900	890	160	-	160	-	280
STEEL PRO POWER 230-2	1800	900	890	160	-	160	-	300
STEEL PRO POWER 270-2	1800	900	890	-	300	160	300	350
STEEL PRO POWER 300-3	1800	1700	890	160	-	160	-	450
STEEL PRO POWER 345-3	1800	1700	890	160	-	160	-	490
STEEL PRO POWER 405-3	1800	1700	890	-	300	160	300	540
STEEL PRO POWER 460-4	1800	1700	890	160	-	160	-	560
STEEL PRO POWER 540-4	1800	1700	890	-	300	160	300	600

Steel Pro Power is the new Riello modular condensing system, specially designed and developed to achieve very high energy efficiency values, minimizing the space occupied.

The system, ready for a simple and quick installation, consists of technical cabinets designed according to the principles of modularity, consisting of an anodised aluminium frame assembly and painted panels.

The standard product is suitable for open chamber indoor installation and it can be transformed into sealed or outdoor installation version with the fitting of specific accessory kits. The cabinets are equipped with 2, 3 or 4 heating elements from 57 up to 131 kW, for a total heat input from 114 up to 524 kW and are available in the versions that associate to each thermal module low consumption circulators ("P" models) or 2-way valves ("V" models); the standard supply also includes electronic control, hydraulic supply and return, gas, fumes and condensate discharge manifolds.

The heat exchangers, with patented geometries, consist of two smooth concentric stainless steel pipes, having the pentagonal section of the inside and the circular section outside of the chamber; they have been specially designed to maximize the exchange surface, offering maximum corrosion resistance and minimum load losses. These features allow you to work with high ΔT , reducing the time of system start-up.

The models with 131 kW exchanger (270-405-540) are designed for side-by-side cascade installation, up to a maximum of 10 units and a power of 1310 kW in total. The control electronics, compatible with the MOD-BUS protocol, allow the climatic regulation with cascade management of the thermal modules, automatic summer/winter switching, possibility of remote management via 0..10V input and alarm output signal.

The control system manages the heat distribution on the secondary circuit, controlling: one direct zone, one or more mixed zones (from 1 to 3 depending on the model) and the cylinder circuit.

Through special accessories there is also the possibility to manage additional mixed zones (up to max 16).

Optimal combustion management and high modulation ratios (up to 1:50) allow high efficiency and low pollutant emissions (Class 6 according to UNI EN 15502). The continuity of service is ensured by the system modularity: even in the event of a module failure, the overall operation is not compromised. The accessories designed to guarantee a simple, rapid and complete installation of the thermal power plant are also available. Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Power [kW]			Useful Pn (80°/60°)	Efficiency %		Notes	Language	Code	
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max		Useful Pn (50°/30°)	Useful 30° Pn (50°/30°)				
INDOOR UNITS - MODULATING PUMP VERSION										
STEEL PRO POWER 114-2 P	111,4	123,8	13,7-114	97,7	108,6	109,4	(1)	IT/EN	20138572	
								FR/NL/DE		20162048
								ES/PT		20162091
								RU/UA		20162140
								PL/HU/RO		20162171
GR/CR	20162191									
STEEL PRO POWER 140-2 P	134,0	147,8	13,7-136	98,5	108,1	109,3	(1)	IT/EN	20138573	
								FR/NL/DE		20162051
								ES/PT		20162092
								RU/UA		20162141
								PL/HU/RO		20162172
GR/CR	20162192									
STEEL PRO POWER 180-2 P	176,6	194,8	19,4-180	98,1	108,3	108,9	(1)	IT/EN	20138574	
								FR/NL/DE		20162052
								ES/PT		20162093
								RU/UA		20162143
								PL/HU/RO		20162173
GR/CR	20162193									
STEEL PRO POWER 230-2 P	219,6	242,2	22,4-223,2	98,4	108,6	108,9	(1)	IT/EN	20138575	
								FR/NL/DE		20162060
								ES/PT		20162094
								RU/UA		20162144
								PL/HU/RO		20162174
GR/CR	20162194									
STEEL PRO POWER 270-2 P	258,0	284,2	26,3-262	98,5	108,3	109,4	(1)(4)	IT/EN	20138576	
								FR/NL/DE		20162063
								ES/PT		20162095
								RU/UA		20162145
								PL/HU/RO		20162175
GR/CR	20162195									
STEEL PRO POWER 300-3 P	285,9	315,3	19,4-291	98,2	108,2	108,9	(2)	IT/EN	20138577	
								FR/NL/DE		20162064
								ES/PT		20162097
								RU/UA		20162146
								PL/HU/RO		20162176
GR/CR	20162196									
STEEL PRO POWER 345-3 P	329,4	363,6	22,4-334,8	98,4	108,6	108,9	(2)	IT/EN	20138578	
								FR/NL/DE		20162065
								ES/PT		20162098
								RU/UA		20162148
								PL/HU/RO		20162177
GR/CR	20162197									
STEEL PRO POWER 405-3 P	387,0	426,3	26,3-393	98,5	108,3	109,4	(2)(4)	IT/EN	20138579	
								FR/NL/DE		20162066
								ES/PT		20162101
								RU/UA		20162151
								PL/HU/RO		20162178
GR/CR	20162198									
STEEL PRO POWER 460-4 P	439,2	484,4	22,4-446,4	98,4	108,6	108,9	(3)	IT/EN	20138580	
								FR/NL/DE		20162074
								ES/PT		20162103
								RU/UA		20162152
								PL/HU/RO		20162179
GR/CR	20162199									

Description	Power [kW]			Efficiency %			Notes	Language	Code
	Useful 80°/60° max	Useful 50°/30° max	Furnace min-max	Useful Pn (80°/60°)	Useful Pn (50°/30°)	Useful 30% Pn (50°/30°)			
INDOOR UNITS - MODULATING PUMP VERSION									
STEEL PRO POWER 540-4 P	516,0	568,4	26,3-524	98,5	108,3	109,4	(3)(4)	IT/EN FR/NL/DE ES/PT RU/UA PL/HU/RO GR/CR	20138581 20162077 20162104 20162153 20162180 20162200

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

(1) Model with 2 thermal elements.

(2) Model with 3 thermal elements.

(3) Model with 4 thermal elements.

(4) Models that can be used for cascade systems.

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION



1. BOILER CONFIGURATION
2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)
3. HYDRAULIC INTERCEPTION OF THERMAL MODULES
4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS
6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX
7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION
8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES
9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

1. BOILER CONFIGURATION

Choice of the type of installation:

A - Stand alone

B - Cascade

A - STAND ALONE HEAT INPUT

Description	STEEL PRO POWER									
	114-2	140-2	180-2	230-2	270-2	300-3	345-3	405-3	460-4	540-4
Rated heat input kW	114	136	180	224	262	291	336	393	448	524

B - CASCADE SYSTEM HEAT INPUT

Description	Heat input kW	STEEL PRO POWER 270-2 P/270-2 V	STEEL PRO POWER 405-3 P/405-3 V	STEEL PRO POWER 540-4 P/540-4 V
		N. of units		
STEEL PRO POWER SYSTEM 675	655	1	1	-
STEEL PRO POWER SYSTEM 810	786	1	-	1
STEEL PRO POWER SYSTEM 945	917	-	1	1
STEEL PRO POWER SYSTEM 1080	1048	-	-	2
STEEL PRO POWER SYSTEM 1215	1179	1	1	1
STEEL PRO POWER SYSTEM 1350	1310	1	-	2

2. SEALED COMBUSTION TRANSFORMATION KIT (TYPE C)

Description	Code
Ø50/80 mm air adapter	20145144
Air hose kit for fan/collector connection Ø160 mm	20145141
Air hose kit for fan/manifold connection Ø300 mm	20145137
Air manifold for Ø160 mm models - for models with 2 thermal modules	20145185
Air manifold for Ø160 mm models - for models with ¾ thermal modules	20145186
Air manifold for Ø300 mm models - for models with 2 thermal modules	20145187
Air manifold for Ø300 mm models - for models with ¾ thermal modules	20145189

MATCHING TABLE OF SEALED TRANSFORMATION KIT CODES IN RELATION TO THE UNIT MODEL

Description	Kit code/Quantity						
	20145144	20145141	20145137	20145185	20145186	20145187	20145189
STEEL PRO POWER 114-2	2x ●	2x ●		1x ●			
STEEL PRO POWER 140-2	2x ●	2x ●		1x ●			
STEEL PRO POWER 180-2		2x ●		1x ●			
STEEL PRO POWER 230-2		2x ●		1x ●			
STEEL PRO POWER 270-2			2x ●			1x ●	
STEEL PRO POWER 300-3		3x ●			1x ●		
STEEL PRO POWER 345-3		3x ●			1x ●		
STEEL PRO POWER 405-3			3x ●				1x ●
STEEL PRO POWER 460-4		4x ●			1x ●		
STEEL PRO POWER 540-4			4x ●				1x ●
STEEL PRO POWER SYSTEM 675			5x ●			1x ●	1x ●
STEEL PRO POWER SYSTEM 810			6x ●			1x ●	1x ●
STEEL PRO POWER SYSTEM 945			7x ●				2x ●
STEEL PRO POWER SYSTEM 1080			8x ●				2x ●
STEEL PRO POWER SYSTEM 1215			9x ●			1x ●	2x ●
STEEL PRO POWER SYSTEM 1350			10x ●			1x ●	2x ●

3. HYDRAULIC INTERCEPTION OF THERMAL MODULES

Description	Notes	Code
2-way valve kit for hydraulic interception kit	(1)	20145169

(1) To be ordered in number equal to the number of modules in the system.

4. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Junction kit for cascade (Fume Ø300 - Air Ø300 - Condensation Ø50)		20157593
Junction kit for cascade with spacer (150 mm)	(1)	20145237
Safety kit	(2)	20071190
Safety valve up to 460 kW (5.4 bar ØG.¾" F)		20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)		20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(3)(4)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(4)(5)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(4)(6)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(4)(7)	20061640
Flanged reduction kit 3"/2" (DN80/DN50)		20145184
Flanged 2" DN50 PN6/threaded ØG.2" adapter kit for VIC valve		20094187
Flanged 3" DN80 PN6/flanged ØG.3" DN80 PN16 adapter kit for VIC valve		20161191
2" - 1" gas adapter for VIC valve		20147994
2" - 1" ½ gas adapter for VIC valve		20147990
Adapter kit for VIC valve flanged from DN80 to threaded ØG.2"		20146852
Flanged reduction kit 5"/3" (DN125/DN80)		20145183
3" closing plugs kit	(8)	20070903
5" closing plugs kit	(8)	20070907
Flange kit 3"		20082190
Flange kit 5"		20082191
Extension kit 3"	(9)(11)	20167872
Extension kit 5"	(10)(11)	20167873
Hydraulic flow manifold 3"		20145172
Hydraulic flow manifold 5"		20145177
Hydraulic return manifold 3"		20145181
Hydraulic return manifold 5"		20145182

(0) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

(1) Includes connections H₂O 5" - Gas 3" - Fumes Ø300 - Condensation Ø50.

(2) It does not include a safety valve and VIC.

(3) Recommended up to a maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.

(4) Operating temperature at 97 °C - Capillary tube 5 m.

(5) Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.

(6) Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.

(7) Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

(8) Kit to close the unused side.

(9) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 485 kW.

(10) To be installed in case of remote primary / secondary circuit interface with or without technical cabinet up to 1310 kW.

(11) On the delivery pipe there are specific sleeves for housing safety kit devices.

NOTE: to calculate the maximum permissible power of the VICs, with different pressure supply from 20 mbar, contact the pre-sales service.

5. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
3" hydraulic separator (up to 485 kW)		20145255
5" hydraulic separator (up to 1310 kW)		20145260
Left technical box with hydraulic separator (up to 485 kW)	(1)	20145252
Left technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145254
Right technical box with hydraulic separator (up to 485 kW)	(1)	20145247
Right technical box with hydraulic separator (up to 1310 kW)	(D)(1)	20145250
Connection kit for plate heat exchanger DN80/DN50		20146827
Connection kit for plate heat exchanger DN125/DN65		20146828
Connection kit for plate heat exchanger DN125/DN100		20146829
Left technical box for plate heat exchanger (up to 485 kW)		20146833
Left technical box for plate heat exchanger (up to 800 kW)	(D)	20146835
Left technical box for plate heat exchanger (up to 1310 kW)	(D)	20146836
Right technical box for plate heat exchanger (up to 485 kW)		20146830
Right technical box for plate heat exchanger (up to 800 kW)	(D)	20146831
Right technical box for plate heat exchanger (up to 1310 kW)	(D)	20146832
Right/left technical box or 3" extension kit (270/485 kW)	(D)(2)(3)	20158562
Right/left technical box or 5" extension kit (580/1310 kW)	(D)(2)(3)	20158564

- (D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
- (1) Contain the hydraulic separator within them.
- (2) Single or twin type pump.
- (3) They do not contain the circulator inside them.

MATCHING TABLE OF SAFETY DEVICES IN RELATION TO THE UNIT MODEL

Description	Safety kit	Safety valves	VIC valves											
			MANDATORY ACCESSORIES							ACCESSORIES TO BE SELECTED ACCORDING TO INSTALLATION				
			Safety kit	Safety valve up to 460 kW (5.4 bar ØG.3/4" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" 1/2	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"	Without technical box		With technical box		
	20071190	20023104	20023106	20009486	20009482	20009483	200061640	20145184	2009487	20161191	20145184	20146852		
STEEL PRO POWER 114-2	1x ●	1x ●		1x ●					1x ●					
STEEL PRO POWER 140-2	1x ●	1x ●			1x ●				1x ●					
STEEL PRO POWER 180-2	1x ●	1x ●			1x ●				1x ●					
STEEL PRO POWER 230-2	1x ●	1x ●			1x ●				1x ●					
STEEL PRO POWER 270-2	1x ●	1x ●						1x ●	1x ●		1x ●			
STEEL PRO POWER 300-3	1x ●	1x ●							1x ●					
STEEL PRO POWER 345-3	1x ●	1x ●							1x ●					
STEEL PRO POWER 405-3	1x ●	1x ●							1x ●		1x ●			
STEEL PRO POWER 460-4	1x ●	1x ●							1x ●					
STEEL PRO POWER 540-4	1x ●		1x ●					1x ●	1x ●				1x ●	
STEEL PRO POWER SYSTEM 675	1x ●	2x ●					1x ●			1x ●				
STEEL PRO POWER SYSTEM 810	1x ●	2x ●					1x ●			1x ●				
STEEL PRO POWER SYSTEM 945	1x ●	2x ●					1x ●			1x ●				
STEEL PRO POWER SYSTEM 1080	1x ●	3x ●					1x ●			1x ●				
STEEL PRO POWER SYSTEM 1215	1x ●	3x ●					1x ●			1x ●				
STEEL PRO POWER SYSTEM 1350	1x ●	3x ●					1x ●			1x ●				

MATCHING TABLE OF FLANGE, HYDRAULIC REDUCTION CODES IN RELATION TO THE UNIT MODEL

Description	Flanged reduction kit 5" / 3" (DN125/DN80)	3" closing plugs kit	5" closing plugs kit	3" through-flanges kit	5" through-flanges kit
	20145183	20070903	20070907	20082190	20082191
STEEL PRO POWER 114-2		1x ●		2x ●	
STEEL PRO POWER 140-2		1x ●		2x ●	
STEEL PRO POWER 180-2		1x ●		2x ●	
STEEL PRO POWER 230-2		1x ●		2x ●	
STEEL PRO POWER 270-2	2x ● (*)		1x ●	2x ●	
STEEL PRO POWER 300-3		1x ●		2x ●	
STEEL PRO POWER 345-3		1x ●		2x ●	
STEEL PRO POWER 405-3	2x ● (*)		1x ●	2x ●	
STEEL PRO POWER 460-4		1x ●		2x ●	
STEEL PRO POWER 540-4			1x ●		2x ●
STEEL PRO POWER SYSTEM 675			1x ●		2x ●
STEEL PRO POWER SYSTEM 810			1x ●		2x ●
STEEL PRO POWER SYSTEM 945			1x ●		2x ●
STEEL PRO POWER SYSTEM 1080			1x ●		2x ●
STEEL PRO POWER SYSTEM 1215			1x ●		2x ●
STEEL PRO POWER SYSTEM 1350			1x ●		2x ●

(*) Accessories necessary for the hydraulic connection to technical box.

EXTENSION KIT SELECTION TABLE

Description	With/without technical box		With technical box			
	Extension kit 3"	Extension kit 5"	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit	2" - 1" 1/2" gas adapter for VIC valve	2" - 1" gas adapter for VIC valve
STEEL PRO POWER 114-2	●		●		●	
STEEL PRO POWER 140-2	●		●			●
STEEL PRO POWER 180-2	●		●			●
STEEL PRO POWER 230-2	●		●			●
STEEL PRO POWER 270-2	●		●			
STEEL PRO POWER 300-3	●		●			
STEEL PRO POWER 345-3	●		●			
STEEL PRO POWER 405-3	●		●			
STEEL PRO POWER 460-4	●		●			
STEEL PRO POWER 540-4		●		●		
STEEL PRO POWER SYSTEM 675		●		●		
STEEL PRO POWER SYSTEM 810		●		●		
STEEL PRO POWER SYSTEM 945		●		●		
STEEL PRO POWER SYSTEM 1080		●		●		
STEEL PRO POWER SYSTEM 1215		●		●		
STEEL PRO POWER SYSTEM 1350		●		●		

TECHNICAL CABINET SELECTION TABLE FOR EXTENSION KIT HOUSING

Description	2" - 1" gas adapter for VIC valve	2" - 1" ½ gas adapter for VIC valve	Right/left technical box or 3" extension kit	Right/left technical box or 5" extension kit
	20147994	20147990	20158562	20158564
STEEL PRO POWER 114-2	•		•	
STEEL PRO POWER 140-2		•	•	
STEEL PRO POWER 180-2		•	•	
STEEL PRO POWER 230-2		•	•	
STEEL PRO POWER 270-2			•	
STEEL PRO POWER 300-3			•	
STEEL PRO POWER 345-3			•	
STEEL PRO POWER 405-3			•	
STEEL PRO POWER 460-4			•	
STEEL PRO POWER 540-4				•
STEEL PRO POWER SYSTEM 675				•
STEEL PRO POWER SYSTEM 810				•
STEEL PRO POWER SYSTEM 945				•
STEEL PRO POWER SYSTEM 1080				•
STEEL PRO POWER SYSTEM 1215				•
STEEL PRO POWER SYSTEM 1350				•

MATCHING TABLE OF HYDRAULIC SEPARATOR AND ACCESSORIES IN RELATION TO THE UNIT MODEL

Description	Without technical box						With technical box			
	Left/right side installation						Left side installation		Right side installation	
	3" connections up to 485 kW	5" connections up to 1310 kW	3" hydraulic flow manifold	5" hydraulic flow manifold	3" hydraulic return manifold	5" hydraulic return manifold	Left technical box for hydraulic separator up to 485 kW	Left technical box for hydraulic separator up to 1310 kW	Right technical box for hydraulic separator up to 485 kW	Right technical box for hydraulic separator up to 1310 kW
	20145255	20145260	20145172	20145177	20145181	20145182	20145252	20145254	20145247	20145250
STEEL PRO POWER 114-2	•		•		•		•		•	
STEEL PRO POWER 140-2	•		•		•		•		•	
STEEL PRO POWER 180-2	•		•		•		•		•	
STEEL PRO POWER 230-2	•		•		•		•		•	
STEEL PRO POWER 270-2	•		•		•		•		•	
STEEL PRO POWER 300-3	•		•		•		•		•	
STEEL PRO POWER 345-3	•		•		•		•		•	
STEEL PRO POWER 405-3	•		•		•		•		•	
STEEL PRO POWER 460-4	•		•		•		•		•	
STEEL PRO POWER 540-4		•		•		•		•		•
STEEL PRO POWER SYSTEM 675		•		•		•		•		•
STEEL PRO POWER SYSTEM 810		•		•		•		•		•
STEEL PRO POWER SYSTEM 945		•		•		•		•		•
STEEL PRO POWER SYSTEM 1080		•		•		•		•		•
STEEL PRO POWER SYSTEM 1215		•		•		•		•		•
STEEL PRO POWER SYSTEM 1350		•		•		•		•		•

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY
($\Delta T = 10\text{ }^{\circ}\text{C}$ AVERAGE BETWEEN PRIMARY AND SECONDARY)

Description	Plate heat exchanger $\Delta T_{m1} = 10\text{ }^{\circ}\text{C}$														
	SP 35 - DN50 25 (25A) N	SP 35 - DN50 31 (31A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 45 (45A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 57 (57A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 40 - DN65 59 (59A) N	SP 40 - DN65 75 (75A) N	SP 40 - DN65 93 (93A) N	SP 60 - DN100 51 (51A) N	SP 60 - DN100 59 (59A) N	SP 60 - DN100 65 (65A) N	SP 60 - DN100 73 (73A) N
20140410															
20140411															
20140413															
20140414															
20140415															
20140416															
20140418															
20140419															
20014231															
20140426															
20140427															
20140435															
20140437															
20140438															
20140439															
STEEL PRO POWER 114-2	•														
STEEL PRO POWER 140-2	•														
STEEL PRO POWER 180-2		•													
STEEL PRO POWER 230-2			•												
STEEL PRO POWER 270-2				•											
STEEL PRO POWER 300-3					•										
STEEL PRO POWER 345-3						•									
STEEL PRO POWER 405-3							•								
STEEL PRO POWER 460-4								•							
STEEL PRO POWER 540-4									•						
STEEL PRO POWER SYSTEM 675										•					
STEEL PRO POWER SYSTEM 810											•				
STEEL PRO POWER SYSTEM 945												•			
STEEL PRO POWER SYSTEM 1080													•		
STEEL PRO POWER SYSTEM 1215														•	
STEEL PRO POWER SYSTEM 1350															•

NOTE: once the exchanger has been selected it is necessary to associate the accessories shown in the "Hydraulic accessories selection table for heat exchanger installation".

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY
($\Delta T = 7.2\text{ }^{\circ}\text{C}$ AVERAGE BETWEEN PRIMARY AND SECONDARY)

Description	Plate heat exchanger $\Delta T_{m1} = 7.2\text{ }^{\circ}\text{C}$														
	SP 35 - DN50 35 (35A) N	SP 35 - DN50 39 (39A) N	SP 35 - DN50 49 (49A) N	SP 35 - DN50 65 (65A) N	SP 35 - DN50 75 (75A) N	SP 35 - DN50 81 (81A) N	SP 35 - DN50 93 (93A) N	SP 35 - DN50 105 (105A) N	SP 35 - DN50 121 (121A) N	SP 40 - DN65 99 (99A) N	SP 40 - DN65 121 (121A) N	SP 40 - DN65 145 (145A) N	SP 60 - DN100 73 (73A) N	SP 60 - DN100 85 (85A) N	SP 60 - DN100 97 (97A) N
20140412															
20140413															
20140415															
20140418															
20140419															
20140420															
20140421															
20140423															
20140424															
20140428															
20140432															
20140433															
20140439															
20140440															
20083249															
STEEL PRO POWER 114-2	•														
STEEL PRO POWER 140-2		•													
STEEL PRO POWER 180-2			•												
STEEL PRO POWER 230-2				•											
STEEL PRO POWER 270-2					•										
STEEL PRO POWER 300-3						•									
STEEL PRO POWER 345-3							•								
STEEL PRO POWER 405-3								•							
STEEL PRO POWER 460-4									•						
STEEL PRO POWER 540-4										•					
STEEL PRO POWER SYSTEM 675											•				
STEEL PRO POWER SYSTEM 810												•			
STEEL PRO POWER SYSTEM 945													•		
STEEL PRO POWER SYSTEM 1080														•	
STEEL PRO POWER SYSTEM 1215															•
STEEL PRO POWER SYSTEM 1350															•

NOTE: once the exchanger has been selected, it is necessary to associate the accessories shown in the "Hydraulic accessories selection table for heat exchanger installation".

MATCHING TABLE OF HYDRAULIC ACCESSORIES FOR HEAT EXCHANGER INSTALLATION IN RELATION TO THE UNIT MODEL

Description	Without technical box			With technical box					
	Connection kit for plate heat exchanger DN80 (Ø3")/DN50	Connection kit for plate heat exchanger DN125 (Ø5")/DN65	Connection kit for plate heat exchanger DN125 (Ø5")/DN100	Left side installation			Right side installation		
				Left technical box for plate heat exchanger up to 485 kW	Left technical box for plate heat exchanger up to 800 kW	Left technical box for plate heat exchanger up to 1310 kW	Right technical box for plate heat exchanger up to 485 kW	Right technical box for plate heat exchanger up to 800 kW	Right technical box for plate heat exchanger up to 1310 kW
	20146827	20146828	20146829	20146833	20146835	20146836	20146830	20146831	20146832
STEEL PRO POWER 114-2	●			●			●		
STEEL PRO POWER 140-2	●			●			●		
STEEL PRO POWER 180-2	●			●			●		
STEEL PRO POWER 230-2	●			●			●		
STEEL PRO POWER 270-2	●			●			●		
STEEL PRO POWER 300-3	●			●			●		
STEEL PRO POWER 345-3	●			●			●		
STEEL PRO POWER 405-3	●			●			●		
STEEL PRO POWER 460-4	●			●			●		
STEEL PRO POWER 540-4		●			●			●	
STEEL PRO POWER SYSTEM 675		●			●			●	
STEEL PRO POWER SYSTEM 810		●			●			●	
STEEL PRO POWER SYSTEM 945			●			●			●
STEEL PRO POWER SYSTEM 1080			●			●			●
STEEL PRO POWER SYSTEM 1215			●			●			●
STEEL PRO POWER SYSTEM 1350			●			●			●

6. AUXILIARY ACCESSORIES FOR TECHNICAL BOX

Description	Notes	Code
Air/flue manifold technical box Ø160 mm L = 900 mm	(1)	20147030
Air/flue manifold technical box Ø300 mm L = 900 mm	(1)	20147028
Air/flue manifold technical box Ø160 mm L = 1800 mm	(1)	20157595
Air/flue manifold technical box Ø300 mm L = 1800 mm	(1)	20157598
"S" flue manifold technical box Ø300 mm L = 1800 mm (SP60-DN100)	(1)	20157599
Bands for crane lifting handling		20146844
Handling wheels	(2)	20146845
Internal light emergency and service kit		20146846

(1) To be used as indicated in the tables below.
 (2) To be used during installation.

OPEN CHAMBER BOILER CONFIGURATION

Selection table	Exhaust flue side	Technical box side
Table A	Right	Right
	Left	Left
Collectors not necessary	Left	Right
	Right	Left

ROOM SEALED BOILER CONFIGURATION

Selection table	Exhaust flue side	Air suction side	Technical box side
Table A	Right	Right	Right
	Left	Left	Left
Table B	Left	Right	Right
	Left	Right	Left
	Right	Left	Right
	Right	Left	Left
Collectors not necessary	Left	Left	Right
	Right	Right	Left

LEFT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger



RIGHT SIDE CONFIGURATION

Technical box for hydraulic separator



Technical box for plate heat exchanger

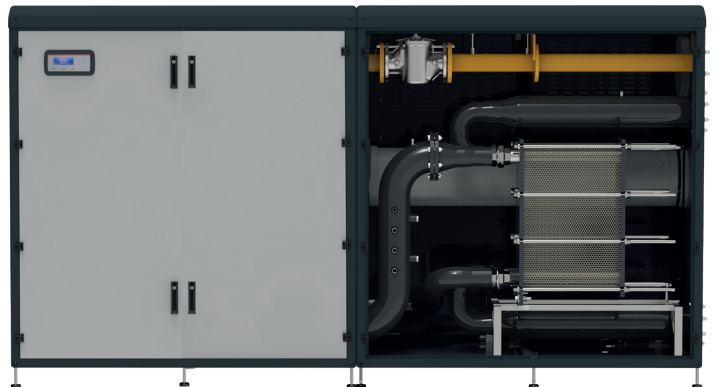


TABLE A

Code and number of the air/fume manifold Chamber type	Technical box for circulator (only "V" versions)				Technical box for hydraulic separator				Technical box for heat exchanger					
	Open chamber		Room sealed		Open chamber		Room sealed		Open chamber			Room sealed		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 140-2	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 180-2	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 230-2	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 270-2 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 300-3	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 345-3	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 405-3 (*)	1x ●				1x ●				1x ●					
STEEL PRO POWER 460-4	1x ●		2x ●		1x ●		2x ●		1x ●			2x ●		
STEEL PRO POWER 540-4		1x ●		2x ●		1x ●		2x ●		1x ●			2x ●	
STEEL PRO POWER SYSTEM 675		1x ●		2x ●		1x ●		2x ●		1x ●			2x ●	
STEEL PRO POWER SYSTEM 810		1x ●		2x ●		1x ●		2x ●		1x ●			2x ●	
STEEL PRO POWER SYSTEM 945		1x ●		2x ●		1x ●		2x ●			1x ●			(**)
STEEL PRO POWER SYSTEM 1080		1x ●		2x ●		1x ●		2x ●			1x ●			(**)
STEEL PRO POWER SYSTEM 1215		1x ●		2x ●		1x ●		2x ●			1x ●			(**)
STEEL PRO POWER SYSTEM 1350		1x ●		2x ●		1x ●		2x ●			1x ●			(**)

NOTE: to be used only if the fume outlet side is the same as the hydraulic outlet side.

(*) Flue discharge/ air intake on the technical box side not available in case of sealed chamber, the air intake is mandatory on the boiler side.

(**) In case of a technical box with plate heat exchanger and sealed installation, the air intake must take place on the boiler side and not on the technical box side. In this case also for the pump technical box, if present, is necessary to adopt only one code 20147028.

TABLE B

Code and number of the air/fume manifold Chamber type	Technical box for circulator (only "V" versions)				Technical box for hydraulic separator				Technical box for heat exchanger					
	Open chamber		Room sealed		Open chamber		Room sealed		Open chamber			Room sealed		
	20147030	20147028	20147030	20147028	20147030	20147028	20147030	20147028	20157595	20157598	20157599	20157595	20157598	20157599
STEEL PRO POWER 114-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 140-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 180-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 230-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 270-2	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 300-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 345-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 405-3	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 460-4	1x ●		1x ●		1x ●		1x ●		1x ●			1x ●		
STEEL PRO POWER 540-4		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 675		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 810		1x ●		1x ●		1x ●		1x ●		1x ●			1x ●	
STEEL PRO POWER SYSTEM 945		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1080		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1215		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●
STEEL PRO POWER SYSTEM 1350		1x ●		1x ●		1x ●		1x ●			1x ●			1x ●

7. AUXILIARY ACCESSORIES FOR OUTDOOR INSTALLATION

Description	Code
Kit IPX5D upper coverage for outdoor installation L = 900 mm	20146841
Kit IPX5D upper coverage for outdoor installation L = 1800 mm	20146842
Kit IPX5D display coverage	20146843
Outdoor insulation kit for 3" blind flanges	20146953
Outdoor insulation kit for 5" blind flanges	20146954

NOTE: to be used only in the case of outdoor installation.

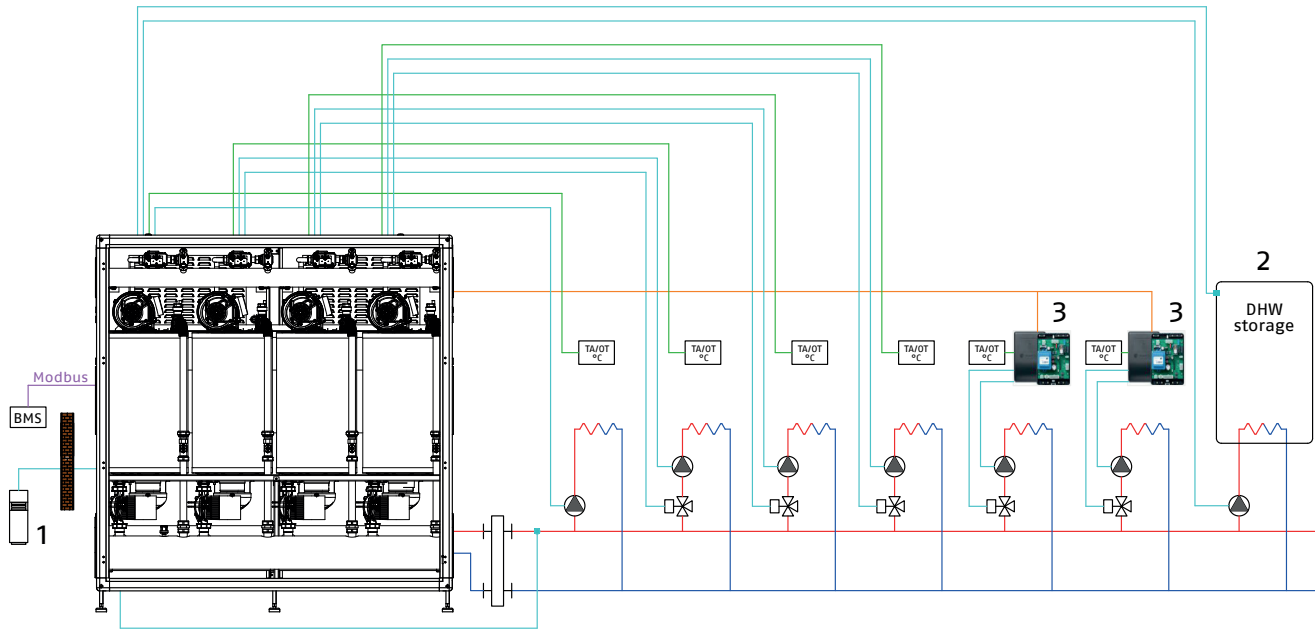
MATCHING TABLE OF BOX + DISPLAY COVERS SELECTION TABLE FOR OUTDOOR INSTALLATION

Description	Configuration with technical box for hydraulic separator					Configuration with technical box for plate heat exchanger				
	20146841	20146842	20146843	20146953	20146954	20146841	20146842	20146843	20146953	20146954
STEEL PRO POWER 114-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 140-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 180-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 230-2 P	2x ●		1x ●	1x ●		1x ●	1x ●	1x ●	1x ●	
STEEL PRO POWER 270-2 P	2x ●		1x ●		1x ●	1x ●	1x ●	1x ●		1x ●
STEEL PRO POWER 300-3 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 345-3 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 405-3 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●
STEEL PRO POWER 460-4 P	1x ●	1x ●	1x ●	1x ●			2x ●	1x ●	1x ●	
STEEL PRO POWER 540-4 P	1x ●	1x ●	1x ●		1x ●		2x ●	1x ●		1x ●
STEEL PRO POWER SYSTEM 675	2x ●	1x ●	2x ●		1x ●	1x ●	2x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 810	2x ●	1x ●	2x ●		1x ●	1x ●	2x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 945	1x ●	2x ●	2x ●		1x ●		3x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 1080	1x ●	2x ●	2x ●		1x ●		3x ●	2x ●		1x ●
STEEL PRO POWER SYSTEM 1215	2x ●	2x ●	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●
STEEL PRO POWER SYSTEM 1350	2x ●	2x ●	3x ●		1x ●	1x ●	3x ●	3x ●		1x ●

8. SECONDARY CIRCUIT MANAGEMENT ACCESSORIES

Description	Notes	Code
External probe		20132778
Immersion probe	(1)	1220599
Electronic management kit for single direct or additional mixed zone (max 16)		20130811

(1) Utilized for the management of secondary/tank circuit.



- 1. External probe
- 2. Cylinder probe
- 3. Electronic management kit for single direct or additional mixed zone

9. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

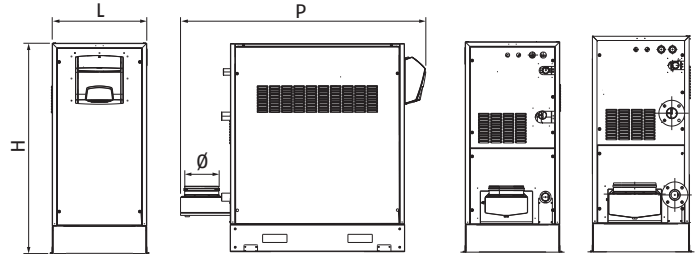
Description	Notes	Code
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450÷1500 kW)	(D)	4031812
Condensate neutralizer HN2 (up to 270 kW)	(1)	4031811
Condensate neutralizer HN3 (270÷750 kW)	(D)(1)	4031813

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

(1) Equipped with condensate pump.

Modular condensing floor-standing boilers for indoor installation

Alu Pro Power



- In conformity with Directive 2009/125/EC
- Modular floor-standing condensing boilers, featuring a heat-exchanger made of a special aluminium and silicon alloy with a wide modulation range (up to 1:40) and extremely reduced dimensions

Description	H mm	L mm	P mm	∅ mm	Flow/Return connection	Gas connection	Weight (empty) kg
ALU 115 PRO POWER	1534,5	690	1264	150	2" G	1" 1/2 G	240
ALU 150 PRO POWER	1534,5	690	1264	150	2" G	1" 1/2 G	240
ALU 225 PRO POWER	1534,5	690	1264	200	2" G	1" 1/2 G	310
ALU 300 PRO POWER	1534,5	690	1654	250	2" G	1" 1/2 G	395
ALU 349 PRO POWER	1534,5	690	1654	250	2" G	1" 1/2 G	470
ALU 375 PRO POWER	1534,5	690	1654	250	2" G	1" 1/2 G	470
ALU 450 PRO POWER	1534,5	690	2103	300	DN65 PN10	1" 1/2 G	565
ALU 525 PRO POWER	1534,5	690	2103	300	DN65 PN10	1" 1/2 G	640
ALU 600 PRO POWER	1534,5	690	2298	300	DN65 PN10	1" 1/2 G	735

The heat-generator is composed by a cascade of independent 75-kW thermal modules, managed in cascade sequence, ensuring the best adaptation to the heat request and maximum reliability and peace of mind.

Continuous pre-mix burner in stainless steel ensures efficient, noiseless and high-efficiency combustion with low polluting emissions allowing to achieve Class 5 NO_x (according to UNI EN 297). It is provided with thermoregulation suitable for the control of a modulating pump for the primary ring circuit.

The RIELLOtech regulation can control up to 8 boilers in a cascade application.

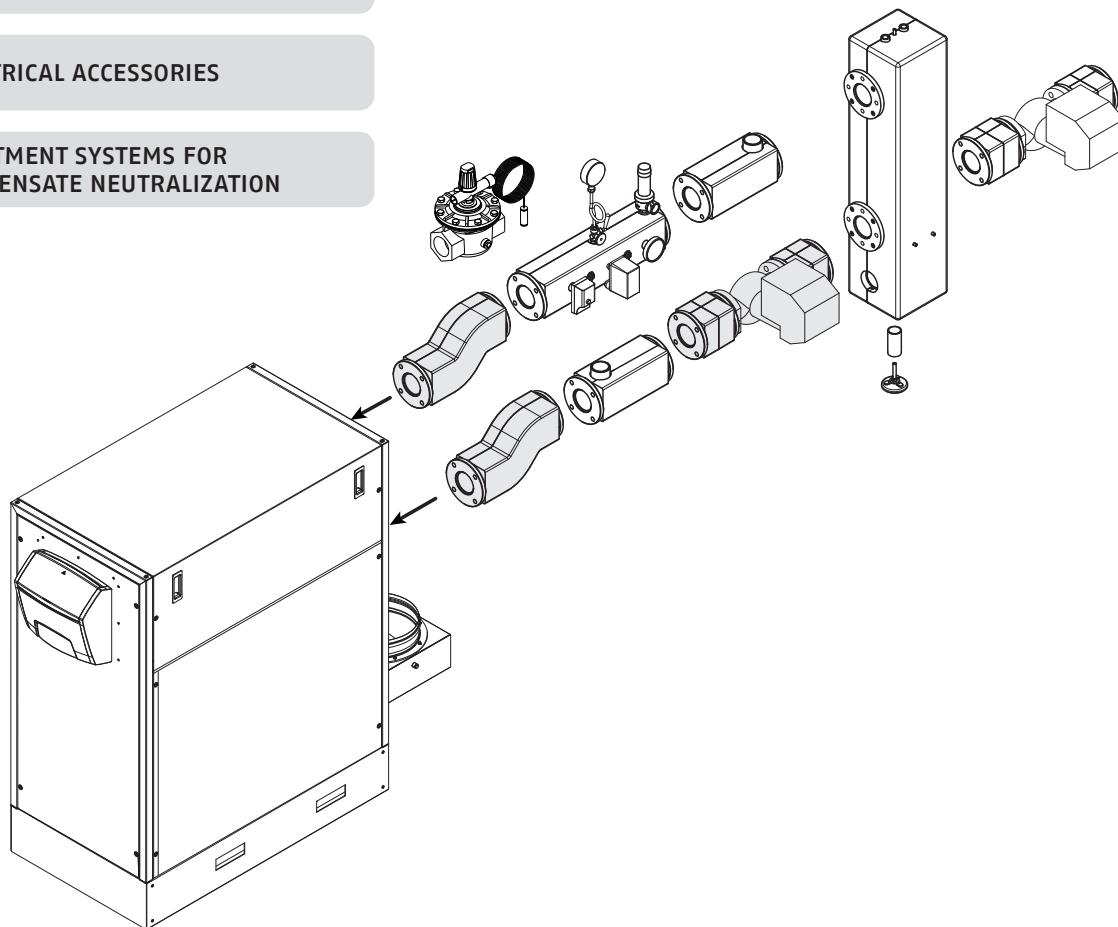
- Type of Appliance B23, B23P
- Low head losses
- Wide range of accessories for an easy, fast, flexible and complete installation
- Compact dimensions, reduced weight and the basement make the transport and the placement easier
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output 80°/60° max kW	Output 50°/30° max kW	Input min-max kW	Efficiency Pn (80°/60°) %	Efficiency Pn (50°/30°) %	Efficiency 30% Pn (50°/30°) %	Code
ALU 115 PRO POWER	112,1	119,6	15 - 115	97,5	104,0	108,0	20021781
ALU 150 PRO POWER	146,3	156,0	15 - 150	97,5	104,0	108,0	20020843
ALU 225 PRO POWER	219,4	234,0	15 - 225	97,8	104,0	108,0	20020844
ALU 300 PRO POWER	293,0	312,0	15 - 300	98,0	104,0	108,0	20020845
ALU 349 PRO POWER	340,3	363,0	15 - 349	98,3	104,0	108,0	20029287
ALU 375 PRO POWER	365,6	390,0	15 - 375	98,3	104,0	108,0	20020846
ALU 450 PRO POWER	438,8	468,0	15 - 450	98,3	104,0	108,0	20020847
ALU 525 PRO POWER	511,9	546,0	15 - 525	98,3	104,0	108,0	20020848
ALU 600 PRO POWER	585,0	624,0	15 - 600	98,3	104,0	108,0	20020849

SYSTEM CONFIGURATION GUIDE AND ACCESSORIES SELECTION

1. BOILER CONFIGURATION
2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES
3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS
4. ELECTRICAL ACCESSORIES
5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION



1. BOILER CONFIGURATION

Choice of the type of installation:

- A - Stand alone
- B - Cascade

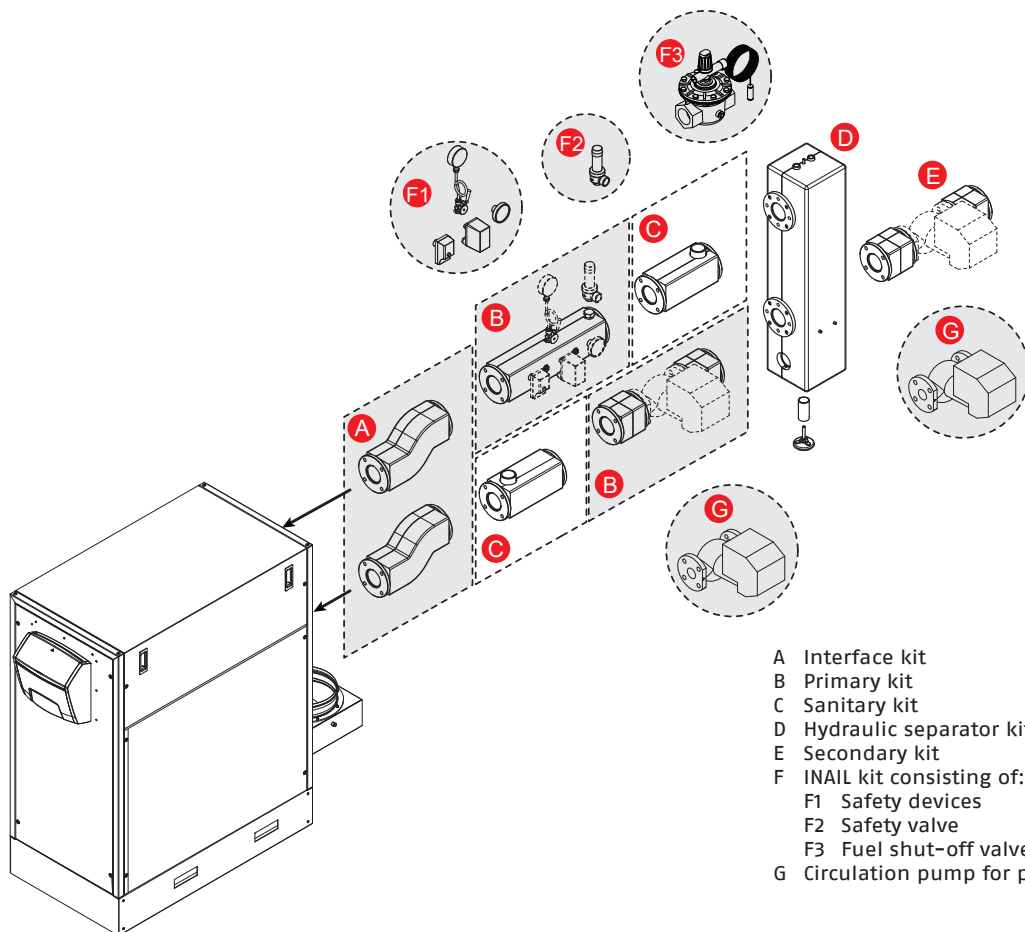
A - STAND ALONE HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER
Rated heat input kW	115,0	150,0	225,0	300,0	349,0	375,0	450,0	525,0	600,0

B - CASCADE SYSTEM HEAT INPUT

Description	ALU 115 PRO POWER	ALU 150 PRO POWER	ALU 225 PRO POWER	ALU 300 PRO POWER	ALU 349 PRO POWER	ALU 375 PRO POWER	ALU 450 PRO POWER	ALU 525 PRO POWER	ALU 600 PRO POWER
Boiler heat output kW	115	150	225	300	349	375	450	525	600
No. boilers	TOTAL POWER								
2	230	300	450	600	698	750	900	1050	1200
3	345	450	675	900	1047	1125	1350	1575	1800
4	460	600	900	1200	1396	1500	1800	2100	2400
5	575	750	1125	1500	1745	1875	2250	2625	3000
6	690	900	1350	1800	2094	2250	2700	3150	3600
7	805	1050	1575	2100	2443	2625	3150	3675	4200
8	920	1200	1800	2400	2792	3000	3600	4200	4800

PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT



- A Interface kit
- B Primary kit
- C Sanitary kit
- D Hydraulic separator kit
- E Secondary kit
- F INAIL kit consisting of:
 - F1 Safety devices
 - F2 Safety valve
 - F3 Fuel shut-off valve (VIC)
- G Circulation pump for primary/secondary circuit

2. MANIFOLDS, SAFETY KITS AND HYDRAULIC ACCESSORIES

Description	Notes	Code
Interface primary circuit kit up to 375 kW	(1)	20021753
Interface primary circuit kit up to 600 kW	(1)	20021752
Primary kit up to 300 kW	(2)	20021751
Primary kit up to 600 kW	(2)	20021750
Safety kit	(3)	4030091
Safety valve up to 460 kW (5.4 bar ØG.¾" F)	(4)	20023104
Safety valve up to 580 kW (5.4 bar ØG.1" F)	(4)	20023106
Fuel shut-off valve kit (VIC) - ØG.1"	(5)(9)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" ½	(5)(10)	20009482
Fuel shut-off valve kit (VIC) - ØG.2"	(5)(11)	20009483
Fuel shut-off valve kit (VIC) - ØG.3"	(5)(12)	20061640
Domestic water connection kit	(6)	20022521
Secondary kit up to 300 kW	(7)	20021756
Secondary kit up to 600 kW	(7)	20021755
VegA RMDA pump 40-80	(8)	20045845
VegA RMDA pump 65-90	(8)	20045849
Comunication module	(8)	20045865

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

- (1) Accessory type A.
- (2) Accessory type B.
- (3) Accessory type F1. To be completed with safety valve (F2) and VIC fuel shut-off valve (F3).
- (4) Accessory type F2.
- (5) Accessory type F3. Tripping temperature at 97 °C - Capillary length 5 m.
- (6) Accessory type C.
- (7) Accessory type E.
- (8) Accessory type G.
- (9) Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
- (10) Recommended up to a maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
- (11) Recommended up to a maximum power of 580 kW, calculated considering gas supply pressure = 20 mbar.
- (12) Recommended up to maximum power of 1310 kW, calculated considering gas supply pressure = 20 mbar.

3. HYDRAULIC SEPARATORS/PLATE HEAT EXCHANGERS

Description	Notes	Code
Hydraulic separator (up to 300 kW)	(1)	20009385
Hydraulic separator (up to 600 kW)	(1)	20009431
SP 20-DN32 49 (49A) N	(2)(3)	20014240
SP 35-DN50 31 (31A) N	(2)(3)	20140411
SP 35-DN50 45 (45A) N	(2)(3)	20140414
SP 35-DN50 57 (57A) N	(2)(3)	20140416
SP 35-DN50 75 (75A) N	(2)(3)	20140419
SP 40-DN65 93 (93A) N	(2)(3)	20140427
SP 40-DN65 111 (111A) N	(2)(3)	20140429
SP 40-DN65 121 (121A) N	(2)(3)	20140432

Refer to the paragraph "PRIMARY AND SECONDARY CIRCUIT CONFIGURATION KIT", specifically:

- (1) Accessory type D.
- (2) Plate heat exchangers for physical separation of primary and secondary circuits. To be used as an alternative to the hydraulic separator.
- (3) For accessories for Riello HEATgate plate heat exchangers refer to section "HEAT-EXCHANGERS" on page 417.

MATCHING TABLE FOR PRIMARY CIRCUIT MANAGEMENT (A-B-C)

Description	Interface primary circuit kit		Primary kit		Primary circuit pumps			DHW connection kit
	MANDATORY ACCESSORIES							OPTIONAL
	Interface primary circuit kit up to 375 kW	Interface primary circuit kit up to 600 kW	Primary kit up to 300 kW	Primary kit up to 600 kW	Vega RMDA pump 40-80	Vega RMDA pump 65-90	Communication module	Domestic water connection kit
	20021753	20021752	20021751	20021750	20045845	20045849	20045865	20022521
ALU 115 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 150 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 300 PRO POWER	1x ●		1x ●		1x ●		1x ●	1x ●
ALU 349 PRO POWER	1x ●			1x ●		1x ●	1x ●	1x ●
ALU 375 PRO POWER	1x ●			1x ●		1x ●	1x ●	1x ●
ALU 450 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●		1x ●	1x ●	1x ●

MATCHING TABLE OF SAFETY DEVICES (F)

Description	Safety kit	Safety valves		Fuel shut-off valve			
	Safety kit	Safety valve up to 460 kW (5.4 bar ØG.3/4" F)	Safety valve up to 580 kW (5.4 bar ØG.1" F)	Fuel shut-off valve kit (VIC) - ØG.1"	Fuel shut-off valve kit (VIC) - ØG.1" 1/2	Fuel shut-off valve kit (VIC) - ØG.2"	Fuel shut-off valve kit (VIC) - ØG.3"
	4030091	20023104	20023106	20009486	20009482	20009483	20061640
ALU 115 PRO POWER	1x ●	1x ●		1x ●			
ALU 150 PRO POWER	1x ●	1x ●			1x ●		
ALU 225 PRO POWER	1x ●	1x ●			1x ●		
ALU 300 PRO POWER	1x ●	1x ●				1x ●	
ALU 349 PRO POWER	1x ●	1x ●				1x ●	
ALU 375 PRO POWER	1x ●	1x ●				1x ●	
ALU 450 PRO POWER	1x ●	1x ●				1x ●	
ALU 525 PRO POWER	1x ●		1x ●			1x ●	
ALU 600 PRO POWER	1x ●	2x ●					1x ●

MATCHING TABLE OF HYDRAULIC SEPARATOR (D)

Description	Hydraulic separators	
	Hydraulic separator (up to 300 kW)	Hydraulic separator (up to 600 kW) kW
	20009385	20009431
ALU 115 PRO POWER	1x ●	
ALU 150 PRO POWER	1x ●	
ALU 225 PRO POWER	1x ●	
ALU 300 PRO POWER	1x ●	
ALU 349 PRO POWER		1x ●
ALU 375 PRO POWER		1x ●
ALU 450 PRO POWER		1x ●
ALU 525 PRO POWER		1x ●
ALU 600 PRO POWER		1x ●

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY ΔT = 15 °C

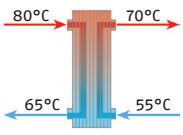
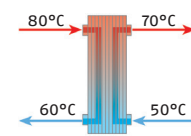
Description	Plate heat exchanger ΔT primary/secondary = 10 °C 						
	20140410	20140411	20140414	20140416	20140419	20140427	20140429
	SP 35 - DN50 25 (25A) N	SP 35 - DN50 31 (31A) N	SP 35 - DN50 45 (45A) N	SP 35 - DN50 57 (57A) N	SP 35 - DN50 75 (75A) N	SP 40 - DN65 93 (93A) N	SP 40 - DN65 111 (111A) N
							SP 40 - DN65 121 (121A) N
ALU 115 PRO POWER	●						
ALU 150 PRO POWER		●					
ALU 225 PRO POWER			●				
ALU 300 PRO POWER				●			
ALU 349 PRO POWER					●		
ALU 375 PRO POWER						●	
ALU 450 PRO POWER							●
ALU 525 PRO POWER							
ALU 600 PRO POWER							●

PLATE HEAT EXCHANGER COMBINATIONS FOR FOR BOILER OPERATION WITH PRIMARY ΔT = 20 °C

Description	Plate heat exchanger ΔT primary/secondary = 10 °C 							
	20014240	20140411	20140414	20140416	20140419	20140427	20140429	20140432
ALU 115 PRO POWER	●							
ALU 150 PRO POWER		●						
ALU 225 PRO POWER			●					
ALU 300 PRO POWER				●				
ALU 349 PRO POWER					●			
ALU 375 PRO POWER					●			
ALU 450 PRO POWER						●		
ALU 525 PRO POWER							●	
ALU 600 PRO POWER								●

MATCHING TABLE FOR SECONDARY CIRCUIT MANAGEMENT (E)

Description	Secondary circuit			Secondary circuit pumps	
	Secondary kit up to 300 kW	Secondary kit up to 600 kW	Vega RMDA pump 40-80	Vega RMDA pump 65-90	Communication module
ALU 115 PRO POWER	20021756		20045845		20045865
ALU 150 PRO POWER	1x ●		1x ●		1x ●
ALU 225 PRO POWER	1x ●		1x ●		1x ●
ALU 300 PRO POWER	1x ●		1x ●		1x ●
ALU 349 PRO POWER		1x ●		1x ●	1x ●
ALU 375 PRO POWER		1x ●		1x ●	1x ●
ALU 450 PRO POWER		1x ●		1x ●	1x ●
ALU 525 PRO POWER		1x ●		1x ●	1x ●
ALU 600 PRO POWER		1x ●		1x ●	1x ●

4. ELECTRICAL ACCESSORIES

Description	Notes	Code
RIELLOtech CLIMA COMFORT		4031069
CLIMA COMFORT		20010903
CLIMA DISPLAY		20010906
RC3 remote control kit		20155028
Interface kit for bus communication between Alu Pro Power and RIELLOtech	(1)	20021674
NTC solar collector immersion probe (10kΩ)	(2)	4031913
NTC immersion probe (10kΩ) - 5 metres	(3)	20010068
NTC O-ring probe (10kΩ)	(4)	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	(5)	20010103

- (1) Includes wiring and communication kit.
- (2) Solar system probe.
- (3) Primary probe (separator).
- (4) Mixed zone probe.
- (5) Storage tank probe.

5. TREATMENT SYSTEMS FOR CONDENSATE NEUTRALIZATION

Description	Notes	Code
N2 neutralisation kit (up to 450 kW)		4031810
HN2 neutralisation kit (up to 270 kW)	(D)	4031811
N3 neutraliser kit (from 450 to 1500 kW)		4031812
HN3 neutraliser kit (from 270 to 750 kW)	(D)(1)	4031813

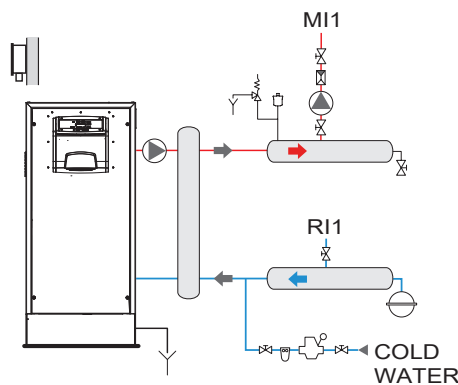
- (D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
- (1) Equipped with extraction pumps.

POSSIBLE SYSTEM COMPOSITIONS

DIRECT SYSTEM BASE CONFIGURATION 1

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Communication module	1	20045865

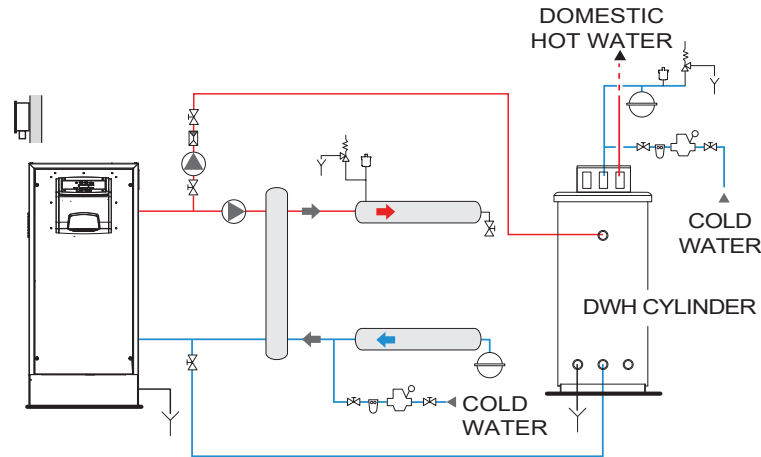
- (1) Refer to table "A - STAND ALONE HEAT INPUT".
- (2) Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER UPSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
Domestic water connection kit	1	20022521
Sanitary kit (300÷600 kW)	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

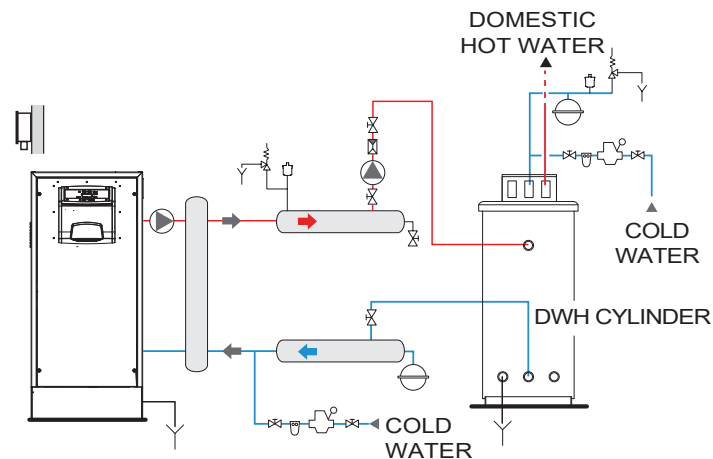
- (1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.



DHW BASE CONFIGURATION WITH HEATER DOWNSTREAM OF THE HYDRAULIC COMPENSATOR

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
Sanitary kit (300÷600 kW)	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

- (1) Refer to table "A - STAND ALONE HEAT INPUT".
(2) Refer to the matching tables on the previous pages.

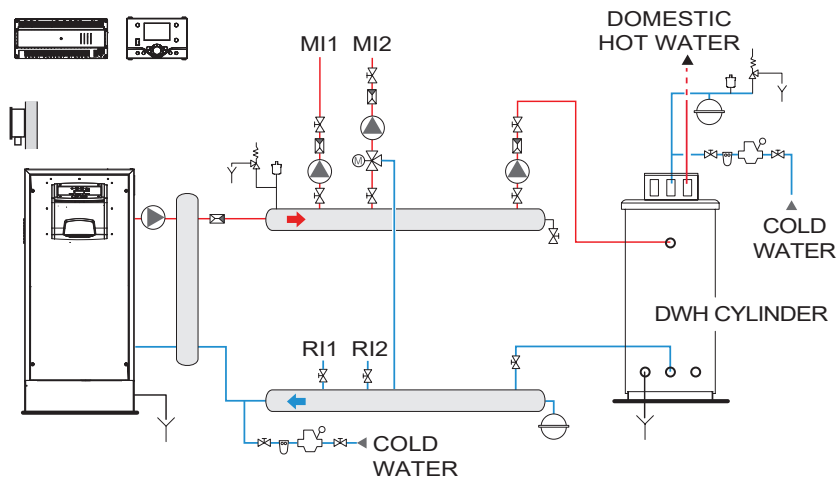


CONTROL PANEL SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068

- (1) Refer to table "A - STAND ALONE HEAT INPUT".
- (2) Refer to the matching tables on the previous pages.
- (*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



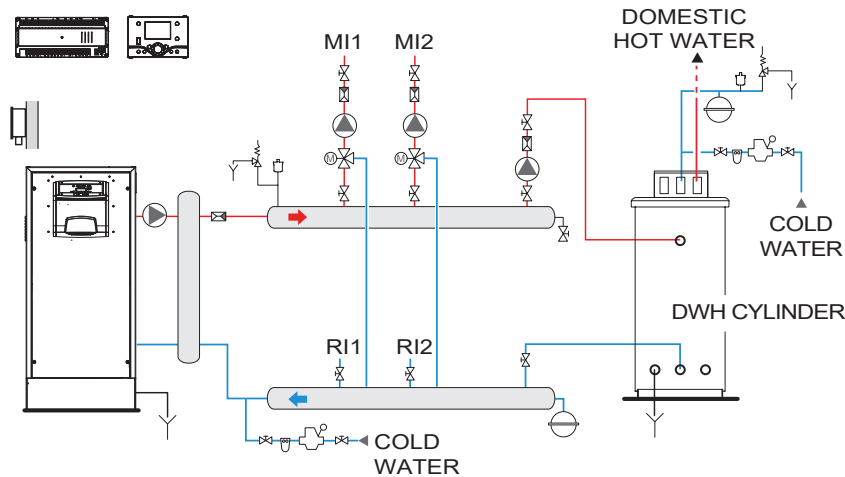
CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	2	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068

(1) Refer to table "A - STAND ALONE HEAT INPUT".

(2) Refer to the matching tables on the previous pages.

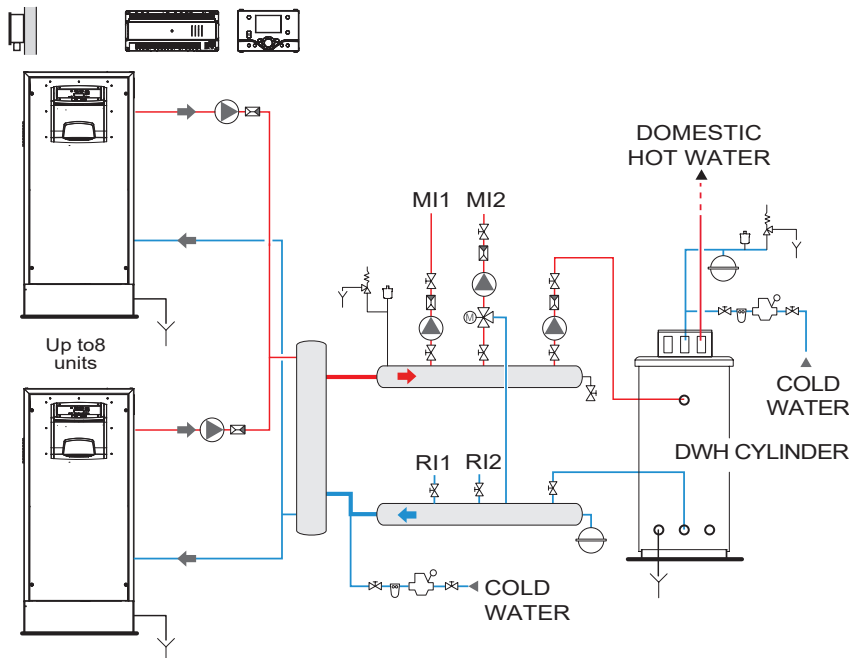
(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115÷600	1÷8	(1)
Interface primary circuit kit (375÷600 kW)	1÷8	(2)
Primary kit (300÷600 kW)	1÷8	(2)
Safety kit	1÷8	4030091
Safety valve (460÷580 kW)	1÷8	(2)
Fuel shut-off valve kit (1"÷3")	1÷8	(2)
VegA RMDA pump (40-80/65-90)	1÷8	(2)
Comunication module	1÷8	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC immersion probe (10kΩ) - 5 metres	1	20010068
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

(1) Refer to table "B - CASCADE SYSTEM HEAT INPUT".
 (2) Refer to the matching tables on the previous pages.
 (*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.



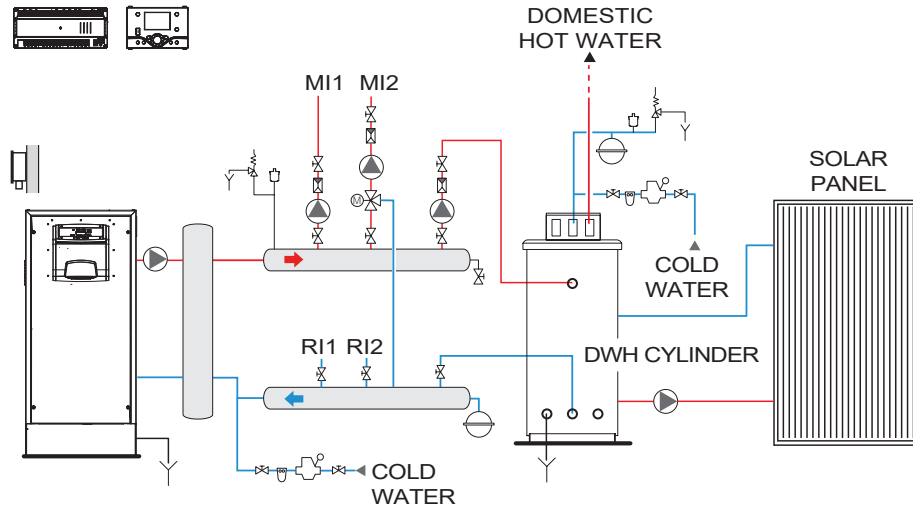
CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
CLIMA COMFORT	1	20010903
CLIMA DISPLAY (*)	1	20010906
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068
NTC solar collector immersion probe (10kΩ)	1	4031913

(1) Refer to table "A - STAND ALONE HEAT INPUT".

(2) Refer to the matching tables on the previous pages.

(*) To replace the CLIMA DISPLAY code 20010906, install the RC3 room control kit code 20155028.

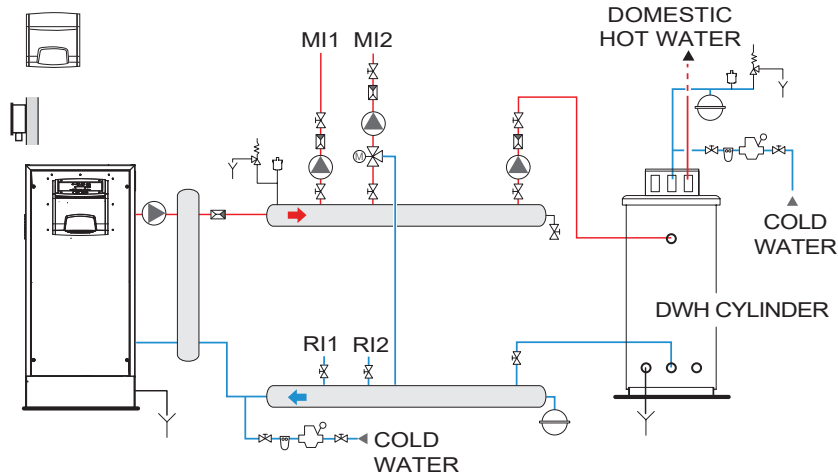


WALL MOUNTED SOLUTION

CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103
NTC immersion probe (10kΩ) - 5 metres	1	20010068

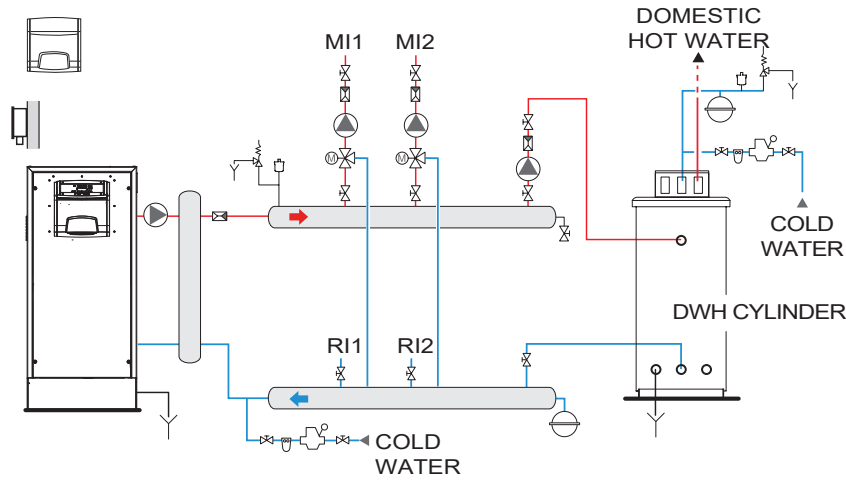
- (1) Refer to table "A - STAND ALONE HEAT INPUT".
- (2) Refer to the matching tables on the previous pages.



CONFIGURATION OF 2 MIXED SYSTEMS + DHW

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10k Ω)	2	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10k Ω) - 5 metres	1	20010068

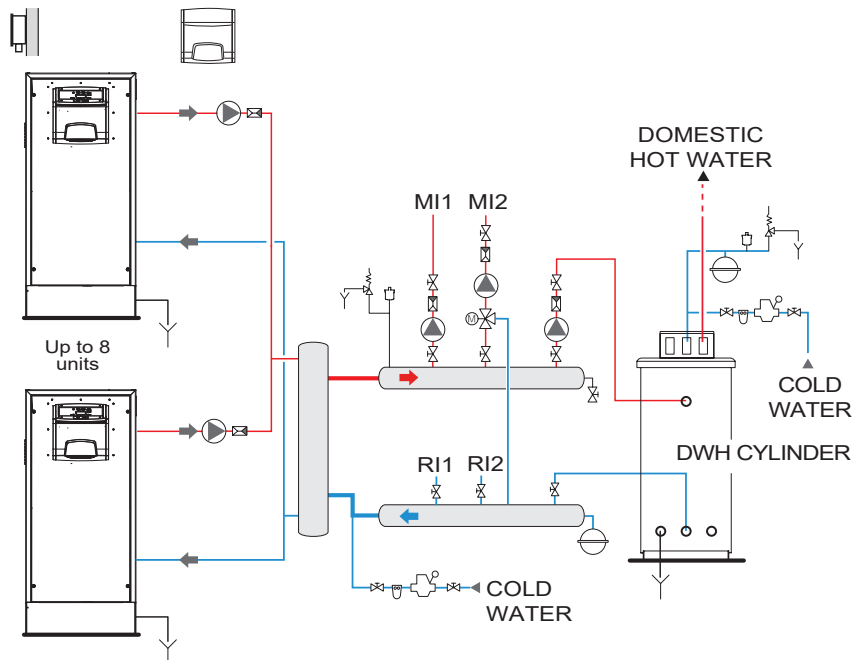
- (1) Refer to table "A - STAND ALONE HEAT INPUT".
 (2) Refer to the matching tables on the previous pages.



CASCADE CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW (maximum 8 generators)

Description	Quantity	Code
ALU PRO POWER 115÷600	1÷8	(1)
Interface primary circuit kit (375÷600 kW)	1÷8	(2)
Primary kit (300÷600 kW)	1÷8	(2)
Safety kit	1÷8	4030091
Safety valve (460÷580 kW)	1÷8	(2)
Fuel shut-off valve kit (1"÷3")	1÷8	(2)
Vega RMDA pump (40-80/65-90)	1÷8	(2)
Comunication module	1÷8	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC immersion probe (10kΩ) - 5 metres	1	20010068
NTC O-ring probe (10kΩ)	1	20168680
NTC DHW-tank probe (10kΩ) - 5 metres	1	20010103

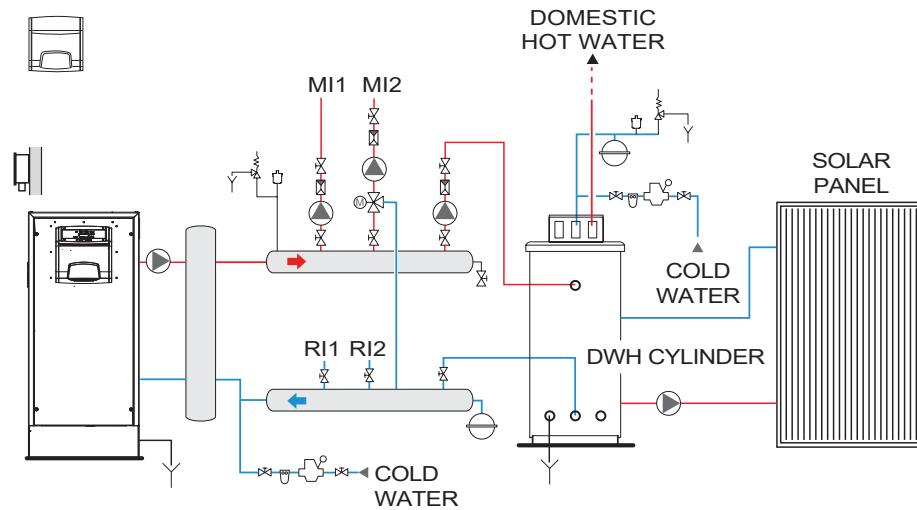
(1) Refer to table "B - CASCADE SYSTEM HEAT INPUT".
 (2) Refer to the matching tables on the previous pages.



CONFIGURATION OF 1 DIRECT SYSTEM + 1 MIXED SYSTEM + DHW WITH SOLAR PANEL

Description	Quantity	Code
ALU PRO POWER 115÷600	1	(1)
Interface primary circuit kit (375÷600 kW)	1	(2)
Primary kit (300÷600 kW)	1	(2)
Safety kit	1	4030091
Safety valve (460÷580 kW)	1	(2)
Fuel shut-off valve kit (1"÷3")	1	(2)
VegA RMDA pump (40-80/65-90)	1	(2)
Comunication module	1	20045865
Interface kit for bus communication between Alu Pro Power and RIELLOtech	1	20021674
RIELLOtech CLIMA COMFORT	1	4031069
NTC 0-ring probe (10k Ω)	1	20168680
NTC DHW-tank probe (10k Ω) - 5 metres	1	20010103
NTC immersion probe (10k Ω) - 5 metres	1	20010068
NTC solar collector immersion probe (10k Ω)	1	4031913

- (1) Refer to table "A - STAND ALONE HEAT INPUT".
 (2) Refer to the matching tables on the previous pages.



FLOOR-STANDING BOILERS



GAS



TAU UNIT

- TAU UNIT 35 (3,4-34,1 kW)
- TAU UNIT 50 (4,9-48,7 kW)
- TAU UNIT 70 (6,7-68,6 kW)
- TAU UNIT 100 (9,7-97,5 kW)
- TAU UNIT 115 (11,2-111,7 kW)
- TAU UNIT 140 (13,9-138,9 kW)
- TAU UNIT 190 (18,6-185,8 kW)

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TAU N

- TAU 115 N (80÷112,1 kW)
- TAU 150 N (108,2÷146,3 kW)
- TAU 210 N (147,5÷205,2 kW)
- TAU 270 N (207,3 ÷265,1 kW)
- TAU 350 N (266,5÷344,1 kW)
- TAU 450 N (345,2÷442,4 kW)
- TAU 600 N (443,5÷589,8 kW)
- TAU 800 N (591÷786,4 kW)
- TAU 1000 N (788÷983 kW)
- TAU 1150 N (984÷1129,3 kW)
- TAU 1250 N (984÷1229,7 kW)
- TAU 1450 N (1230÷1425 kW)
- TAU 1750 N (1426÷ 1718,5 kW)
- TAU 2100 N (1719÷2062,2 kW)
- TAU 2600 N (2063÷2553,2 kW)
- TAU 3000 N (2055÷ 2946,0 kW)

NEW

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TAU N PREMIX

- TAU 115 N PREMIX (80÷112,1 kW)
- TAU 150 N PREMIX (108,2÷146,3 kW)
- TAU 210 N PREMIX (147,5÷205,2 kW)
- TAU 270 N PREMIX (207,3÷265,1 kW)
- TAU 270 N PREMIX LPG (207,3÷265,1 kW)
- TAU 350 N PREMIX (266,5÷344,1 kW)
- TAU 450 N PREMIX (345,2÷442,4 kW)
- TAU 600 N PREMIX (443,5÷589,8 kW)
- TAU 800 N PREMIX (591÷786,4 kW)
- TAU 1000 N PREMIX (788÷983,0 kW)
- TAU 1150 N PREMIX (984÷1129,3 kW)
- TAU 1250 N PREMIX (984÷1229,7 kW)
- TAU 1450 N PREMIX (1230÷1425 kW)
- TAU 1750 N PREMIX (1426÷ 1718,5 kW)
- TAU 2100 N PREMIX (1719÷2062,2 kW)
- TAU 2600 N PREMIX (2063÷2553,2 kW)
- TAU 3000 N PREMIX (2055÷ 2946,0 kW)

NEW

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OIL



INSIEME EVO COND

- INSIEME EVO COND 45 LN
- INSIEME EVO COND 55 LN
- INSIEME EVO COND 70 LN

NEW

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TAU N OIL PRO

- TAU 115 N OIL PRO (78,1-112,24 kW)
- TAU 150 N OIL PRO (108,3-146,4 kW)
- TAU 210 N OIL PRO (147,5-205,17 kW)
- TAU 270 N OIL PRO (206,6-264,33 kW)
- TAU 350 N OIL PRO (266,1-343,7 kW)
- TAU 450 N OIL PRO (344,7-441,9 kW)
- TAU 600 N OIL PRO (442,9-589,2 kW)
- TAU 800 N OIL PRO (590,2-785,6 kW)
- TAU 1000 N OIL PRO (786,6-982 kW)

NEW

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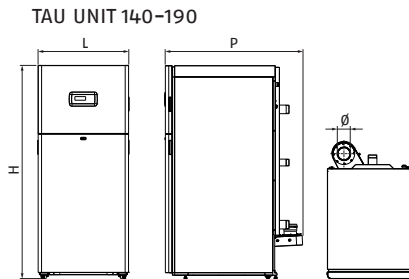
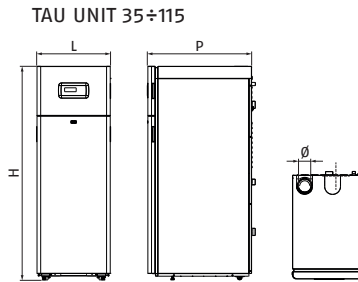
ONLY HEATING

Floor standing gas condensing boilers

Tau Unit



- In conformity with Regulation (EU) 2016/426
- Gas condensing boilers with a high water content titanium stabilised stainless steel body (AISI 316 "Ti" + AISI 444) and a low pollutant emission (Class 6 according to UNI EN 15502) modulating premix burner



Description	H mm	L mm	P mm	Ø mm	Net weight kg
TAU UNIT 35	1365	600	760	80	135
TAU UNIT 50	1550	600	890	80	155
TAU UNIT 70	1550	600	890	80	165
TAU UNIT 100	1810	600	870	110	245
TAU UNIT 115	1810	600	870	110	245
TAU UNIT 140	1880	800	1250	110	420
TAU UNIT 190	1880	800	1250	160	450

The high water content body has a vertical smoke pipe, and has two return lines to provide the best possible operation in condensing mode. The water stratifies at a high temperature at the top of the body, while the cold water accumulates at the bottom where the condensation occurs.

The boiler board, which has an easy-to-use interface, allows you to optimise the combustion, manage a remote storage cylinder for the production of domestic hot water and the supply temperature in climatic mode. The basic electronics includes include climatic regulation, management of the cascade of the modules, with integrated master/slave functions, the automatic switching between summer/winter and the possibility of managing a direct zone and a DHW storage cylinder.

The electronics also provides the possibility of the remote management using the 0-10V input or with the Modbus protocol.


With specific accessories it is also possible to manage the distribution of the secondary circuit, up to 16 mixed zones.

The optimal combustion management and the high modulation ratio of 1:10 (for models 35-115), provide a high performance and low polluting emissions (NO_x in Class 6 according to UNI EN 15502). All models include the external probe.

The range can operate with both methane gas and LPG (with the relative accessory).

- High quality and precision finishings
- 1:10 modulation ratio (up to model 115)
- Easy to maintain because all the internal components are fully accessible
- Smaller overall dimensions
- Maximum operating pressure: 5 bar.

TECHNICAL DATA

Description	Output kW			Useful efficiency			Energy efficiency class 	Code
	Useful max 80°/60°	Useful max 50°/30°	Heat output furnace min-max	Pn max (80°/60°) %	Pn max (50°/30°) %	Reduced load 30% of Pn (30 °C)		
TAU UNIT 35	34,0	37,0	3,5-34,8	97,7	106,3	107,7	A	20145133
TAU UNIT 50	48,5	54,5	4,9-49,0	97,1	109,2	108,9	A	20144105
TAU UNIT 70	68,0	76,5	6,9-69,9	97,3	109,4	108,5	A	20144106
TAU UNIT 100	97,5	106,5	10,0-100,0	97,5	109,2	108,6	-	20144107
TAU UNIT 115	112,0	125,4	11,5-115,0	97,4	109,0	108,8	-	20144108
TAU UNIT 140	136,9	152,0	28,0-140,0	97,8	108,6	108,8	-	20145135
TAU UNIT 190	185,8	205,2	38,0-190,0	97,8	108,0	108,4	-	20145136

ACCESSORIES








Description	Notes	Code
SAFETY ACCESSORIES		
Safety devices kit	(1)	20180519
Pressure gauge and safety valve set 4 bar	(2)	20181010
Pressure gauge and safety valve set 4,5 bar	(3)	20181867
Reduction fitting 2" - 1" 1/2	(4)	20182680
Reduction fitting 2"1/2 - 1"1/2	(5)	20154992
Fuel shut-off valve kit (VIC) - ØG.1"	(6)	20009486
Fuel shut-off valve kit (VIC) - ØG.1" 1/2	(7)	20009482
DN15 flowmeter		20149998
DN20 flowmeter		20149996
DN25 flowmeter		20146343
DN32 flowmeter		20146345
HYDRAULIC ACCESSORIES		
Expansion vessel (only for TAU UNIT 35)		20154816
Circulation pump (only for TAU UNIT 35)		20154812
Condensate neutralizer HN2 (up to 270 kW)	(8)	4031811
Condensate neutralizer N2 (up to 450 kW)		4031810
Condensate neutralizer N3 (450÷1500 kW)		4031812
Condensate neutralizer HN3 (270÷750 kW)	(8)(D)	4031813
LPG TRANSFORMATION KIT		
LPG transformation kit (TAU UNIT 35)		20145150
LPG transformation kit (TAU UNIT 50)		20144699
LPG transformation kit (TAU UNIT 70)		20144700
LPG transformation kit (TAU UNIT 100)		20144703
LPG transformation kit (TAU UNIT 115)		20144704
CASCADE CONFIGURATION, SECONDARY CIRCUIT AND ELECTRONIC ACCESSORIES		
External probe		20132778
Electronic kit for managing additional direct or mixed zone (max 16)	(9)	20130811
Immersion probe	(10)(11)	1220599
SEALED ROOM TRANSFORMATION KIT (TYPE C)		
Type C conversion kit (TAU UNIT 35-50)	(12)	20144759
Type C conversion kit (TAU UNIT 70)	(12)	20144760
Type C conversion kit (TAU UNIT 100-115)	(12)	20144761
Type C conversion kit (TAU UNIT 140-190)	(12)	20145154
FLUE DISCHARGE SYSTEM		
Conversion kit for back flue discharge (TAU UNIT 35)	(13)	20160064
Conversion kit for back flue discharge (TAU UNIT 50-70)	(13)	20147234
Conversion kit for back flue discharge (TAU UNIT 100-115)	(13)	20147235
PRIMARY CIRCUIT PUMPS FOR PLATE HEAT EXCHANGERS		
Primary circuit pump UPM3 FLEX AS 15-70 130 H6	(14)	20147597
Primary circuit pump UPML 32-105/180	(14)	20125034
Primary circuit pump UPM GEO 25-85/130	(14)	20147604

Description	Notes	Code
Primary circuit pump STRATOS PARA 30/1-12	(14)	20125040
Primary circuit VegA RMDA pump 32-70	(14)(15)	20061669
Primary circuit VegA RMDA pump 40-80	(14)(15)	20045845
Communication module VegA RMDA 40-80		20045865


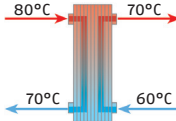
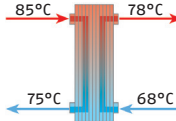
- (D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.
- (1) Includes stub pipe with safety kit, excluding: safety valve set + pressure gauge, fuel shut-off valves and flow meter set (to be ordered separately).
- (2) To be provided for Tau Unit 50-70 models
- (3) To be provided for Tau Unit 100+190 models
- (4) To be provided in case of safety kit installation for Tau Unit 100 and 115 models.
- (5) To be provided in case of safety kit installation for Tau Unit 140 and 190 models.
- (6) Recommended up to maximum power of 131 kW, calculated considering gas supply pressure = 20 mbar.
- (7) Recommended up to maximum power of 230 kW, calculated considering gas supply pressure = 20 mbar.
- (8) Equipped with extraction pumps.
- (9) For ambient temperature adjustment, use Riello thermostats and timed thermostats.
- (10) Used for secondary and heater management.
- (11) Used as primary probe for cascade system management.
- (12) Accessories for split discharge, for concentric discharge, to complete the installation, for the flue gas system, refer to page 331.
- (13) For each type, check the maximum equivalent lengths by referring to the technical data sheet and/or by contacting the pre-sales service. For the flue gas system, refer to page 331.
- (14) To be paired with HEATgate plate heat exchangers, depending on the operating conditions (primary/secondary ΔT°).
- (15) To be paired with the Communication module accessory.

NOTE: Tau Unit 140 and 190 do not require the accessory kit for LPG conversion.

COMBINATIONS SAFETY KIT ACCESSORIES


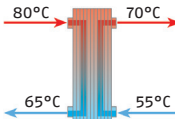
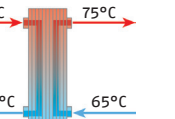
Description	Safety basic kit		Hydraulic fitting		Safety valve and pressure gauge		Fuel shut-off valve		Flowmeter																	
															$\Delta T = 20^\circ C$			$\Delta T = 15^\circ C$			$\Delta T = 10^\circ C$					
	Safety devices kit		Reduction fitting 2" - 1" 1/2		Reduction fitting 2" 1/2 - 1" 1/2		4,5 bar pressure gauge and safety valve set		Pressure gauge and safety valve set 4 bar		Gas shutting valve (VIC) - ØG.1"		Fuel shut-off valve kit (VIQ) - ØG.1" 1/2		DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter	DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter	DN15 flowmeter	DN20 flowmeter	DN25 flowmeter	DN32 flowmeter
	20180519		20182680		20154992		20181867		20181010		20009486		20009482		20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345	20149998	20149996	20146343	20146345
TAU UNIT 50	•						•				•			•						•						
TAU UNIT 70	•						•				•				•					•					•	
TAU UNIT 100	•		•				•		•		•			•						•						•
TAU UNIT 115	•		•				•		•		•			•						•						•
TAU UNIT 140	•			•			•		•		•			•						•						•
TAU UNIT 190	•			•			•		•		•			•				•		•						•

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY $\Delta T = 10^{\circ}C$

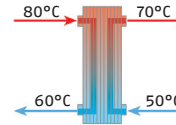
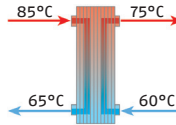
Description	Pump 	Plate heat exchangers	
		ΔT primary/secondary = $10^{\circ}C$	ΔT primary/secondary = $7,2^{\circ}C$
			
	UPM3 FLEX AS 15-70 130 H6	SP 20-DN32 21 (21A) N	SP 20-DN32 21 (21A) N
	UPML 32-105/180	SP 20-DN32 29 (29A) N	SP 20-DN32 29 (29A) N
	STRATOS PARA 30/1-12	SP 20-DN32 41 (41A) N	SP 20-DN32 41 (41A) N
	Vega RMDA 32-70 (*)	SP 35-DN50 25 (25A) N	SP 35-DN50 25 (25A) N
	Vega RMDA 40-80 (*)	SP 35-DN50 31 (31A) N	SP 35-DN50 31 (31A) N
	20045845	SP 35-DN50 35 (35A) N	SP 35-DN50 35 (35A) N
	20016742	SP 35-DN50 45 (45A) N	SP 35-DN50 45 (45A) N
	20014216	SP 20-DN32 21 (21A) N	SP 20-DN32 21 (21A) N
	20014217	SP 20-DN32 29 (29A) N	SP 20-DN32 29 (29A) N
	20140410	SP 20-DN32 41 (41A) N	SP 20-DN32 41 (41A) N
	20140411	SP 35-DN50 25 (25A) N	SP 35-DN50 25 (25A) N
	20140412	SP 35-DN50 31 (31A) N	SP 35-DN50 31 (31A) N
	20140414	SP 35-DN50 35 (35A) N	SP 35-DN50 35 (35A) N
	20016742	SP 35-DN50 45 (45A) N	SP 35-DN50 45 (45A) N
	20014216	SP 20-DN32 29 (29A) N	SP 20-DN32 29 (29A) N
	20014217	SP 20-DN32 41 (41A) N	SP 20-DN32 41 (41A) N
	20140410	SP 35-DN50 25 (25A) N	SP 35-DN50 25 (25A) N
	20140411	SP 35-DN50 31 (31A) N	SP 35-DN50 31 (31A) N
	20140412	SP 35-DN50 35 (35A) N	SP 35-DN50 35 (35A) N
	20140414	SP 35-DN50 45 (45A) N	SP 35-DN50 45 (45A) N
TAU UNIT 35	●		
TAU UNIT 50		●	
TAU UNIT 70			●
TAU UNIT 100			
TAU UNIT 115			●
TAU UNIT 140			
TAU UNIT 190			●

(*) To be combined with the "Communication module" code 20045865.

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY $\Delta T = 15^{\circ}C$

Description	Pump 	Plate heat exchangers	
		ΔT primary/secondary = $10^{\circ}C$	ΔT primary/secondary = $7,2^{\circ}C$
			
	UPM3 FLEX AS 15-70 130 H6	SP 20-DN32 21 (21A) N	SP 20-DN32 21 (21A) N
	UPM GEO 25-85/130	SP 20-DN32 29 (29A) N	SP 20-DN32 29 (29A) N
	UPML 32-105/180	SP 20-DN32 41 (41A) N	SP 20-DN32 41 (41A) N
	STRATOS PARA 30/1-12	SP 20-DN32 49 (49A) N	SP 20-DN32 49 (49A) N
	20016742	SP 35-DN50 25 (25A) N	SP 35-DN50 25 (25A) N
	20014216	SP 35-DN50 31 (31A) N	SP 35-DN50 31 (31A) N
	20014217	SP 35-DN50 35 (35A) N	SP 35-DN50 35 (35A) N
	20014240	SP 35-DN50 45 (45A) N	SP 35-DN50 45 (45A) N
	20140410	SP 20-DN32 21 (21A) N	SP 20-DN32 21 (21A) N
	20140412	SP 20-DN32 29 (29A) N	SP 20-DN32 29 (29A) N
	20016742	SP 20-DN32 41 (41A) N	SP 20-DN32 41 (41A) N
	20014216	SP 20-DN32 49 (49A) N	SP 20-DN32 49 (49A) N
	20014217	SP 35-DN50 25 (25A) N	SP 35-DN50 25 (25A) N
	20140411	SP 35-DN50 31 (31A) N	SP 35-DN50 31 (31A) N
	20140413	SP 35-DN50 35 (35A) N	SP 35-DN50 35 (35A) N
	20140416	SP 35-DN50 45 (45A) N	SP 35-DN50 45 (45A) N
TAU UNIT 35	●		
TAU UNIT 50	●		
TAU UNIT 70		●	
TAU UNIT 100			●
TAU UNIT 115			
TAU UNIT 140			●
TAU UNIT 190			●

COMBINATIONS OF PUMPS AND PLATE HEAT EXCHANGERS, FOR BOILER OPERATION WITH PRIMARY $\Delta T = 20^{\circ}C$

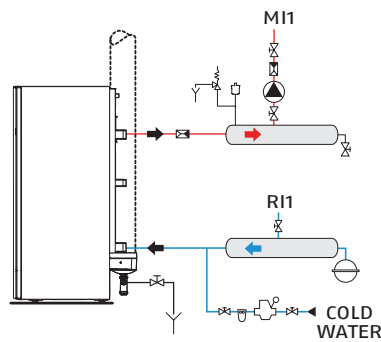
Description	Pump	Plate heat exchangers	
		ΔT primary/secondary = 10°C	ΔT primary/secondary = 7,2°C
			
	UPM3 FLEX AS 15-70 130 H6 UPM GEO 25-85/130 UPM L 32-105/180 STRATOS PARA 30/1-12 SP 20-DN32 21 (21A) N SP 20-DN32 29 (29A) N SP 20-DN32 41 (41A) N SP 20-DN32 49 (49A) N SP 35-DN50 25 (25A) N SP 35-DN50 35 (35A) N SP 20-DN32 29 (29A) N SP 20-DN32 41 (41A) N SP 20-DN32 49 (49A) N SP 35-DN50 31 (31A) N SP 35-DN50 35 (35A) N SP 35-DN50 39 (39A) N SP 35-DN50 57 (57A) N		
TAU UNIT 35	20147597		
TAU UNIT 50	20147604		
TAU UNIT 70	20125034		
TAU UNIT 100	20125040		
TAU UNIT 115	20016742		
TAU UNIT 140	20014216		
TAU UNIT 190	20014217		
	20014240		
	20140410		
	20140412		
	20014216		
	20014217		
	20014240		
	20140411		
	20140412		
	20140413		
	20140416		

POSSIBLE SYSTEM COMPOSITIONS

STANDARD CONFIGURATION 1 DIRECT SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Flowmeter (only for 50-190 model)	1	(2)

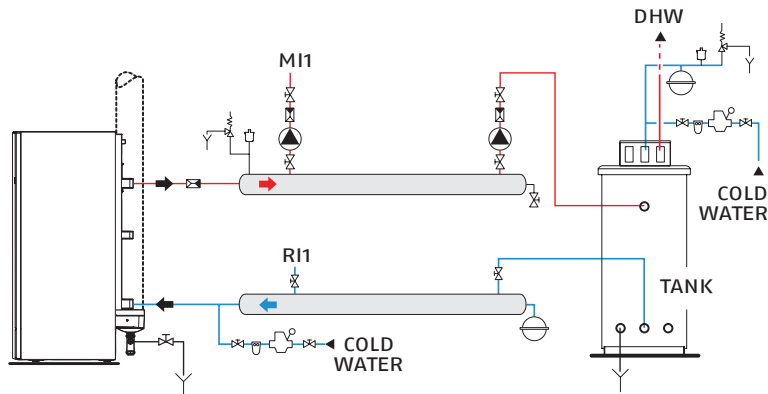
(1) Refer to the "Technical data" table.
 (2) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Immersion probe	1	1220599
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Flowmeter (only for 50-190 model)	1	(2)

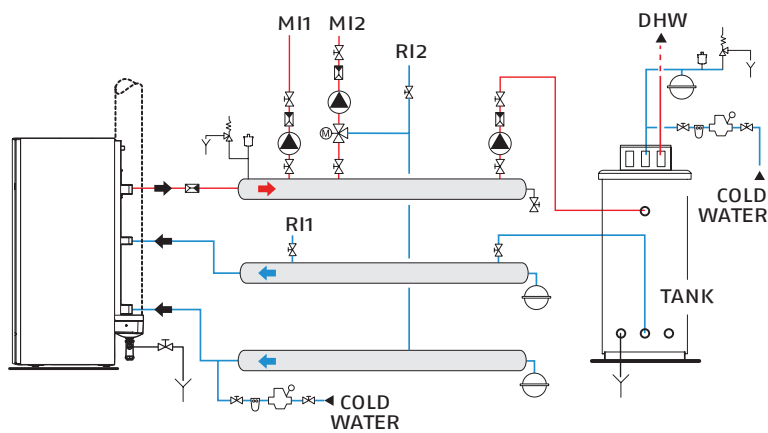
- (1) Refer to the "Technical data" table.
- (2) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for 50-190 model)	1	(2)

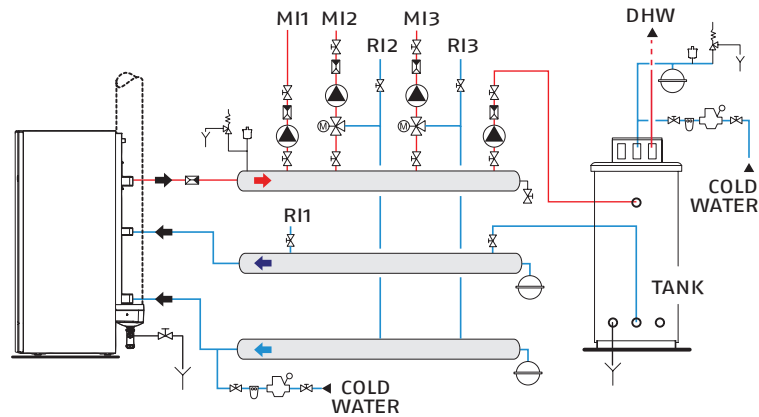
- (1) Refer to the "Technical data" table.
- (2) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CONFIGURATION 1 DIRECT SYSTEM + 2 MIXED + DHW SYSTEMS

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Immersion probe	1	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	2	20130811
Flowmeter (only for 50-190 model)	1	(2)

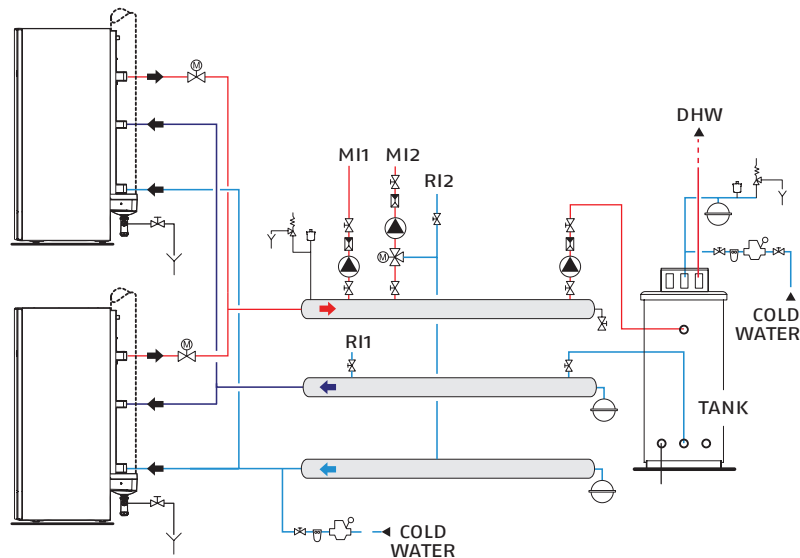
- (1) Refer to the "Technical data" table.
 (2) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



CASCADE CONFIGURATION 1 DIRECT SYSTEM + 1 MIXED + DHW SYSTEM (maximum 16 generators)

Description	Quantity	Code
TAU UNIT 35÷190	2	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	2	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	2	20009486
Immersion probe	2	1220599
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (1 for each boiler; only for 50-190 model)	2	(2)

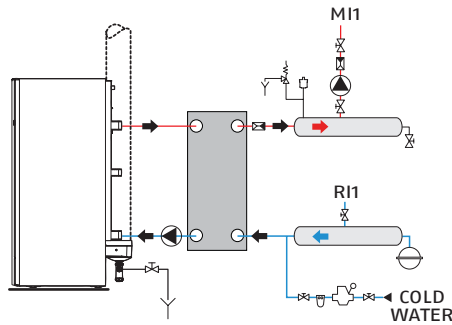
- (1) Refer to the "Technical data" table.
 (2) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



STANDARD CONFIGURATION 1 DIRECT SYSTEM WITH PLATE HEAT EXCHANGER

Description	Quantity	Code
TAU UNIT 35÷190	1	(1)
External probe	1	20132778
Manifold kit with INAIL safety devices (only for 50-190 model)	1	20145155
Fuel shut-off valve kit (VIC) - ØG.1" (only for 50-190 model)	1	20009486
Pump	1	(2)
Plate heat exchanger	1	(2)
Electronic kit for managing additional direct or mixed zone (max 16)	1	20130811
Flowmeter (only for 50-190 model)	1	(3)

- (1) Refer to the "Technical data" table.
- (2) Refer to the "Matching pumps and plate-type exchangers" table.
- (3) Refer to the "Flowmeter selection" table in the "ACCESSORIES" section.



HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

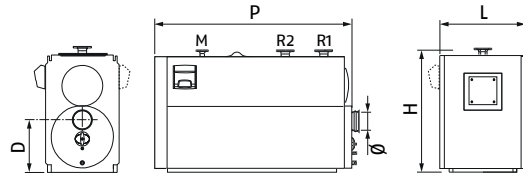
HOT AIR GENERATORS

Condensing three flue gas passes stainless steel jet burners boilers

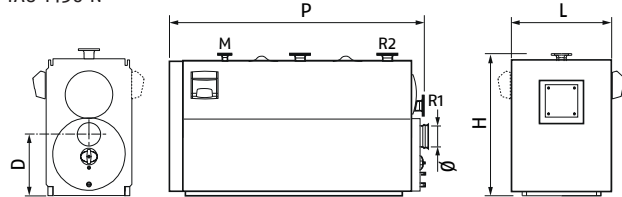
Tau N



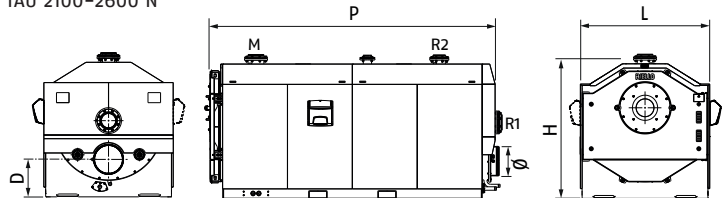
TAU 115÷1250 N



TAU 1450 N



TAU 2100-2600 N



- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content, suitable for the operation with gas jet burners

Description	H mm	L mm	P mm	D mm	Ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N	1315	740	1455	505	160	65	65	50	545
TAU 150 N	1315	740	1455	505	200	65	65	50	545
TAU 210 N	1315	740	1455	505	200	65	65	50	580
TAU 270 N	1450	850	1630	545	250	65	65	50	737
TAU 350 N	1450	850	1830	545	250	80	80	65	823
TAU 450 N	1630	900	2035	645	300	100	100	80	1185
TAU 600 N	1630	900	2235	645	300	100	100	80	1370
TAU 800 N	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N	1910	1060	2810	680	350	125	125	80	2245
TAU 1150 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1250 N	2030	1180	3010	720	400	150	150	100	2730
TAU 1450 N	2180	1225	3175	805	450	150	150	100	3280
TAU 1750 N	1945	1750	3620	521	400	200	200	150	4265
TAU 2100 N	1945	1750	4020	521	400	200	200	150	4750
TAU 2600 N	2128	1850	4425	552	450	200	200	150	5550
TAU 3000 N	2170	1950	4640	600	450	200	200	150	6750

M Delivery.

R1 Low temperature return system.

R2 High temperature return system.

TAU N is a condensing floor standing boiler, with high water content for heating room installation; suitable for heating and domestic hot water production in combination with a proper water tank .

Three-pass boiler, in which all the components in contact with the flue gas smokes are in titanium-stabilized stainless steel, designed on the principle of heat stratification: the combustion chamber at the top and the tube bundle at the bottom (smooth pipes with removable turbulators), allow to optimize heat exchange and energy efficiency, so as to obtain high efficiency, thanks to the condensation technique. The generator has been designed with a structure capable of containing thermal expansions; particular attention has been paid to the thermal insulation of the boiler body, the painted steel panels and the door, with the use of high density glass wool mats.

Some models are also available in a modular version. The models up to 1450 kW are developed with a vertical structure with overlapping planes, to facilitate handling and make easier the introduction into the heating room.

The new 1750÷3000 models are developed on a "square" structure with a single planking, to maintain the high water content and, at the same time, guarantee maximum efficiency.

To make easier the inspections, maintenance and cleaning of the internal parts, the front door and the closing of the smoke chamber can be fully opened.

- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with RIELLOtech control panels
- Built-in drain condensate
- Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Output kW			Useful efficiency			Back-pressure in combustion chamber mbar	Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace heat output	Pn max (80°/60°) %	Pn max (40°/30°) %	Reduced load 30% of Pn (30 °C)			
TAU 115 N	112,1	123,1	115	97,5	107	108	2,2		20120144
TAU 150 N	146,3	159,7	150	97,5	106,5	108,5	2,0		4031860.0
TAU 210 N	205,2	223,6	210	97,7	106,5	109,3	2,7		4031861.0
TAU 270 N	265,1	290,2	270	98,2	107,5	109,2	3,2		4031862.0
TAU 350 N	344,1	375,2	349	98,3	107,5	108,5	4,6		4031863.0
TAU 450 N	442,4	481,5	450	98,3	107	108,5	5,0		4031864.0
TAU 600 N	589,8	642	600	98,3	107	108,5	5,5		4031865.0
TAU 800 N	786,4	860	800	98,3	107	108,5	5,7	(D)(T)	4031866.0
TAU 1000 N	983	1070	1000	98,3	107	108,5	6,3	(D)(T)	4031867.0
TAU 1150 N	1129,3	1230,5	1150	98,3	107	108,5	6,6	(D)(T)	20136528
TAU 1250 N	1229,7	1337,5	1250	98,3	107	108,5	6,8	(D)(T)	4031868.0
TAU 1450 N	1425,6	1551,5	1450	98,3	107	108,5	7,4	(D)(T)	4031869.0
TAU 1750 N	1718,5	1881,2	1750	98,3	107,5	108,7	8,4	(D)(T)	20162157
TAU 2100 N	2062,2	2258,7	2100	98,3	107,5	108,7	9,6	(D)(T)	20162158
TAU 2600 N	2553,2	2796,5	2600	98,3	107,5	108,7	11,5	(D)(T)	20162159
TAU 3000 N	2946,0	3226,8	3000	98,3	107,5	108,7	11,6	(D)(T)	20162160

(D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.

(T) Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.
Maximum operating pressure 6 bar.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit up to 450 kW		4031810
N3 neutraliser kit from 450 to 1500 kW		4031812
HN2 neutralisation kit up to 270 kW	(1)	4031811
HN3 neutraliser kit from 280 to 750 kW	(1)(D)	4031813
MECHANICAL ACCESSORIES		
Burner flange		4031196
Burner flange		20178775
Burner flange		20163867

(1) Equipped with extraction pumps.

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

CONTROL PANELS

Description	Installation	Code
RIELLOtech CLIMA COMFORT	Vertical	4031069

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																Burner flange	Control panels			
		Yellow flame (Standard)																				
		Two stage								Modulating												
		-								Mechanical cam												
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 250/M MZ TC	RS 190 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1			RS 410/M MZ FS1		
TAU 450 N	5,0	●																	●			
	5,0							●												●	●	
TAU 600 N	5,5		●																	●		
	5,5								●												●	
TAU 800 N	5,7			●																	●	
	5,7									●											●	●
TAU 1000 N	6,3			●																	●	
	6,3										●										●	●
TAU 1150 N	6,6				●															●		●
	6,6											●								●		●
TAU 1250 N	6,8				●															●		●
	6,8												●							●		●
TAU 1450 N	7,4							●													●	●
	7,4													●						●		●
TAU 1750 N	8,4							●													●	
	8,4												●								●	●
TAU 2100 N	9,6								●												●	
	9,6														●						●	●
TAU 2600 N	11,5					●															●	
	11,5															●					●	●
TAU 3000 N	11,6							●													●	
	11,6																●				●	●

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner accessory	Burner flange	Control panels																																		
		Blue flame (Low NOx)																																														
		Modulating																																														
		Mechanical cam					Electronic cam																																									
							O ₂ control		O ₂ control + Inverter																																							
		BS3/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 68/M BLU TC	RS 55/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1				RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 68/E BLU	RS 55/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen Control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Riellotech Clima Comfort	3-point modulation kit						
TAU 115 N	2,2	3762350	3897606	3788006	3910510	3910610	3897406	20038484	3899711	20068219	20068270	3897632	3788032	3899810	3910710	3910810	3897432	20038491	20068217	20068279	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178775	20163867	4031069	20013035								
TAU 150 N	2,0																																															
TAU 210 N	2,7																																															
TAU 270 N	3,2																																															
TAU 350 N	4,6																																															
TAU 450 N	5,0																																															
TAU 600 N	5,5																																															
TAU 800 N	5,7																																															
TAU 1000 N	6,3																																															
TAU 1150 N	6,6																																															
TAU 1250 N	6,8																																															
TAU 1450 N	7,4																																															
TAU 1750 N	8,4																																															
TAU 2100 N	9,6																																															
TAU 2600 N	11,5																																															

- HYBRID SYSTEMS
- HEAT PUMPS
- WALL-HUNG BOILERS
- FLOOR-STANDING BOILERS
- WATER-HEATERS
- SOLAR THERMAL AND CYLINDERS
- CENTRALIZED HEATING
- AIR CONDITIONING
- TERMINAL UNITS
- SYSTEM COMPLEMENTARY ITEMS
- HOT AIR GENERATORS

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner accessory	Burner flange	Control panels			
		Blue flame (Low NOx)															
		Mechanical cam					Electronic cam										
							O ₂ control		O ₂ control + Inverter								
		BS3/M															
		3762350															
		3897606	RS 120/M BLU TC														
		3788006	RS 160/M BLU TC														
		3910510	RS 25/M BLU TC														
		3910610	RS 35/M BLU TC														
		3897406	RS 68/M BLU TC														
		20038484	RS 55/M BLU TC														
		3899711	RS 200/M BLU TL														
		20068219	RS 310/M BLU FS1														
		20068270	RS 440/M BLU FS1														
		3897632	RS 120/E BLU														
		3788032	RS 160/E BLU														
		3899810	RS 200/E BLU														
		3910710	RS 25/E BLU														
		3910810	RS 35/E BLU														
		3897432	RS 68/E BLU														
		20038491	RS 55/E BLU														
		20068217	RS 310/E BLU FS1														
		20068279	RS 440/E BLU FS1														
		20165996	RS 120/E 02 BLU TC														
		20164535	RS 160/E 02 BLU TL														
		20166368	RS 200/E 02 BLU TL														
		20166002	RS 310/E 02 BLU TC														
		20158157	RS 440/E 02 BLU TL														
		20154943	RS 120/EV 02 BLU TC														
		20158956	RS 160/EV 02 BLU TC														
		20156077	RS 200/EV 02 BLU TL														
		20166004	RS 310/EV 02 BLU TC														
		20174935	RS 440/EV 02 BLU TC														
		20045187	Oxygen Control kit														
		20163064	Variable speed drive 3,0 kW														
		20163071	Variable speed drive 5,5 kW														
		20163074	Variable speed drive 7,5 kW														
		20163093	Variable speed drive 11 kW														
		4031196	Burner flange														
		20178775	Burner flange														
		20163867	Burner flange														
		4031069	Riellotech Clima Comfort														
		20013035	3-point modulation kit														
TAU 2600 N	11,5																
	11,5																
	11,6																
TAU 3000 N	11,6																
	11,6																
	11,6																
	11,6																

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner																	Burner flange	Control panels						
		Yellow flame (Standard)																								
		Two stage								Modulating																
		Mechanical cam																								
		-																								
		RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS5D	RS 310/M MZ F51	RS 410/M MZ F51	RS 250/M MZ TC	RS 190 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 190/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ F51	RS 410/M MZ F51	Burner flange	Burner flange	RielloTech Klima Comfort	3-point modulation kit
		3789110	3784702	3785102	3785302	3785502	3762016	20068351	20068361	3788410	3785813	3788710	3788810	3781622	3789610	3789710	3789810	20052616	3787623	3788411	20068351	20068361	20178757	20178775	4-031069	2-0013035
TAU 270 N	3,2						•																		•	
	3,2											•													•	•
TAU 350 N	4,6	•																							•	
	4,6												•												•	•
TAU 450 N	5,0		•																						•	
	5,0													•											•	•
TAU 600 N	5,5			•																					•	
	5,5														•										•	•
TAU 800 N	5,7				•																				•	
	5,7															•									•	•
TAU 1000 N	6,3				•												•								•	
	6,3																•								•	•
TAU 1150 N	6,6					•																		•	•	
	6,6																•							•	•	•
TAU 1250 N	6,8					•																		•	•	
	6,8																•							•	•	•
TAU 1450 N	7,4										•														•	•
	7,4																	•						•	•	•
TAU 1750 N	8,4										•														•	
	8,4																	•							•	•
TAU 2100 N	9,6									•															•	
	9,6																	•							•	•
TAU 2600 N	11,5							•																	•	
	11,5																		•						•	•
TAU 3000 N	11,6								•																•	
	11,6																			•					•	•

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Gas burner																			Burner accessory	Burner flange	Control panels																											
		Blue flame (Low NOx)																																																
		Modulating																																																
		Mechanical cam										Electronic cam																																						
												O ₂ control					O ₂ control + Inverter																																	
		BS3/M	RS 25/M BLU TC	RS 35/M BLU TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TL	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 25/E BLU	RS 35/E BLU	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1				RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 200/E 02 BLU TL	RS 310/E 02 BLU TC	RS 410/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	RS 200/EV 02 BLU TL	RS 310/EV 02 BLU TC	RS 410/EV 02 BLU TC	Oxygen control kit	Variable speed drive 3,0 kW	Variable speed drive 5,5 kW	Variable speed drive 7,5 kW	Variable speed drive 11 kW	Burner flange	Burner flange	Burner flange	RielloTech Clima Comfort	3-point modulation kit							
TAU 115 N	2,2	3762350	3910510	3910610	20038484	3897406	3897606	3788006	3899711	20068219	20068270	3910710	3910810	20038491	3897432	3897632	3788032	3899810	20068261	20068294	20165996	20164535	20166368	20166002	20158157	20154943	20158956	20156077	20166004	20174935	20045187	20163064	20163071	20163074	20163093	4031196	20178757	20178775	20163867	4031069	20013035									
TAU 150 N	2,0																																																	
TAU 210 N	2,7																																																	
TAU 270 N	3,2																																																	
TAU 350 N	4,6																																																	
TAU 450 N	5,0																																																	
TAU 600 N	5,5																																																	
TAU 800 N	5,7																																																	
TAU 1000 N	6,3																																																	
TAU 1150 N	6,6																																																	
TAU 1250 N	6,8																																																	
TAU 1450 N	7,4																																																	
TAU 1750 N	8,4																																																	
TAU 2100 N	9,6																																																	
TAU 2600 N	11,5																																																	

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner accessory	Burner flange	Control panels	
		Blue flame (Low NOx)													
		Modulating													
		Mechanical cam					Electronic cam								
		-					O ₂ control		O ₂ control + Inverter						
		B53/M													
		3762350	RS 25/M BLU TC												
		3910510	RS 35/M BLU TC												
		3910610	RS 55/M BLU TC												
		20038484	RS 68/M BLU TC												
		3897406	RS 120/M BLU TC												
		3897606	RS 160/M BLU TC												
		3788006	RS 200/M BLU TL												
		3899711	RS 310/M BLU FS1												
		20068219	RS 410/M BLU FS1												
		20068270	RS 25/E BLU												
		3910710	RS 35/E BLU												
		3910810	RS 55/E BLU												
		20038491	RS 68/E BLU												
		3897432	RS 120/E BLU												
		3897632	RS 160/E BLU												
		3788032	RS 200/E BLU												
		3899810	RS 310/E BLU FS1												
		20068261	RS 410/E BLU FS1												
		20068294	RS 120/E 02 BLU TC												
		20165996	RS 160/E 02 BLU TL												
		20164535	RS 200/E 02 BLU TL												
		20166368	RS 310/E 02 BLU TL												
		20166002	RS 410/E 02 BLU TL												
		20158157	RS 120/EV 02 BLU TC												
		20154943	RS 160/EV 02 BLU TC												
		20158956	RS 200/EV 02 BLU TL												
		20156077	RS 310/EV 02 BLU TC												
		20166004	RS 410/EV 02 BLU TC												
		20174935	Oxygen Control kit												
		20045187	Variable speed drive 3,0 kW												
		20163064	Variable speed drive 5,5 kW												
		20163071	Variable speed drive 7,5 kW												
		20163074	Variable speed drive 11 kW												
		20163093	Burner flange												
		4031196	Burner flange												
		20178757	Burner flange												
		20178775	Burner flange												
		20163867	Riellotech Clima Comfort												
		4031069	3-point modulation kit												
		20013035													
TAU 2600 N	11,5														
	11,5														
	11,6														
TAU 3000 N	11,6														
	11,6														
	11,6														
	11,6														

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Condensing three flue gas passes stainless steel jet burners boilers

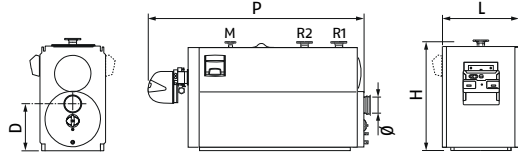
Tau N Premix NEW

Tau N combined with RX premixed gas burners

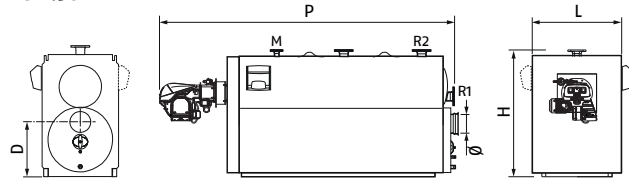


- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with a high water content
- Low emissions RX premix gas burner $\text{Du}8226$
- RIELLOtech Clima Comfort electronic control panel

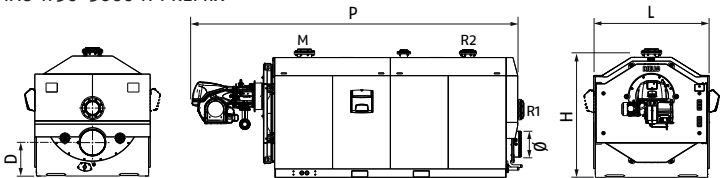
TAU 115÷1250 N PREMIX



TAU 1450 N PREMIX



TAU 1750-3000 N PREMIX



Description	H mm	L mm	P mm	D mm	Ø mm	M DN	R1 DN	R2 DN	Net weight kg
TAU 115 N PREMIX	1315	740	1960	505	160	65	65	50	582
TAU 150 N PREMIX	1315	740	1960	505	200	65	65	50	582
TAU 210 N PREMIX	1315	740	1960	505	200	65	65	50	617
TAU 270 N PREMIX	1450	850	2140	545	250	65	65	50	774
TAU 270 N PREMIX LPG	1450	850	2140	545	250	65	65	50	774
TAU 350 N PREMIX	1450	850	2380	545	250	80	80	65	865
TAU 450 N PREMIX	1630	900	2590	645	300	100	100	80	1233
TAU 600 N PREMIX	1630	900	2760	645	300	100	100	80	1426
TAU 800 N PREMIX	1910	1060	3080	680	350	125	125	80	2107
TAU 1000 N PREMIX	1910	1060	3330	680	350	125	125	80	2342
TAU 1150 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1250 N PREMIX	2030	1180	3900	720	400	150	150	100	2880
TAU 1450 N PREMIX	2180	1225	4060	805	450	150	150	100	3430
TAU 1750 N PREMIX	1945	1750	4800	521	400	200	200	150	4466
TAU 2100 N PREMIX	1945	1750	5200	521	400	200	200	150	4961
TAU 2600 N PREMIX	2128	1850	5610	552	450	200	200	150	5776
TAU 3000 N PREMIX	2170	1950	5820	600	450	200	200	150	6976

M Delivery.

R1 Low temperature return system.

R2 High temperature return system.

TAU N Premix is equipped with modulating burners with total premixing combustion, which guarantee very low emissions in atmosphere and a wide turndown ratio.

The burner is equipped with gas valves with proportional opening with pneumatic control; the gas is dosed in operation of the air introduced to the combustion head which is cylindrical radiating type. The mixing of air with gas takes place inside the burner fan (the fan is variable speed) allowing correct operation too in the presence of low gas supply pressures.

The premixed flame is characterized by a compact geometry, and a low noise level, which translates into a limited sound emission to the chimney, with obvious comfort acoustic advantages.

The modulation of the flame allows to adapt the delivery temperature according to the external temperature in order to optimize the efficiency. The flame ignition is guaranteed by an intermittent pilot flame device.

- Low polluting emissions
- Easy maintenance for total accessibility to internal components avoiding to disassemble the burner
- Equipped with the RIELLOtech Clima Comfort electronic control panel to manage cascades of boilers, complex solar systems, integration of multiple types of heat generators, two mixed zones, one direct and the production of domestic hot water
- Equipped with burner plate for premix burners
- Maximum working pressure: 6 bar.

TECHNICAL DATA

Description	Output kW			Useful efficiency			Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace heat output	Pn max (80°/60°)%	Pn max (40°/30°)%	Reduced load 30% di Pn (30°)		
TAU 115 N PREMIX	112,1	123,1	115	97,5	107,0	108,0	(B)(D)	20120146
TAU 150 N PREMIX	146,3	159,7	150	97,5	106,5	108,5	(B)(D)	20031981
TAU 210 N PREMIX	205,2	223,6	210	97,7	106,5	109,3	(B)(D)	20031987
TAU 270 N PREMIX	265,1	290,2	270	98,2	107,5	109,2	(C)(D)	20105079
TAU 270 N PREMIX LPG	265,1	290,2	270	98,2	107,5	109,2	(A)(D)	20105081
TAU 350 N PREMIX	344,1	375,2	349	98,3	107,5	108,5	(B)(D)	20105082
TAU 450 N PREMIX	442,4	481,5	450	98,3	107,0	108,5	(B)(D)	20105083
TAU 600 N PREMIX	589,8	642,0	600	98,3	107,0	108,5	(B)(D)	20105085
TAU 800 N PREMIX	786,4	860,0	800	98,3	107,0	108,5	(B)(D)(T)	20105086
TAU 1000 N PREMIX	983,0	1070,0	1000	98,3	107,0	108,5	(B)(D)(T)	20105089
TAU 1150 N PREMIX	1129,3	1230,5	1150	98,3	107,0	108,5	(B)(D)(T)	20166024
TAU 1250 N PREMIX	1229,7	1337,5	1250	98,3	107,0	108,5	(B)(D)(T)	20166025
TAU 1450 N PREMIX	1425,6	1551,5	1450	98,3	107,0	108,5	(B)(D)(T)	20166026
TAU 1750 N PREMIX	1718,5	1881,2	1750	98,3	107,5	108,7	(B)(D)(T)	20166039
TAU 2100 N PREMIX	2062,2	2258,7	2100	98,3	107,5	108,7	(B)(D)(T)	20166027
TAU 2600 N PREMIX	2553,2	2796,5	2600	98,3	107,5	108,7	(B)(D)(T)	20166030
TAU 3000 N PREMIX	2946,0	3226,8	3000	98,3	107,5	108,7	(B)(D)(T)	20166041

- (A) LPG.
 - (B) Natural gas-LPG.
 - (C) Natural gas.
 - (D) Availability of the material at our warehouse: 25 working days from the date of the order's validation.
 - (T) Product not subject to standard transport rates. For transport enhancement contact the Order Management Office.
- Maximum operating pressure 6 bar.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

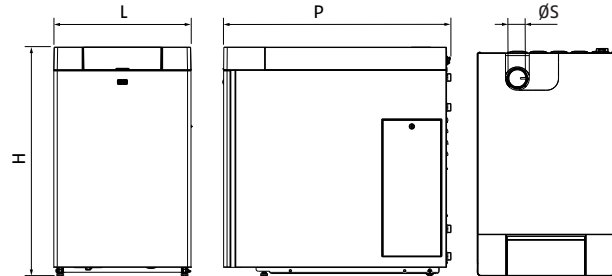
ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
N2 neutralisation kit (up to 450 kW)		4031810
N3 neutraliser kit (450÷1500 kW)		4031812
HN2 neutralisation kit (up to 270 kW)	(1)	4031811
HN3 neutraliser kit (280÷750 kW)	(1)(D)	4031813

- (1) Equipped with extraction pumps.
- (D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

Steel floor-standing oil condensing boilers

Insieme Evo Cond NEW



- In conformity with Directive 2009/125/EC
- Steel boilers with oil burner for heating and for the production of domestic hot water
- Low NOx version – class 3 according to EN 267

Description	H mm	L mm	P mm	ØA (*) mm	ØS mm	Net weight kg
Insieme EVO COND 45 LN	1138	600	1155	110	110	195
Insieme EVO COND 55 LN	1138	600	1155	110	110	198
Insieme EVO COND 70 LN	1138	600	1155	110	110	202

(*) Type C transformation kit as optional.

Oil condensing thermal group equipped with single stage burner for heat outputs up to 45 kW, dual stage for 55,70 kW models with low pollutant emissions.

The stainless steel boiler body has an horizontal layout, coated with insulating and sound absorbing material. Insieme EVO COND is available with open chamber configuration as standard, convertible as sealed chamber with specific accessory kits. Are available "only heating" versions or combined for the domestic hot water production with storage tank.

All the models are equipped a new electronic panel with backlight graphical display with five buttons and LEDs for the operating status displaying.

The control system provides the climatic regulation, the management of up to 3 zones distribution with specific accessory kits, the management of the sanitary hot water.

The electronics also provides the possibility of the remote management by means of the 0-10 V input, or with the Modbus protocol.

- Low sound emissions
- Flexible and cheapness installation. All the accessories for the operation and the safety are included in the furniture
- Simple maintainability: combustion chamber, flue manifold, control panel and hydraulic connexions are easily accessible
- Low pollutant emissions (class 3 according to EN 267 with Nox emissions $\leq 100\text{mg/kWh}$)
- Maximum working pressure: 3 bar
- Complete with flexible oil hoses

Insieme EVO COND 20÷35 V LN: thermal groups for the room heating with integrated 3 way valve for the connection with an external tank (optional)

Insieme EVO COND 25-35 B/130 LN: thermal group for the combined heating and domestic hot water production by means of an integrated 130 liters storage tank

Insieme EVO COND 45÷70 LN: thermal groups for the room heating.

TECHNICAL DATA

Description	Output kW		Efficiency %		Energy efficiency class		Code
	Useful (80/60 °C) max	Furnace min-max	Pn (80/60 °C) %	Useful 30% Pn (30 °C) %			
LOW NOX VERSION – HEATING ONLY							
Insieme EVO COND 45 LN	43,7	45	97,2	104,8	A	-	20145977
Insieme EVO COND 55 LN	53,3	40÷55	96,9	104,9	A	-	20145978
Insieme EVO COND 70 LN	67,7	55÷70	96,8	104,8	A	-	20145979

NOTE: for models with $P \leq 35$ kW (20, 25, 35 kW), go to the "FLOOR-STANDING BOILERS" section on page 274.


ACCESSORIES

Description	Notes	Code
SECONDARY CIRCUIT MANAGEMENT		
External probe		1220559
Domestic hot water probe		1220599
1 st direct/mixed zone management		20132795
2 nd /3 rd direct/mixed zone management		20132796
SEALED TRANSFORMATION (TYPE C)		
Ø110 mm type C transformation		20163285
SAFETY DEVICES		
Fuel shut-off valve kit (VIC) - ØG.1"		20009486
Pressure gauge- safety valve kit (2,5 bar)	(1)	20181008
Safety devices kit	(2)(3)	20180519
Safety kit adapter	(3)	20165826
FUEL FILTER		
Oil filter		20132792
FLUE DISCHARGE		
Ø110 - Ø110/160 mm adapter		20160472
HYDRAULIC ACCESSORIES		
DN70 hydraulic separator		4047314
CONDENSATE NEUTRALIZER		
DNO 1 neutralization kit		20182660
HN0 1.6 neutralization kit	(4)	20182664

- (1) To be combined with code 20180519.
- (2) It contains: pressure switch, minimum pressure switch and thermometer.
- (3) For 45-55-70 kW models.
- (4) Equipped with extraction pump.

RiCLOUD SMART REMOTE CONTROL

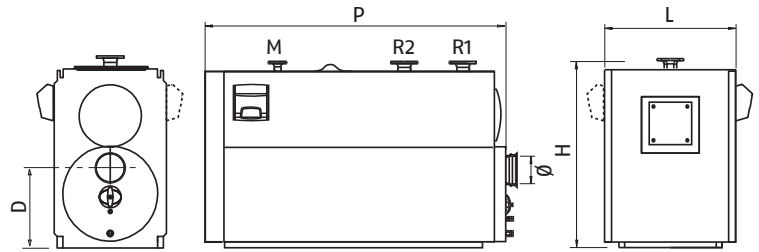
RiCloud modulating control system with remote boiler interface function (*) and possibility to be managed via App.

Drawing	Description	Notes	Code
	RiCLOUD with Wi-Fi box	(1)	20117394
	RiCLOUD	(2)	20117399
	Wi-Fi box		20111885
	RF-wireless boiler receiver		20117359

- (*) Specific functions available only connecting Riello boilers in OTBus communication. Possibility of connection with other generic boilers and other devices in ON / OFF mode.
- (1) With Wi-Fi box included for the connection to the home ADSL Wi-Fi Internet modem.
- (2) For cable connection to the boiler. Compatible for radio frequency connection with the Wi-Fi box code 20111885 (accessory not included and required for connection to the Internet using the home ADSL modem).

Condensing three flue gas passes oil and gas steel boilers

Tau N Oil Pro



- In conformity with Directive 2009/125/EC
- Condensing boilers made of stainless steel with three flue gas passes, with high water content, suitable for the operation with oil and gas jet burners
- Suitable for the operation with oil for heating according to UNI 6579 (sulphur content < 1000 ppm)

Description	H mm	L mm	P mm	D mm	M Ø-DN	R1 low temp. Ø-DN	R2 high temp. Ø-DN	Ø mm	Net weight kg
TAU 115 N OIL PRO	1315	740	1455	505	65	65	50	160	530
TAU 150 N OIL PRO	1315	740	1455	505	65	65	50	200	560
TAU 210 N OIL PRO	1315	740	1455	505	65	65	50	200	580
TAU 270 N OIL PRO	1450	850	1630	545	65	65	50	250	737
TAU 350 N OIL PRO	1450	850	1830	545	80	80	65	250	823
TAU 450 N OIL PRO	1630	900	2035	645	300	100	100	80	1185
TAU 600 N OIL PRO	1630	900	2235	645	300	100	100	80	1370
TAU 800 N OIL PRO	1910	1060	2560	680	350	125	125	80	2010
TAU 1000 N OIL PRO	1910	1060	2810	680	350	125	125	80	2245

The boiler has been designed to operate with heating standard oil, with sulphur content < 1000 ppm, thanks to the construction made of stainless steel AISI 316Ti and AISI 904 L. The boiler is based on the principle of heat stratification: in the upper part there is high temperature water, while in the lower part, where condensing takes place, remains a large quantity of cold water in order to ensure the condensation.

The generator structure has been studied to contain thermal expansion.

Particular care was given to ensure thermal insulation of the boiler body, casing and door by using high-density mineral wool and ceramic fibre. The control panel should be ordered separately.

- Low polluting emissions
- Reduced average temperature of the body and quick start-up time
- Several solutions thanks to the combination with Riellotech control panels
- Built-in condensate drain
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output kW			Working efficiency			Back pressure in the chamber mbar	Notes	Code
	Useful max 80°/60°	Useful max 40°/30°	Furnace thermal output	with max nominal output (80°/60°) %	with max nominal output (40°/30°) %	Red. load 30% of max nominal output (30°)			
TAU 115 N OIL PRO	112,2	120,6	115	97,6	104,9	104,8	2,2	(D)	20124420
TAU 150 N OIL PRO	146,4	157,4	150	97,6	104,8	104,7	2,0	(D)	20124421
TAU 210 N OIL PRO	205,2	220,1	210	97,7	104,7	104,6	2,7	(1)(D)	20124423
TAU 270 N OIL PRO	264,3	282,7	270	97,9	104,5	104,4	3,2	(1)(D)	20124424
TAU 350 N OIL PRO	343,7	365,8	350	98,2	104,5	104,1	4,6	(1)(D)	20124425
TAU 450 N OIL PRO	441,9	470,3	450	98,2	104,5	104,1	5,0	(1)(D)	20180060
TAU 600 N OIL PRO	589,2	627,0	600	98,2	104,5	104,1	5,5	(1)(D)	20180061
TAU 800 N OIL PRO	785,6	836,0	800	98,2	104,5	104,1	5,7	(1)(D)	20164743
TAU 1000 N OIL PRO	982,0	1045,0	1000	98,2	104,5	104,1	6,3	(1)(D)	20164757

- (1) The product can benefit from tax deductions for energy redevelopment if combined with a Modulating type burner (see recommended combinations table).
- (D) Availability of the material at our warehouse: 30 working days from the order receipt date.

ACCESSORIES

Description	Notes	Code
HYDRAULIC ACCESSORIES		
Neutralizer kit DNO 2 (up to 300 kW)		20182661
Neutralizer kit DNO 3 (up to 1000 kW)		20182663
Neutralizer kit HNO 1.6 (up to 200 kW)	(1)	20182664
Neutralizer kit HNO 3 (up to 1000 kW)	(1)(2)(D)	20182665
MECHANICAL ACCESSORIES		
Burner flange		4031196

- (1) Equipped with extraction pumps.
- (2) Contact pre-sales service.
- (3) On request.
- (D) Availability of the material at our warehouse: 30 working days from the order receipt date.

CONTROL PANELS

Description	Installation	Boiler model	Code
RIELLOtech CLIMA COMFORT	Vertical	TAU N 115-350 OIL	4031069

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS

For combination with GAS BURNER use correspondence tables provided for similar models of the TAU N range on page 264.

Description	Back-pressure in combustion chamber (mbar)	Oil burner						Dual fuel burner	Burner flange	Control panels		
		Yellow flame (Standard)	Blue flame (Low NOx)									
		Modulating	Two stage		Modulating							
		Mechanical cam	-		Mechanical cam							
		RL 100/M TL	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 120/M MX TL	Burner flange	Riellotech Clima Comfort	3-point modulation kit
		20166484	20015696	20027479	20027481	20027567	20169338	20169330	20147788	4031196	4031069	20013035
TAU 115 N OIL PRO	2,2		●								●	
TAU 150 N OIL PRO	2,0		●								●	
TAU 210 N OIL PRO	2,7			●							●	
TAU 270 N OIL PRO	3,2				●						●	
TAU 350 N OIL PRO	4,6						●				●	
TAU 450 N OIL PRO	5,0						●				●	
	5,0							●			●	●
TAU 600 N OIL PRO	5,5							●			●	●
TAU 800 N OIL PRO	5,7								●	●	●	●
	5,7								●	●	●	●
TAU 1000 N OIL PRO	6,3	●									●	●
	6,3								●	●	●	●

NOTE: the light oil burners must be completed with the light oil nozzles.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

STEEL JET BURNER BOILERS GAS/OIL



THREE FLUE GAS PASSES



RTS 3S

- RTS 3S 90 (85,1 kW)*
- RTS 3S 115 (108,3 kW)*
- RTS 3S 166 (157,4 kW)*
- RTS 3S 217 (207,5 kW)*
- RTS 3S 255 (244,0 kW)*
- RTS 3S 349 (334,7 kW)*



- RTS 3S 448 (427,8 kW)
- RTS 3S 511 (488,0 kW)
- RTS 3S 639 (610,2 kW)
- RTS 3S 850 (811,8 kW)
- RTS 3S 1160 (1107,8 kW)
- RTS 3S 1450 (1384,8 kW)

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RTS 2S

- RTS 115 2S (125 kW)
- RTS 150 2S (163 kW)
- RTS 200 2S (216 kW)
- RTS 247 2S (264 kW)
- RTS 319 2S (341 kW)



- RTS 410 2S (439 kW)
- RTS 526 2S (563 kW)
- RTS 736 2S (787 kW)
- RTS 850 2S (909 kW)
- RTS 1012 2S (1082 kW)
- RTS 1200 2S (1283 kW)
- RTS 1355 2S (1449 kW)
- RTS 1500 2S (1609 kW)
- RTS 1850 2S (1980 kW)

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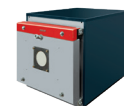


RTG

- | | |
|--------------------|---------------------|
| RTG 1000 (1165 kW) | RTG 3500 (4090 kW) |
| RTG 1200 (1410 kW) | RTG 4000 (4680 kW) |
| RTG 1500 (1760 kW) | RTG 4300 (5030 kW) |
| RTG 1800 (2040 kW) | RTG 5000 (5830 kW) |
| RTG 2100 (2510 kW) | RTG 6000 (7020 kW) |
| RTG 2600 (3020 kW) | RTG 7500 (8760 kW) |
| RTG 3000 (3520 kW) | RTG 9000 (10560 kW) |

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REVERSE FLAME



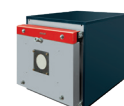
RTQ 3S

- RTQ 91 3S (87,1 kW)
- RTQ 115 3S (109,7 kW)
- RTQ 166 3S (158,7 kW)
- RTQ 217 3S (206,8 kW)
- RTQ 255 3S (243,3 kW)
- RTQ 318 3S (303,4 kW)
- RTQ 349 3S (332,0 kW)



- | | |
|-------------------------|-------------------------|
| RTQ 448 3S (427,4 kW) | RTQ 1300 3S (1240,2 kW) |
| RTQ 511 3S (487,5 kW) | RTQ 1600 3S (1526,4 kW) |
| RTQ 575 3S (548,6 kW) | RTQ 2100 3S (2003,4 kW) |
| RTQ 639 3S (609,6 kW) | RTQ 2400 3S (2289,6 kW) |
| RTQ 766 3S (730,8 kW) | RTQ 3000 3S (2860,0 kW) |
| RTQ 896 3S (854,8 kW) | RTQ 3500 3S (3339 kW) |
| RTQ 1100 3S (1049,4 kW) | RTQ 4000 3S (3816 kW) |

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RTQ 2S

- RTQ 50 2S (50,0 kW)
- RTQ 64 2S (64,0 kW)
- RTQ 82 2S (82,0 kW)
- RTQ 105 2S (105,0 kW)
- RTQ 154 2S (154,4 kW)
- RTQ 203 2S (202,7 kW)
- RTQ 235 2S (235,3 kW)
- RTQ 297 2S (297,0 kW)
- RTQ 323 2S (322,9 kW)
- RTQ 357 2S (356,7 kW)



- | | |
|-----------------------|-----------------------|
| RTQ 418 2S (418,0 kW) | RTQ 1700 2S (1700 kW) |
| RTQ 467 2S (467,0 kW) | RTQ 2020 2S (2020 kW) |
| RTQ 537 2S (537,1 kW) | RTQ 2320 2S (2320 kW) |
| RTQ 597 2S (596,8 kW) | RTQ 2620 2S (2620kW) |
| RTQ 715 2S (715,4 kW) | RTQ 2920 2S (2920 kW) |
| RTQ 837 2S (836,9 kW) | RTQ 3200 2S (3200 kW) |
| RTQ 920 2S (920 kW) | RTQ 3500 2S (3500 kW) |
| RTQ 1020 2S (1020 kW) | RTQ 4000 2S (4000 kW) |
| RTQ 1250 2S (1250 kW) | RTQ 4500 2S (4500 kW) |
| RTQ 1500 2S (1500 kW) | RTQ 5000 2S (5000 kW) |

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* Products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil.

NOTE: products in conformity with ErP Directive (EU Regulation Nr. 813/2013) with oil The distinguish between EU and Extra EU Countries is based only on the enforcement of the Ecodesign Regulation. The conformity to any other national Regulation must be confirmed.

Three flue gas passes steel jet burner boilers

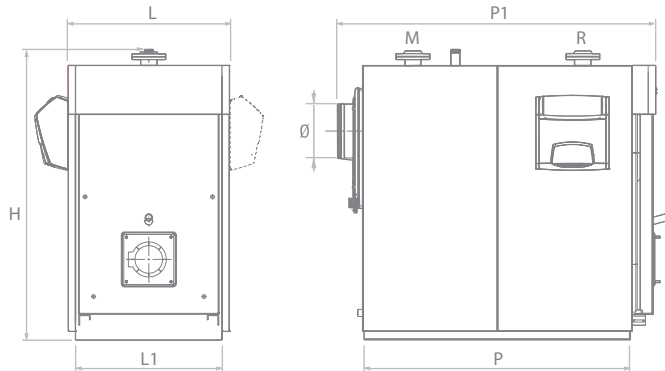
RTS 3S

Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013). Gas products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of EU Regulation N. 813/2013.



LIGHT OIL

- Oil products are in conformity with Directive 2009/125/EC
- Single-piece steel boilers with three flue gas passes
- The particular geometry of the heat exchanger allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NO_x for low polluting emissions



Description	H mm	L mm	P mm	L1 mm	P1 mm	M Ø	R Ø	Ø mm	Net weight kg
RTS 90 3S	1205	660	860	580	1155	2"	2"	180	335
RTS 115 3S	1285	710	1010	640	1330	2"	2"	200	450
RTS 166 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	515
RTS 217 3S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	535
RTS 255 3S	1524	820	1296	750	1660	2" 1/2	2" 1/2	250	715
RTS 349 3S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 448 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 511 3S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 639 3S	1820	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 3S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1160 3S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1450 3S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Its vertical design and reduced width (narrow range) allows an easy installation even in tiny plant rooms. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses. The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency (30% Pn) %	Notes	Code
RTS 90 3S	85,1	90	94,5	98,5	(1)(2)	20042418
RTS 115 3S	108,3	115	94,2	98,5	(1)(2)	20031973
RTS 166 3S	157,4	166	94,8	98,5	(1)(2)	20031974
RTS 217 3S	207,5	217	95,6	98,5	(1)(2)	20031976
RTS 255 3S	244,0	255	95,7	98,5	(1)(2)	20031977
RTS 349 3S	334,7	349	95,9	98,5	(1)(2)	20031978
RTS 448 3S	427,8	448	95,5	98,5	(3)	20031979
RTS 511 3S	488,0	511	95,5	98,5	(3)	20031980
RTS 639 3S	610,2	639	95,5	98,5	(3)	20042417
RTS 850 3S	811,8	850	95,5	98,5	(3)	20044152
RTS 1160 3S	1107,8	1160	95,5	98,5	(3)	20047381
RTS 1450 3S	1384,8	1450	95,5	98,5	(3)	20047391

Maximum operating pressure 5 bar for 90 model.

Maximum operating pressure 6 bar for the other models.

Minimum temperature of water return (to the boiler): 50 °C.

(1) Gas products only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

(2) Oil product are in conformity with ErP Directive (EU Regulation Nr. 813/2013)

(3) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031188
Burner flange	4031196
Burner flange	4031197
Burner flange	4031198
Burner flange	20043900
Burner flange	20047680

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.

Thermostatic management with RIELLOtech PRIME.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner											Burner flange	Control panels																								
		Yellow flame (Standard)					Blue flame (Low NOx)																															
		Two stage		Modulating																																		
		-		Mechanical cam			Electronic cam																															
		-		-						O ₂ control	O ₂ control +Inverter																											
		RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	RS 55/M BLU TC	RS 68/M BLU TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 55/E BLU	RS 68/E BLU	RS 120/E BLU	RS 160/E BLU	RS 120/E 02 BLU TC	RS 160/E 02 BLU TL	RS 120/EV 02 BLU TC	RS 160/EV 02 BLU TC	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit							
		3784702	3785102	3785302	3785502	20044636	3781622	3789610	3789710	3789810	20044638	20038484	3897406	3897606	3788006	20038491	3897432	3897632	3788032	20165996	20164535	20154943	20158956	4031197	20043900	20047680	4031196	20010820	4031069	4031067	20013035							
RTS 448 3S	2,9	•																																				
	2,9						•																															
	2,9											•																										
	2,9														•																							
RTS 511 3S	5,4	•																																				
	5,4						•																															
	5,4											•																										
	5,4														•																							
RTS 639 3S	5,2		•																																			
	5,2							•																														
	5,2											•																										
	5,2														•																							
RTS 850 3S	6,7			•																																		
	6,7							•																														
	6,7																																					
	6,7																																					
	6,7																																					
RTS 1160 3S	3,9			•																																		
	3,9																																					
	3,9																																					
	3,9																																					
	3,9																																					
RTS 1450 3S	4,6				•																																	
	4,6																																					
	4,6																																					
	4,6																																					
	4,6																																					

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Description	Back-pressure in combustion chamber (mbar)	Oil burner								Dual fuel burner	Burner accessory	Burner flange	Control panels																
		Yellow flame (Standard)				Blue flame (Low NOx)																							
		Two stage		Modulating		Two stage		Modulating																					
		-		Mechanical cam		-		Mechanical cam																					
		RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC					B66.1D	B67.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RWF 50.2	RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange
3474632	3475032	3475232	3475432	20166502	20166463	20166481	20166486	20015693	20015696	20027479	20027481	20027567	20169338	20169330	20147784	20147786	20147789	20082208	20099869	20043900	4031188	4031196	4031198	20010820	4031069	4031067	20013035		
RTS 90 3S	1,0							•																		•		•	
RTS 115 3S	1,4								•																	•		•	
RTS 166 3S	1,8									•															•		•		•
RTS 217 3S	2,7										•														•		•		•
RTS 255 3S	2,9											•														•		•	
RTS 349 3S	3,6																									•		•	
RTS 448 3S	2,9		•																							•		•	
	2,9					•																				•		•	
	2,9																									•		•	
	2,9																									•		•	
	2,9																									•		•	
RTS 511 3S	5,4		•																							•		•	
	5,4						•																			•		•	
	5,4																									•		•	
	5,4																									•		•	
RTS 639 3S	5,2			•																						•		•	
	5,2							•																		•		•	
	5,2																									•		•	
	5,2																									•		•	
RTS 850 3S	6,7																									•		•	
	6,7																									•		•	
	6,7																									•		•	
	6,7																									•		•	
RTS 1160 3S	3,9						•																			•		•	
	3,9																									•		•	
	3,9																									•		•	
RTS 1450 3S	4,6																									•		•	
	4,6																									•		•	
	4,6																									•		•	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS
HEAT PUMPS
WALL-HUNG BOILERS
FLOOR-STANDING BOILERS
WATER-HEATERS
SOLAR THERMAL AND CYLINDERS
CENTRALIZED HEATING
AIR CONDITIONING
TERMINAL UNITS
SYSTEM COMPLEMENTARY ITEMS
HOT AIR GENERATORS

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner flange	Control panels								
		Yellow flame (Standard)																			
		Two stage					Modulating														
		-					Mechanical cam														
		-					-														
		RS 34 MZ TC	RS 44 MZ TC	RS 50 TC	RS 70 TC	RS 100 TC	RS 130 TC	RS 150 TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 70/M TC	RS 100/M TC	RS 130/M TC	RS 150/M TC	Burner flange	Burner flange	RielloTech Prime	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit
RTS 166 3S	1,8	●																●	●		
	1,8								●										●	●	●
RTS 217 3S	2,7	●																●	●	●	
	2,7								●										●	●	●
RTS 255 3S	2,9	●																●	●	●	
	2,9								●										●	●	●
RTS 349 3S	3,6		●															●	●	●	
	3,6									●									●	●	●
RTS 448 3S	2,9			●														●	●	●	
	2,9										●								●	●	●
RTS 511 3S	5,4			●														●	●	●	
	5,4										●								●	●	●
RTS 639 3S	5,2				●													●	●	●	
	5,2											●							●	●	●
RTS 850 3S	6,7					●											●	●	●	●	
	6,7											●							●	●	●
RTS 1160 3S	3,9						●									●		●	●	●	
	3,9												●		●				●	●	●
RTS 1450 3S	4,6							●										●	●	●	
	4,6													●					●	●	●

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Description	Back-pressure in combustion chamber (mbar)	Gas burner																Burner flange	Control panels																					
		Blue flame (Low NOx)																																						
		Monostadio		Bistadio		Modulating																																		
		-	-	Mechanical cam				Electronic cam				O ₂ control	O ₂ control +Inverter																											
		3761316	3761716	3762350	3910510	3910610	20038484	3897406	3897606	3788006	3910710	3910810	3897332	20038491	3897432	3897632	3788032					20165996	20164535	20154943	20158956	20043900	20047680	4031196	4031198	4031197	20010820	4031069	4031067	20010305						
RTS 90 3S	1,0	•																																						
	1,0		•																									•												
	1,0			•																									•											
RTS 115 3S	1,4	•																										•												
	1,4		•																									•												
	1,4			•																								•												
RTS 166 3S	1,8	•																										•												
	1,8		•																									•												
	1,8			•																								•												
RTS 217 3S	2,7				•																							•												
	2,7								•																		•													
RTS 255 3S	2,9				•																							•												
	2,9									•																		•												
RTS 349 3S	3,6					•																						•												
	3,6									•																		•												
RTS 448 3S	2,9							•																				•												
	2,9									•																		•												
RTS 511 3S	5,4										•																	•												
	5,4											•																•												
RTS 639 3S	5,2																											•												
	6,7																											•												
RTS 850 3S	6,7																											•												
	6,7																											•												
	6,7																											•												
	6,7																											•												
RTS 1160 3S	3,9																											•												
	3,9																											•												
	3,9																											•												
	3,9																											•												
RTS 1450 3S	4,6																											•												
	4,6																											•												
	4,6																											•												
	4,6																											•												

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.



Description	Back-pressure in combustion chamber (mbar)	Oil burner																Burner accessory	Burner flange	Control panels														
		Yellow flame (Standard)								Blue flame (Low NOx)																								
		Two stage				Modulating				Two stage				Modulating																				
		-				Mechanical cam				-				Mechanical cam																				
		RG3D	RG4D	RL 50 TC	RL 70 TC	RL 100 TC	RL 130 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50/M TC	RL 70/M TC	RL 100/M TC	RL 130/M TC	RL 28/M TC	RL 38/M TC	BG6.1D	BG7.1D	RL 22 BLU	RL 32 BLU	RL 42 BLU	RL 55/M BLU	RL 85/M BLU	RWF 50.2	RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Rielotech Prime	Rielotech Clima Comfort	Two stage burner management kit	3-point modulation kit		
RTS 90 3S	1,0	●																												●	●			
	1,0															●															●	●		
RTS 115 3S	1,4	●																													●	●		
	1,4															●															●	●		
RTS 166 3S	1,8		●																												●	●		
	1,8																	●													●	●		
RTS 217 3S	2,7							●											●												●	●		●
	2,7														●																●	●		●
	2,7																	●													●	●		●
RTS 255 3S	2,9																														●	●		●
	2,9																														●	●		●
	2,9																				●										●	●		●
RTS 349 3S	3,6								●																						●	●		●
	3,6																											●			●	●		●
	3,6																					●									●	●		●
RTS 448 3S	2,9			●																											●	●		●
	2,9										●																				●	●		●
	2,9																														●	●		●
	2,9																														●	●		●
	2,9																								●						●	●		●
RTS 511 3S	5,4			●																											●	●		●
	5,4										●																				●	●		●
	5,4																											●			●	●		●
RTS 639 3S	5,2				●																										●	●		●
	5,2										●																				●	●		●
	5,2																														●	●		●
	5,2																												●		●	●		●
RTS 850 3S	6,7					●																									●	●		●
	6,7											●																			●	●		●
	6,7																														●	●		●
	6,7																														●	●		●
RTS 1160 3S	3,9						●																				●				●	●		●
	3,9											●																			●	●		●
	3,9																											●			●	●		●
RTS 1450 3S	4,6						●																				●				●	●		●
	4,6																											●			●	●		●

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

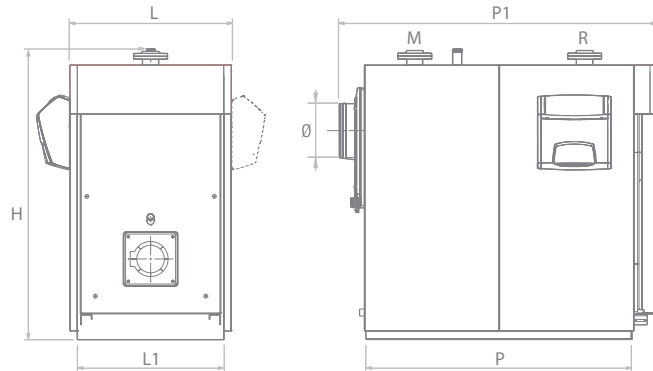
Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner						Burner accessory		Burner flange					Control panels						
		Yellow flame (Standard)			Blue flame (Low NOx)																
		Two stage			Modulating																
		-			Mechanical cam																
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 68/M MX TC	RLS 120/M MX TC	RLS 160/M MX TC	RLS 190/M MZ	RWF 50.2	RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Clima Comfort	Two stage burner management kit	3-point modulation kit
RTS 166 3S	1,8	●																●	●	●	
RTS 217 3S	2,7	●																●	●	●	
RTS 255 3S	2,9	●																●	●	●	
RTS 349 3S	3,6		●															●	●	●	
RTS 448 3S	2,9			●														●	●	●	
	2,9						●			●								●	●	●	
RTS 511 3S	5,4				●						●							●	●	●	
	5,4						●			●								●	●	●	
RTS 639 3S	5,2				●						●							●	●	●	
	5,2						●			●								●	●	●	
RTS 850 3S	6,7					●					●							●	●	●	
	6,7							●		●								●	●	●	
RTS 1160 3S	3,9								●	●			●					●	●	●	
	3,9							●		●			●					●	●	●	
RTS 1450 3S	4,6							●	●	●			●					●	●	●	
	4,6							●		●			●					●	●	●	

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Three flue gas passes steel jet burner boilers

RTS 2S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.



- Single-piece steel boilers with three flue gas passes, that can be matched with jet burners
- The particular geometry of the heat exchange allows to reduce the permanence time of flue gases in the high temperature zones while decreasing in this way the formation of NO_x for low polluting emissions

Description	H mm	L mm	P mm	L1 mm	P1 mm	M DN	R DN	Ø DN	Net weight kg
RTS 115 2S	1205	660	860	580	1155	2"	2"	180	335
RTS 150 2S	1285	710	1010	640	1330	2"	2"	200	450
RTS 200 2S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	515
RTS 247 2S	1390	760	1180	690	1500	2" 1/2	2" 1/2	250	535
RTS 319 2S	1524	820	1296	750	1660	2" 1/2	2" 1/2	250	715
RTS 410 2S	1490	820	1596	750	1960	DN80	DN80	250	840
RTS 526 2S	1685	890	1692	790	2085	DN80	DN80	300	1160
RTS 736 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 850 2S	1830	1000	1965	900	2375	DN100	DN100	350	1500
RTS 1012 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1200 2S	1920	1047	2236	980	2657	DN125	DN125	350	2075
RTS 1355 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1500 2S	2080	1147	2533	1070	2954	DN125	DN125	400	2575
RTS 1850 2S	2222	1237	2754	1160	3173	DN150	DN150	450	3390

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and three passes flue path. The flue pipes are equipped with removable stainless steel turbulators, which allow to optimize the efficiency of the heat exchange without increasing head losses.

The door features an ambidextrous opening and is provided with a peephole with pressure intake. Casing is made of stove-enamelled sheet. Shell and flue gas zone are easy to reach for maintenance. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 50 °C)
- Several solutions thanks to the combination with RIELLOtech control panels
- Maximum operating pressure: 6 bar.

TECHNICAL DATA

Description	Output kW		Efficiency		Back-pressure in combustion chamber mbar	Notes	Code
	Useful max 80°/60° ^m	Furnace heat output	Pn max (80°/60°) %	Reduced load 30% of Pn (30 °C)			
RTS 115 2S	125	115	92,2	97,2	1,2		20150418
RTS 150 2S	163	150	92,2	97,2	1,6		20150304
RTS 200 2S	216	200	92,7	97,2	1,8		20150305
RTS 247 2S	264	247	93,5	97,2	3		20150410
RTS 319 2S	341	319	93,5	97,2	2,4		20150412
RTS 410 2S	439	410	93,5	97,2	3,7		20150416
RTS 526 2S	563	526	93,5	97,2	2,2		20150417
RTS 736 2S	787	736	93,5	97,2	4,8		20150419
RTS 850 2S	909	850	93,5	97,2	6,8	(1)	20150434
RTS 1012 2S	1082	1012	93,5	97,2	6,1	(1)	20150420
RTS 1200 2S	1283	1200	93,5	97,2	9,8	(1)	20150435
RTS 1355 2S	1449	1355	93,5	97,2	5,1	(1)	20150432
RTS 1500 2S	1609	1500	93,2	97,2	7	(1)	20150437
RTS 1850 2S	1980	1850	93,5	97,2	7,2	(1)	20150433

Maximum operating pressure: 6 bar.

(1) For orders please contact Sales Department.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031188
Burner flange	4031196
Burner flange	4031395
Burner flange	20043900
Burner flange	20047680
Burner flange	20065920
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198
Burner flange	20043899
Burner flange	20184817

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.

Thermostatic management with RIELLOtech Prime.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner						Burner flange	Control panels																													
		Yellow flame (Standard)			Blue flame (Low NOx)																																	
		One stage	Two stage	Modulating																																		
		-	-	Mechanical cam		Electronic cam																																
		RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 44/M MZ TC	RS 50/M MZ TC	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit							
RTS 410 2S	3,70	●																																				
	3,70				●																																	
	3,70										●																											
	3,70																●																					
	3,70																				●																	
RTS 526 2S	2,20					●																																
	2,20											●																										
	2,20																●																					
	2,20																				●																	
RTS 739 2S	4,80		●																																			
	4,80						●																															
	4,80												●																									
	4,80																																					
RTS 850 2S	6,80		●																																			
	6,80						●																															
	6,80																																					
	6,80																																					
RTS 1012 2S	6,10		●																																			
	6,10							●																														
	6,10																																					
	6,10																																					
RTS 1200 2S	9,80			●																																		
	9,80							●																														
	9,80																																					
	9,80																																					
RTS 1355 2S	5,10				●																																	
	5,10								●																													
	5,10																																					
	5,10																																					
RTS 1500 2S	7,00				●																																	
	7,00								●																													
	7,00																																					
	7,00																																					
RTS 1850 2S	7,20				●																																	
	7,20									●																												
	7,20																																					

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Oil burner				Dual Fuel burner				Burner accessory	Burner flange				Control panels				
		Yellow flame (Standard)		Blue flame (Low NOx)		Yellow flame (Standard)		Blue flame (Low NOx)			RWF 50.2	Burner flange	Burner flange	Burner flange	Burner flange	Riellotherm Prime	Riellotherm Clima Comfort	Two stage burner management kit	3-point modulation kit
		Two stage	Modulating	Two stage	Modulating	Two stage	Modulating	Two stage	Modulating										
		-	Mechanical cam	-	Mechanical cam	-	Mechanical cam	-	Mechanical cam										
RTS 410 25	3,70	3474632	RL 50 TC																
	3,70	3475232	RL 100 TC																
	3,70	3475432	RL 130 TC																
	3,70	3475613	RL 190 TC																
	3,70	20166497	RL 38/M TC																
RTS 526 25	2,20																		
	2,20																		
	2,20																		
	2,20																		
	2,20																		
RTS 739 25	4,80																		
	4,80																		
	4,80																		
	4,80																		
	4,80																		
RTS 850 25	6,80																		
	6,80																		
	6,80																		
	6,80																		
	6,80																		
RTS 1012 25	6,10																		
	6,10																		
	6,10																		
	6,10																		
	6,10																		
RTS 1200 25	9,80																		
	9,80																		
	9,80																		
	9,80																		
	9,80																		
RTS 1355 25	5,10																		
	5,10																		
	5,10																		
	5,10																		
	5,10																		
RTS 1500 25	7,00																		
	7,00																		
	7,00																		
	7,00																		
	7,00																		
RTS 1850 25	7,20																		
	7,20																		
	7,20																		
	7,20																		
	7,20																		

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner						Burner flange						Control panels													
		Yellow flame (Standard)																									
		One stage		Two stage		Modulating																					
		-		-		Mechanical cam																					
		RS 34/1 MZ TC	RS 44/1 MZ TC	RS 100 TC	RS 130 TC	RS 190 TC	RS 44 MZ TC	RS 50 TC	RS5D	RS 100/M TC	RS 130/M TC	RS 190/M TC	RS 34/M MZ TC	RS 44/M MZ TC	RS 50/M MZ TC	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riello Prime	Riello Klima Comfort	Two stage burner management kit	3-point modulation kit	
RTS 247 2S	3,00	●																									
	3,00							●																			
	3,00												●														
RTS 319 2S	2,40	●																									
	2,40							●																			
	2,40												●														
RTS 410 2S	3,70		●																								
	3,70							●																			
	3,70													●													
RTS 526 2S	2,20							●																			
	2,20													●													
	4,80			●																							
RTS 739 2S	4,80									●																	
	4,80										●																
	6,80			●																							
RTS 850 2S	6,80									●																	
	6,80										●																
	6,10			●																							
RTS 1012 2S	6,10										●																
	9,80				●																						
	9,80											●															
RTS 1200 2S	5,10					●																					
	5,10											●															
	7,00					●																					
RTS 1355 2S	7,00																										
	7,00																										
	7,20					●																					
RTS 1500 2S	7,20																										
	7,20																										
	7,20																										

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner flange							Control panels																			
		Blue flame (Low NOx)																																				
		One stage	Two stage	Modulating																																		
		-	-	Mechanical cam					Electronic cam																													
		BS3	BS4	BS3D	BS4D	BS3/M	BS4/M	RS 120/M BLU TC	RS 160/M BLU TC	RS 200/M BLU TC	RS 25/M BLU TC	RS 35/M BLU TC	RS 45/M BLU TC	RS 68/M BLU TC	RS 120/E BLU	RS 160/E BLU	RS 200/E BLU	RS 25/E BLU	RS 35/E BLU	RS 45/E BLU	RS 68/E BLU	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Clima Comfort	Two stage burner management kit	3-point modulation kit				
RTS 115 2S	1,20	●																																				
	1,20			●																																		
	1,20					●																																
RTS 150 2S	1,60	●																																				
	1,60			●																																		
	1,60					●																																
RTS 200 2S	1,80		●																																			
	1,80				●																																	
	1,80									●																												
	1,80																																					
RTS 247 2S	3,00										●																											
	3,00																																					
RTS 319 2S	2,40											●																										
	2,40																																					
RTS 410 2S	3,70											●																										
	3,70																																					
RTS 526 2S	2,20												●																									
	2,20																																					
RTS 739 2S	4,80																																					
	4,80																																					
RTS 850 2S	6,80																																					
	6,80																																					
RTS 1012 2S	6,10																																					
	6,10																																					
RTS 1200 2S	9,80																																					
	9,80																																					
RTS 1355 2S	5,10																																					
	5,10																																					
RTS 1500 2S	7,00																																					
	7,00																																					
RTS 1850 2S	7,20																																					
	7,20																																					

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS
 HEAT PUMPS
 WALL-HUNG BOILERS
 FLOOR-STANDING BOILERS
 WATER-HEATERS
 SOLAR THERMAL AND CYLINDERS
 CENTRALIZED HEATING
 AIR CONDITIONING
 TERMINAL UNITS
 SYSTEM COMPLEMENTARY ITEMS
 HOT AIR GENERATORS

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner								Burner flange						Control panels										
		Yellow flame (Standard)				Blue flame (Low NOx)																				
		Two stage		Modulating		Two stage		Modulating																		
		-		Mechanical cam		-		Mechanical cam																		
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 190/M MZ	RLS 250/M MZ	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	Two stage burner management kit	
RTS 150 2S	1,60	●																							●	●
	1,60								●																●	●
RTS 200 2S	1,80	●																							●	●
	1,80								●																●	●
RTS 247 2S	3,00	●																							●	●
	3,00								●																●	●
RTS 319 2S	2,40		●																						●	●
	2,40									●															●	●
RTS 410 2S	3,70			●																					●	●
	3,70										●														●	●
RTS 526 2S	2,20				●																				●	●
	2,20											●													●	●
RTS 739 2S	4,80				●																				●	●
	4,80											●													●	●
RTS 850 2S	6,80					●																			●	●
	6,80												●												●	●
RTS 1012 2S	6,10					●										●									●	●
	6,10												●												●	●
RTS 1200 2S	9,80						●																		●	●
	9,80													●											●	●
RTS 1355 2S	5,10						●																		●	●
	5,10													●											●	●
RTS 1500 2S	7,00						●																		●	●
	7,00													●											●	●
RTS 1850 2S	7,20							●																	●	●
	7,20													●											●	●

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

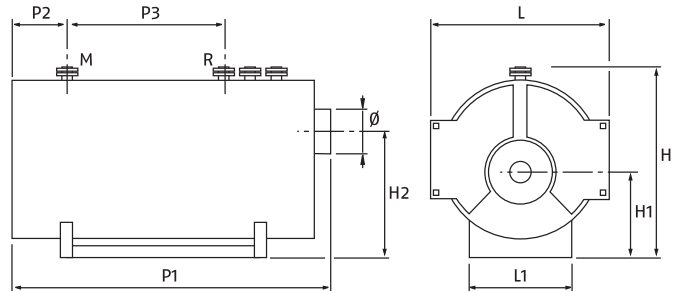
TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Three flue gas passes steel jet burner boilers

RTG



- Heating only
- Steel heating body
- Chimney with triple fume path

Description	L mm	H mm	P1 mm	L1 mm	H1 mm	H2 mm	P2 mm	P3 mm	Ø mm	Net weight kg	
										5 bar	8bar
RTG 1000	1580	1930	3240	1100	790	1250	640	1300	400	3320	3720
RTG 1200	1580	1930	3490	1100	790	1250	640	1550	400	3550	3990
RTG 1500	1800	2200	3650	1250	915	1450	720	1400	450	4700	5220
RTG 1800	1800	2200	3900	1250	915	1450	720	1650	450	4950	5500
RTG 2100	1930	2330	4510	1250	960	1530	830	1970	500	5700	6450
RTG 2600	2050	2450	4510	1310	995	1650	830	1970	500	7110	8120
RTG 3000	2050	2460	4960	1310	995	1650	830	2420	500	7650	8750
RTG 3500	2260	2660	5100	1500	1070	1780	860	2450	600	9250	10400
RTG 4000	2260	2660	5550	1500	1070	1780	860	2800	600	10050	11350
RTG 4300	2260	2660	5550	1500	1070	1780	860	2800	600	10200	11500
RTG 5000	2500	2950	6070	1620	1225	1955	922	3000	700	13300	14950
RTG 6000	2500	2950	6570	1620	1225	1955	922	3450	700	14200	5950
RTG 7500	2750	3200	7020	1800	1305	2110	1022	3600	800	19200	19950
RTG 9000	2910	3360	7320	1900	1355	2210	1022	3900	900	23000	23500

Monobloc steel boilers with possibility of using gas or oil burners. They are equipped with pressurized furnace with three actual fume paths, passing flame and horizontal development mounted on steel base. The exterior of the body is equipped with hydraulic connections, rings for lifting rods, handrails and manhole (models from 5000 to 9000).

The particular geometry of the heat exchanger allows reducing the presence of fumes in the high temperature zones, thus reducing the formation of NOx. Front access is ensured by two doors insulated with refractory materials and a containment braid. The fume box is equipped with condensate drain and doors for easy cleaning and maintenance.

The body is thermally insulated with high density stone wool and protected by an aluminium sheet.

These boilers are available in 14 models with useful output from 1,165 to 10,560 kW.

The optional control panel must be ordered separately.

- High point yields and intermediate seasons
- Reduced polluting emissions
- Robust construction
- Can be combined with Riello monobloc burners
- Easy to transport (lifting rings)
- Easy maintenance: front access to the combustion chamber, fume tubes, fume chamber and inside the body
- Easy to assemble: easy coupling and standardised connections
- Installation flexibility: a number of installation solutions is possible by combining Riello burners.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency (30% Pn) %	Code
RTG 1000	1165	1260	92,5	93,0	4031883
RTG 1200	1410	1522	92,7	93,2	4031885
RTG 1500	1760	1902	92,6	93,1	4031401
RTG 1800	2040	2210	92,3	92,9	4031887
RTG 2100	2510	2710	92,6	93,4	4031403
RTG 2600	3020	3260	92,7	93,1	4031405
RTG 3000	3520	3810	92,4	92,8	4031407
RTG 3500	4090	4420	92,5	93,2	4031409
RTG 4000	4680	5050	92,7	93,3	4031411
RTG 4300	5030	5450	92,3	92,8	4031889
RTG 5000	5830	6310	92,4	93,0	4031413
RTG 6000	7020	7590	92,5	93,1	4031415
RTG 7500	8760	9460	92,6	93,2	4031417
RTG 9000	10560	11400	92,6	93,2	4031419

The product codes above refer to 5-bar models. Maximum operating pressure 5 bar (8 bar on request).

CONTROL PANELS

Description	Installation	Code	Boiler model
RIELLOtech CLIMA COMFORT	Vertical	4031069	All models
RIELLOtech PRIME	Vertical	20010820	All models
RIELLOtech PRIME ACS	Vertical	20010437	All models

Climate management with RIELLOtech Clima Comfort.
Thermostatic management with RIELLOtech PRIME.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner																Control panels																		
		Yellow flame (Standard)								Blue flame (Low NOx)																										
		Modulating																																		
		Two stage	Mechanical cam								Electronic cam																									
		-	RS 130 TC	RS 190 TC	RS 190/M TC	RS 250/M MZ TC	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	RS 1000/M C01	RS 1200/M C01	RS 160/M BLU TC	RS 200/M BLU TC	RS 310/M BLU FS1	RS 410/M BLU FS1	RS 510/M BLU FS1	RS 610/M BLU FS1	RS 810/M BLU FS1	RS 1000/M BLU	RS 1200/M BLU	RS 160/E BLU	RS 200/E BLU	RS 310/E BLU FS1	RS 410/E BLU FS1	RS 510/E BLU FS1	RS 610/E BLU FS1	RS 810/E BLU FS1	RS 1000/E BLU	RielloTech Prime	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit			
RTG 1000	4,5	●																																		
	4,5									●																										
	4,5																			●																
RTG 1200	6,6		●																																	
	6,6			●																																
	6,6				●																															
	6,6					●															●															
RTG 1500	5,3		●																																	
	5,3			●																																
	5,3				●						●																									
	5,3					●																	●													
RTG 1800	5,6		●																																	
	5,6			●																																
	5,6				●																															
	5,6					●																														
RTG 2100	5,6				●																															
	5,6					●																														
	5,6						●																													
RTG 2600	5,5					●																														
	5,5						●																													
	5,5							●																												
RTG 3000	7,7						●																													
	7,7							●																												
	7,7								●																											
RTG 3500	5,4						●																													
	5,4							●																												
	5,4								●																											
RTG 4000	7,0							●																												
	7,0								●																											
	7,0									●																										
RTG 4300	8,2								●																											
	8,2									●																										
	8,2										●																									
RTG 5000	5,6								●																											
	5,6										●																									
	5,6											●																								
RTG 6000	8,4										●																									
	8,4											●																								
	8,4												●																							
RTG 7500	8,1										●																									
	8,1												●																							

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

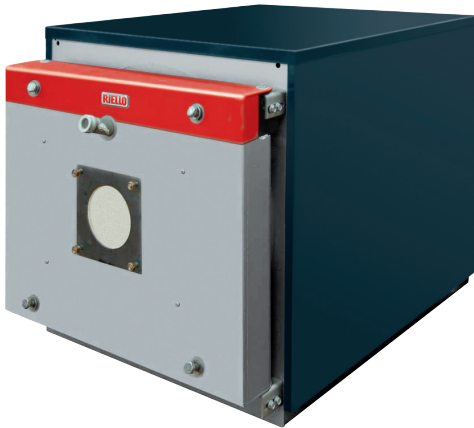
Description	Back-pressure in combustion chamber (mbar)	Oil burner			Dual fuel burner								Control panels								
		Yellow flame (Standard)																			
		Two stage		Modulating	Two stage	Modulating															
		-		Mechanical cam	-	Mechanical cam															
		RL 130 TC	RL 190 TC	RL 250 MZ TC	RL 130/M TC	RL 190/M TC	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 160/M MX TC	RLS 310/M MX	RLS 440/M MX	RLS 510/M MX	RLS 610/M MX	RLS 800/M MX	RLS 1000/M C13	RLS 1200/M C13	RielloTech Klima Comfort	RielloTech Prime	Two stage burner management kit	3-point modulation kit
RTG 1000	4,5	●																●			
	4,5				●														●		●
	4,5					●												●		●	
	4,5								●									●		●	
RTG 1200	6,6	●																●		●	
	6,6				●														●		●
	6,6							●										●		●	
	6,6								●									●		●	
RTG 1500	5,3		●															●		●	
	5,3					●												●		●	
	5,3							●										●		●	
	5,3								●									●		●	
RTG 1800	5,6		●															●		●	
	5,6					●												●		●	
	5,6							●										●		●	
	5,6								●									●		●	
RTG 2100	5,6			●														●		●	
	5,6								●									●		●	
RTG 2600	5,5									●								●		●	
RTG 3000	7,7											●						●		●	
RTG 3500	5,4												●					●		●	
RTG 4000	7,0													●				●		●	
RTG 4300	8,2														●			●		●	
RTG 5000	5,6														●			●		●	
RTG 6000	8,4															●		●		●	
RTG 7500	8,1																●	●		●	
RTG 9000	8,7																	●		●	

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

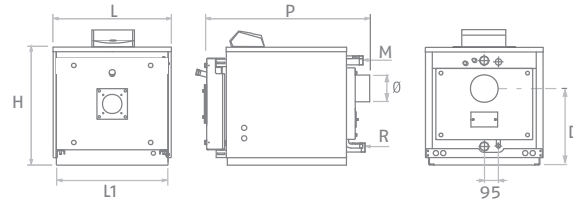
Two flue gas passes steel jet burner boilers

RTQ 3S

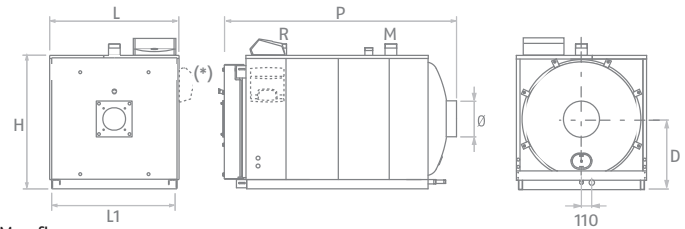
Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

- Single-piece steel boilers
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range)

RTQ 3S 35-166



RTQ 3S 217-4000



(*) From RTQ 1100 3S to RTQ 4000 3S model

M = flow
R = return

Description	H mm	L mm	P mm	L1 mm	D mm	M Ø	R Ø	Ø mm	Net weight kg
RTQ 35 3S	605	605	880	560	310	1" 1/4	1" 1/4	139	137
RTQ 55 3S	605	605	1030	560	310	1" 1/4	1" 1/4	139	160
RTQ 70 3S	740	705	970	660	384	1" 1/2	1" 1/2	179	199
RTQ 91 3S	740	705	1120	660	384	1" 1/2	1" 1/2	179	225
RTQ 115 3S	905	805	1230	753	500	G2"	G2"	180	283
RTQ 166 3S	955	853	1405	803	525	G2"	G2"	180	355
RTQ 217 3S	1060	925	1580	875	525	G2" 1/2	G2" 1/2	200	455
RTQ 255 3S	1060	925	1580	875	525	G2" 1/2	G2" 1/2	200	473
RTQ 318 3S	1110	975	1810	925	550	G2" 1/2	G2" 1/2	250	610
RTQ 349 3S	1110	975	1810	925	550	G2" 1/2	G2" 1/2	250	610
RTQ 448 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 511 3S	1275	1150	2140	1100	655	DN80	DN80	300	970
RTQ 575 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 639 3S	1385	1220	2410	1170	690	DN100	DN100	300	1189
RTQ 766 3S	1440	1285	2550	1235	715	DN100	DN100	350	1406
RTQ 896 3S	1530	1360	2865	1310	755	DN125	DN125	400	1817
RTQ 1100 3S	1630	1450	3130	1400	820	DN125	DN125	400	2280
RTQ 1300 3S	1725	1535	3155	1485	865	DN125	DN125	450	2780
RTQ 1600 3S	1822	1610	3235	1555	900	DN150	DN150	500	3160
RTQ 2100 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4170
RTQ 2400 3S	1972	1715	3515	1660	1000	DN175	DN175	500	4180
RTQ 2700 3S	2090	1865	3560	1895	1050	DN175	DN175	500	4826
RTQ 3000 3S	2162	1935	3670	1885	1080	DN175	DN175	500	5346
RTQ 3500 3S	2240	2040	4010	1990	1155	DN200	DN200	550	6195
RTQ 4000 3S	2270	2070	4260	2020	1170	DN200	DN200	600	6790

Provided with high-performance stainless steel turbulators ensuring wide exchange surface, in order to optimize the heat exchange and allow a homogeneous thermal load. The front door features an ambidextrous opening and is provided with a highly-insulating mineral-wool double seal. Casing is made of stove-enamelled sheet. The control panel should be ordered separately.

- High efficiency both punctual and seasonal
- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control panels.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency P _n (80°-60 °C)	Efficiency 30% P _n (80°-60 °C)	Notes	Code
RTQ 35 3S	33,8	34,8	94,2	95,9	(1)	20025617
RTQ 55 3S	53,2	55,0	93,8	95,5	(1)	20025618
RTQ 70 3S	67,8	69,0	94,2	95,9	(1)	20025619
RTQ 91 3S	87,1	90,0	94,2	95,9	(1)(2)	20024200
RTQ 115 3S	109,7	115,0	95,8	95,1	(1)(2)	4032606.0
RTQ 166 3S	158,7	166,0	95,6	95,6	(1)(2)	4032607.0
RTQ 217 3S	206,8	217,0	95,3	96,3	(1)(2)	4032608.0
RTQ 255 3S	243,3	255,0	95,8	96,5	(1)(2)	4032609.0
RTQ 318 3S	303,4	318,0	95,6	96,5	(1)(2)	4032610.0
RTQ 349 3S	332,0	348,0	95,4	96,7	(1)(2)	4032611.0
RTQ 448 3S	427,4	448,0	95,4	96,7		4032613.0
RTQ 511 3S	487,5	511,0	95,4	96,7		4032614.0
RTQ 575 3S	548,6	575,0	95,4	96,7		4032615.0
RTQ 639 3S	609,6	639,0	95,4	96,7		4032616.0
RTQ 766 3S	730,8	766,0	95,4	96,7		4032617.0
RTQ 896 3S	854,8	896,0	95,4	96,7		20008436
RTQ 1100 3S	1049,4	1100,0	95,4	96,7		20012427
RTQ 1300 3S	1240,2	1300,0	95,4	96,7		20008435
RTQ 1600 3S	1526,4	1600,0	95,4	96,7		20016656
RTQ 2100 3S	2003,4	2100,0	95,4	96,7		20016657
RTQ 2400 3S	2289,6	2400,0	95,4	96,7		20018817
RTQ 2700 3S	2576,0	2700,0	95,4	96,7		20106515
RTQ 3000 3S	2860,0	3000,0	95,4	96,7		20106514
RTQ 3500 3S	3339,0	3500,0	95,4	96,7		20107462
RTQ 4000 3S	3816,0	4000,0	95,4	96,7		20107467

Maximum operating pressure 5 bar for RTQ 35 3S - RTQ 766 3S models.

Maximum operating pressure 6 bar for RTQ 896 3S - RTQ 4000 3S models.

(1) Gas products and oil products (models 35, 55 and 70) are only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

(2) Oil products are in conformity with ErP Directive (EU Regulation Nr. 813/2013).

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	4031198
Burner flange	4031391

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 3S 90-2400	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 3S 448-4000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner														Burner accessory	Control panels					
		Yellow flame (Standard)															Extended head	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit
		Two stage							Modulating													
		Mechanical cam																				
RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	3010443	20010820	4031069	4031064	4031067	20013035			
RTQ 448 3S	3,5	●																				
	3,5						●															
RTQ 511 3S	4,2		●																			
	4,2						●															
RTQ 575 3S	3,4			●																		
	3,4							●														
RTQ 639 3S	4,5			●																		
	4,5							●														
RTQ 766 3S	5,3				●																	
	5,3								●													
RTQ 896 3S	6,0				●																	
	6,0								●													
RTQ 1100 3S	3,3					●																
	3,3									●												
RTQ 1300 3S	5,3					●																
	5,3									●												
RTQ 1600 3S	4,7						●															
	4,7										●											
RTQ 2100 3S	5,1										●											
RTQ 2400 3S	7,6											●										
RTQ 2700 3S	8,0												●									
RTQ 3000 3S	6,5												●									
RTQ 3500 3S	7,1													●								
RTQ 4000 3S	8,0														●							

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Description	Back-pressure in combustion chamber (mbar)	Oil burner					Dual fuel burner					Burner accessory	Burner flange			Control panels																										
		Yellow flame (Standard)											Blue flame (Low NOx)	Extended head	Burner flange	Burner flange	Burner flange	Riellotech Prime	Riellotech Clima Comfort	Riellotech Clima Comfort	Two stage burner management kit	3-point modulation kit																				
		Two stage		Modulating			Two stage		Modulating				20097869																													
		-		Mechanical cam			-		Mechanical cam																																	
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL												RL 190/M TL	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX										
3474633	3475033	3475233	3475433	3475613	3470010	20166504	20166476	20166484	20166487	20169231	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812																							
RTQ 448 3S	3,5	●																																								
	3,5						●																																			
	3,5											●																														
RTQ 511 3S	4,2	●																																								
	4,2						●																																			
	4,2												●																													
RTQ 575 3S	3,4	●																																								
	3,4							●																																		
	3,4												●																													
RTQ 639 3S	4,5		●																																							
	4,5							●																																		
	4,5												●																													
RTQ 766 3S	5,3			●																																						
	5,3								●																																	
	5,3												●																													
RTQ 896 3S	6,0			●																																						
	6,0								●																																	
	6,0												●																													
RTQ 1100 3S	3,3				●																																					
	3,3								●																																	
	3,3												●																													
RTQ 1300 3S	5,3				●																																					
	5,3													●																												
	5,3														●																											
RTQ 1600 3S	4,7					●																																				
	4,7														●																											
	4,7															●																										
RTQ 2100 3S	5,1					●																																				
	5,1															●																										
	5,1																●																									
RTQ 2400 3S	7,6																																									
	7,6																●																									
	7,6																	●																								
RTQ 2700 3S	8,0																																									
	8,0																	●																								
	8,0																		●																							
RTQ 3000 3S	6,5																																									
	6,5																																									
	6,5																																									
RTQ 3500 3S	7,1																																									
	7,1																																									
	7,1																																									
RTQ 4000 3S	8,0																																									
	8,0																																									
	8,0																																									

NOTE: the light oil burners must be completed with the light oil nozzles.
NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner					Burner accessory	Burner accessory	Control panels																											
		Yellow flame (Standard)				Blue flame (Low NOx)			Extended head	Extended head	Extended head	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit																				
		Two stage		Modulating		One stage											Two stage																			
		-				-																														
Mechanical cam					-																															
		RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 190 TC	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 130/M TL	RS 190/M TC	RS 250/M MZ TL	RS 310/M MZ F51	RS 410/M MZ F51	BS1	BS2	BS3	BS1D	BS2D	BS3D	3010443	3001007	3001009	20010820	4031069	4031064	4031067	20013035				
RTQ 35 3S	0,4	3789011																																		
	0,4	3789111																																		
RTQ 55 3S	0,9	3784703																																		
	0,9	3785103																																		
RTQ 70 3S	0,6	3785303																																		
	0,6	3785503																																		
RTQ 91 3S	2,0	3785813																																		
	2,0	3788711																																		
RTQ 115 3S	1,5	3788811																																		
	1,5	3781623																																		
RTQ 166 3S	1,3	3789611																																		
	1,3	3789711																																		
RTQ 217 3S	2,2	3789811																																		
	2,2	378623																																		
RTQ 255 3S	2,8	3788411																																		
	2,8	20068343																																		
RTQ 318 3S	3,2	20068356																																		
	3,2	3761158																																		
RTQ 349 3S	3,9	3761258																																		
	3,9	3761316																																		
RTQ 448 3S	3,5	3761558																																		
	3,5	3761658																																		
RTQ 511 3S	4,2	3761716																																		
	4,2	3010443																																		
RTQ 575 3S	3,4																																			
	3,4																																			
RTQ 639 3S	4,5																																			
	4,5																																			
RTQ 766 3S	5,3																																			
	5,3																																			
RTQ 896 3S	6,0																																			
	6,0																																			
RTQ 1100 3S	3,3																																			
	3,3																																			
RTQ 1300 3S	5,3																																			
	5,3																																			
RTQ 1600 3S	4,7																																			
	4,7																																			
RTQ 2100 3S	5,1																																			
RTQ 2400 3S	7,6																																			
RTQ 2700 3S	8,0																																			
RTQ 3000 3S	6,5																																			
RTQ 3500 3S	7,1																																			
RTQ 4000 3S	8,0																																			

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Oil burner															Burner accessory						Burner flange			Control panels													
		Yellow flame (Standard)																																					
		One stage					Two stage										Modulating																						
		-	-														Mechanical cam																						
RG1NR	RG2	RG3	RG5S	RL 34/1 MZ TL	RG2KD	RG3D	RG4D	RG5D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 150 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Extended head	Extended head	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit		
RTQ 35 3S	0,4	•																																					
RTQ 55 3S	0,9		•																						•								•						
RTQ 70 3S	0,9				•																														•				
RTQ 91 3S	0,6					•																														•			
RTQ 91 3S	2			•																						•										•			
RTQ 91 3S	2							•																		•										•			
RTQ 115 3S	1,5								•																												•		
RTQ 166 3S	1,3																																				•		
RTQ 166 3S	1,3				•																						•										•		
RTQ 166 3S	1,3									•																												•	
RTQ 217 3S	2,2																																					•	
RTQ 217 3S	2,2				•																						•											•	
RTQ 217 3S	2,2										•																												•
RTQ 255 3S	2,8																																					•	
RTQ 255 3S	2,8																																					•	
RTQ 255 3S	2,8									•																		•											•
RTQ 318 3S	3,2																																					•	
RTQ 318 3S	3,2																																					•	
RTQ 318 3S	3,2				•																																	•	
RTQ 349 3S	3,9											•																										•	
RTQ 349 3S	3,9																																					•	
RTQ 448 3S	3,5																																						•
RTQ 448 3S	3,5												•																										•
RTQ 511 3S	4,2																																						•
RTQ 511 3S	4,2																																					•	
RTQ 575 3S	3,4																																					•	
RTQ 575 3S	3,4																																					•	
RTQ 639 3S	4,5																																					•	
RTQ 639 3S	4,5																																					•	
RTQ 766 3S	5,3																																					•	
RTQ 766 3S	5,3																																					•	
RTQ 896 3S	6																																					•	
RTQ 896 3S	6																																					•	
RTQ 1100 3S	3,3																																					•	
RTQ 1100 3S	3,3																																					•	
RTQ 1300 3S	5,3																																					•	
RTQ 1300 3S	5,3																																					•	
RTQ 1600 3S	4,7																																					•	
RTQ 1600 3S	4,7																																					•	
RTQ 2100 3S	5,1																																				•		
RTQ 2100 3S	5,1																																				•		

NOTE: the light oil burners must be completed with the light oil nozzles.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner								Burner accessory	Burner flange	Control panels							
		Yellow flame (Standard)				Blue flame (Low NOx)													
		Two stage				Modulating													
		-				Mechanical cam													
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	RLS 310/M MX	RLS 410/M MX	RLS 510/M MX	Extended head	Extended head	Extended head	Burner flange	Burner flange	Riellotech Prime	Two stage burner management kit
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20147806	20147809	20147812	20097868	20097869	20097840	20076596	20076618	20010820	4031067
RTQ 217 3S	2,2	●													●			●	●
RTQ 255 3S	2,8	●													●			●	●
RTQ 318 3S	3,2		●										●					●	●
RTQ 349 3S	3,9		●										●					●	●
RTQ 448 3S	3,5			●										●				●	●
RTQ 511 3S	4,2				●													●	●
RTQ 575 3S	3,4				●													●	●
RTQ 639 3S	4,5				●													●	●
RTQ 766 3S	5,3				●													●	●
RTQ 896 3S	6,0					●												●	●
RTQ 1100 3S	3,3					●												●	●
RTQ 1300 3S	5,3						●											●	●
RTQ 1600 3S	4,7							●										●	●
RTQ 2100 3S	5,1								●									●	●
RTQ 2400 3S	7,6									●						●		●	●
RTQ 2700 3S	8,0									●						●		●	●
RTQ 3000 3S	6,5									●						●		●	●
RTQ 3500 3S	7,1										●						●	●	●
RTQ 4000 3S	8,0											●					●	●	●

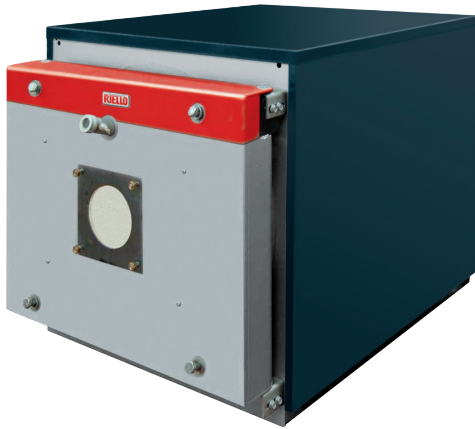
NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Two flue gas passes steel jet burner boilers

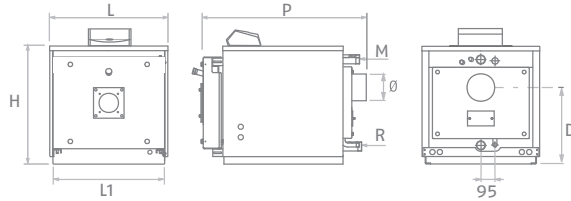
RTQ 2S

Products up to 400 kW only for replacement, till 1st January 2018, in conformity of point 2 (G) Article 1 of Regulation EU N. 813/2013.

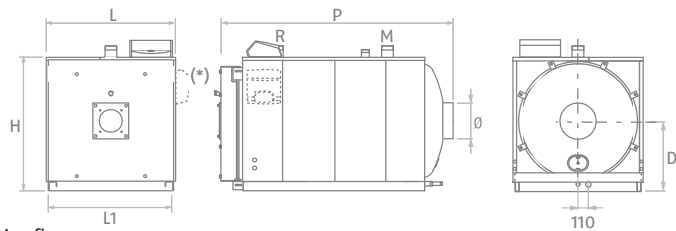


- Single-piece steel boilers, that can be matched with any fuel jet burners
- Provided with completely wet combustion chamber with free dilation and flame-inversion (square range).

RTQ 2S 50-235



RTQ 2S 297-5000



M = flow
R = return

Description	H mm	L mm	L1 mm	P mm	D mm	Ø mm	Net weight kg
RTQ 50 2S	605	605	560	885	325	139	127
RTQ 64 2S	605	605	560	1035	325	139	160
RTQ 82 2S	740	705	660	970	384	179	199
RTQ 105 2S	740	705	660	1120	384	179	225
RTQ 154 2S	790	805	753	1220	500	180	288
RTQ 203 2S	840	853	803	1400	525	180	382
RTQ 235 2S	840	853	803	1400	525	180	382
RTQ 297 2S	980	925	875	1550	525	200	458
RTQ 323 2S	980	925	875	1550	525	200	458
RTQ 357 2S	980	925	875	1550	525	200	478
RTQ 418 2S	1030	975	925	1770	550	250	630
RTQ 467 2S	1030	975	925	1770	550	250	630
RTQ 537 2S	1030	975	925	1945	550	250	731
RTQ 597 2S	1030	975	925	1945	550	250	726
RTQ 715 2S	1210	1150	1100	2115	655	300	953
RTQ 837 2S	1210	1150	1100	2210	655	300	1037
RTQ 920 2S	1280	1220	1170	2380	690	300	1237
RTQ 1020 2S	1335	1285	1235	2515	715	450	1530
RTQ 1250 2S	1430	1360	1310	2835	755	400	2257
RTQ 1500 2S	1530	1450	1400	2965	820	400	2570
RTQ 1700 2S	1610	1535	1485	3125	865	450	2841
RTQ 2020 2S	1680	1605	1555	3115	900	450	3340
RTQ 2320 2S	1750	1655	1605	3210	925	450	3725
RTQ 2620 2S	1925	1800	1750	3455	1015	450	4667
RTQ 2920 2S	1995	1865	1815	3560	1050	500	4826
RTQ 3200 2S	1996	1865	1815	3611	1050	500	4905
RTQ 3500 2S	2055	1935	1885	3670	1080	500	5346
RTQ 4000 2S	2140	2040	1990	4004	1155	550	6195
RTQ 4500 2S	2170	2070	2020	4254	1170	600	6790
RTQ 5000 2S	2355	2230	2180	4521	1250	650	7965

Pressurized steel boilers, that can be matched with any fuel jet burners. Provided with completely wet combustion chamber with free dilation and flame-inversion. Equipped with removable high-efficiency stainless steel turbulators ensuring an optimized heat exchange and a homogeneous thermal load.

The front door features an ambidextrous opening and is provided with a mineral-wool double seal. Casing is made of stove-enamelled sheet.

The control panel should be ordered separately.

- Operation at modulating temperature (minimum allowed return temperature 55 °C)
- Several solutions thanks to the combination with RIELLOtech control boards.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (80°-60 °C)	Efficiency 30% Pn (80°-60 °C)	Code
RTQ 50 2S	50	54,2	92,2	95,1	20136573
RTQ 64 2S	64	69,3	92,3	95,3	20136574
RTQ 82 2S	82	88,8	92,3	95,4	20136575
RTQ 105 2S	105	113,6	92,4	95,7	20136577
RTQ 154 2S	154	166	92,9	91,4	20136578
RTQ 203 2S	203	217	93,4	-	20136579
RTQ 235 2S	235	255	92,3	92,8	20136580
RTQ 297 2S	297	318	93,4	-	20136581
RTQ 323 2S	323	348	92,8	93,3	20136582
RTQ 357 2S	357	384	92,9	93,3	20136583
RTQ 418 2S	418	448	93,3	-	20136584
RTQ 467 2S	467	500	93,4	93,3	20136585
RTQ 537 2S	537	575	93,4	-	20136587
RTQ 597 2S	597	639	93,4	93,3	20136588
RTQ 715 2S	715	766	93,4	-	20136589
RTQ 837 2S	837	896	93,4	93,3	20136590
RTQ 920 2S	920	990	92,9	93	20136592
RTQ 1020 2S	1020	1100	92,7	92,9	20136594
RTQ 1250 2S	1250	1338	93,4	93,3	20136595
RTQ 1500 2S	1500	1606	93,4	93,3	20136598
RTQ 1700 2S	1700	1820	93,4	93,3	20136599
RTQ 2020 2S	2020	2162	93,4	93,3	20136600
RTQ 2320 2S	2320	2485	93,4	93,3	20136601
RTQ 2620 2S	2620	2830	92,5	92,8	20136602
RTQ 2920 2S	2920	3150	92,7	92,9	20136603
RTQ 3200 2S	3200	3450	92,7	92,9	20136605
RTQ 3500 2S	3500	3780	92,7	92,9	20136606
RTQ 4000 2S	4000	4315	92,7	92,9	20136607
RTQ 4500 2S	4500	4854	92,7	92,9	20136608
RTQ 5000 2S	5000	5394	92,7	92,9	20136609

Maximum operating pressure 6 bar for RTQ 2S 50 - 5000 models.

ACCESSORIES

Description	Code
MECHANICAL ACCESSORIES	
Burner flange	20043900
Burner flange	20047680
Burner flange	4031188
Burner flange	4031395
Burner flange	20076596
Burner flange	20076618
Burner flange	20067631
Burner flange	4031196
Burner flange	20043899
Burner flange	4031186
Burner flange	4031192
Burner flange	4031198

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech CLIMA COMFORT	Horizontal	RTQ 2S 50-2620	4031064
RIELLOtech CLIMA COMFORT	Vertical	RTQ 2S 715-5000	4031069
RIELLOtech PRIME	Horizontal / Vertical	All models	20010820
RIELLOtech PRIME ACS	Horizontal / Vertical	All models	20010437

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS - EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner										Burner flange			Control panels																								
		Yellow flame (Standard)																																					
		One stage	Two stage					Modulating																															
		-	-					Mechanical cam																															
		RS 44/1 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 190/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 440/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Klima Comfort	RielloTech Klima Comfort	Two stage burner management kit	3-point modulation kit								
		3788611	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	20043900	20047680	4031188	4031395	20076596	20076618	20067631	20010820	4031069	4031064	4031067	20013035							
RTQ 418 2S	2,9	●																																					
	2,9		●																					●															
	2,9								●															●															
RTQ 467 2S	3,3			●																				●															
	3,3									●														●															
RTQ 537 2S	3,0				●																		●																
	3,0										●												●																
RTQ 597 2S	5,1				●																		●																
	5,1										●												●																
RTQ 715 2S	4,7				●																		●																
	4,7											●											●																
RTQ 837 2S	8,1					●																	●																
	8,1											●											●																
RTQ 920 2S	4,6					●																	●																
	4,6						●						●										●																
RTQ 1020 2S	4,6					●																	●																
	4,6											●											●																
RTQ 1250 2S	5,8						●																●																
	5,8												●										●																
RTQ 1500 2S	5,4							●															●																
	5,4												●										●																
RTQ 1700 2S	7,2								●														●																
	7,2													●									●																
RTQ 2020 2S	4,8								●															●															
	4,8														●									●															
RTQ 2320 2S	4,2															●								●															
RTQ 2620 2S	6,0																●							●															
RTQ 2920 2S	6,3																	●						●															
RTQ 3200 2S	7,9																							●															
RTQ 3500 2S	7,9																							●															
RTQ 4000 2S	7,7																							●															
RTQ 4500 2S	8,0																								●														
RTQ 5000 2S	7,9																							●															

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Oil burner						Dual fuel burner				Burner accessory	Burner flange				Control panels																									
		Yellow flame (Standard)																																								
		Two stage			Modulating			Two stage		Modulating																																
		-			Mechanical cam			-		Mechanical cam																																
		RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	20067631	Rielotech Prime	Rielotech Clima Comfort	Rielotech Clima Comfort	Two stage burner management kit	3-point modulation kit							
		3474633	3475033	3475233	3475433	20011008	3470010	20166499	20166504	20166476	20166484	20166487	20169231	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	3010422	20043900	20047680	4031188	4031196	4031395	20076596	20067631	201010820	4031069	4031064	4031067	20013035							
RTQ 418 2S	2,9	•																																								
	2,9						•																																			
	2,9														•																											
RTQ 467 2S	3,3	•																																								
	3,3							•																																		
	3,3														•																											
RTQ 537 2S	3	•																																								
	3								•																																	
	3															•																										
RTQ 597 2S	5,1		•																																							
	5,1									•																																
	5,1															•																										
RTQ 715 2S	4,7		•																																							
	4,7										•																															
	4,7															•																										
RTQ 837 2S	8,1			•																																						
	8,1										•																															
	8,1																																									
RTQ 920 2S	4,6			•																																						
	4,6											•																														
	4,6																																									
RTQ 1020 2S	4,6			•																																						
	4,6																																									
	4,6																																									
RTQ 1250 2S	5,8				•																																					
	5,8																																									
	5,8																																									
RTQ 1500 2S	5,4					•																																				
	5,4											•																														
	5,4																																									
RTQ 1700 2S	7,2																																									
	7,2																																									
	7,2																																									
RTQ 2020 2S	4,8																																									
	4,8																																									
	4,8																																									
RTQ 2320 2S	4,2																																									
	4,2																																									
RTQ 2620 2S	6,0																																									

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS – EXTRA EU COUNTRIES

Description	Back-pressure in combustion chamber (mbar)	Gas burner					Burner flange						Control panels								
		Yellow flame (Standard)				Blue flame (Low NOx)	One stage	Two stage	Burner flange	Burner flange	Burner flange	Burner flange			Burner flange	Burner flange					
		One stage	Two stage		Modulating								One stage	Two stage							
					Mechanical cam		-	-													
		RS 34/I MZ TL																			
		RS 44/I MZ TL																			
		RS 34 MZ TL																			
		RS 44 MZ TL																			
		RS 50 TL																			
		RS 70 TL																			
		RS 100 TL																			
		RS 130 TL																			
		RS 150 TL																			
		RS 190 TL																			
		20044637																			
		20030087																			
		3788711																			
		3788811																			
		3781623																			
		3789611																			
		3789711																			
		20044639																			
		20052616																			
		3788411																			
		20068343																			
		20068356																			
		20068027																			
		20066706																			
		3761258																			
		3761316																			
		3761658																			
		3761716																			
		20043899																			
		20043900																			
		20047680																			
		4031186																			
		4031188																			
		4031192																			
		4031198																			
		4031395																			
		20076596																			
		20076618																			
		20067631																			
		20010820																			
		4031069																			
		4031064																			
		4031067																			
		20013035																			
RTQ 50 25	0,3																				
	0,3																				
RTQ 64 25	0,8																				
	0,8																				
RTQ 82 25	0,8																				
	0,8																				
RTQ 105 25	1,4																				
	1,4																				
RTQ 154 25	1,6																				
	1,6																				
RTQ 203 25	1,8																				
	1,8																				
	1,8																				
RTQ 235 25	2,7																				
	2,7																				
	2,7																				
RTQ 297 25	3,5																				
	3,5																				
	3,5																				
RTQ 323 25	3,9																				
	3,9																				
	3,9																				
RTQ 357 25	4,1																				
	4,1																				
	4,1																				
RTQ 418 25	2,9																				
	2,9																				
	2,9																				
RTQ 467 25	3,3																				
	3,3																				
RTQ 537 25	3,0																				
	3,0																				
RTQ 597 25	5,1																				
	5,1																				
RTQ 715 25	4,7																				
	4,7																				
RTQ 837 25	8,1																				
	8,1																				
RTQ 920 25	4,6																				
	4,6																				
RTQ 1020 25	4,6																				
	4,6																				
RTQ 1250 25	5,8																				
	5,8																				

NOTE: the gas burners must be completed with the gas train.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Gas burner							Burner flange					Control panels																																															
		Yellow flame (Standard)						Blue flame (Low NOx)																																																					
		One stage	Two stage		Modulating			One stage								Two stage																																													
		-	-		Mechanical cam			-	-																																																				
		RS 34/1 MZ TL	RS 44/1 MZ TL	RS 34 MZ TL	RS 44 MZ TL	RS 50 TL	RS 70 TL	RS 100 TL	RS 130 TL	RS 150 TL	RS 190 TL	RS 34/M MZ TL	RS 44/M MZ TL	RS 50/M MZ TL	RS 70/M TL	RS 100/M TL	RS 150/M TL	RS 250/M MZ TL	RS 310/M MZ FS1	RS 410/M MZ FS1	RS 510/M MZ FS1	RS 610/M MZ FS1	BS2	BS3	BS2D	BS3D	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	RielloTech Clima Comfort	RielloTech Clima Comfort	Two stage burner management kit	3--point modulation kit																						
		3788511	3788611	3789011	3789111	3784703	3785103	3785303	3785503	20044637	20030087	3788711	3788811	3781623	3789611	3789711	20044639	20052616	3788411	20068343	20068356	20068027	20066706	3761258	3761316	3761658	3761716	20043899	20043900	20047680	4031186	4031188	4031192	4031198	4031395	20076596	20076618	20076631	20010820	4031069	4031064	4031067	20013035																		
RTQ 1500 2S	5,4									●																																																			
	5,4																																																												
RTQ 1700 2S	7,2										●																																																		
	7,2																																																												
RTQ 2020 2S	4,8										●																																																		
	4,8																																																												
RTQ 2320 2S	4,2																																																												
RTQ 2620 2S	6,0																																																												
RTQ 2920 2S	6,3																																																												
RTQ 3200 2S	7,9																																																												
RTQ 3500 2S	7,9																																																												
RTQ 4000 2S	7,7																																																												
RTQ 4500 2S	8,0																																																												
RTQ 5000 2S	7,9																																																												

NOTE: the gas burners must be completed with the gas train.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.



Description	Back-pressure in combustion chamber (mbar)	Oil burner															Burner accessory	Burner flange							Control panels																	
		Yellow flame (Standard)																																								
		One stage		Two stage								Modulating																														
		-										Mechanical cam																														
		RG2	RG3	RG4S	RL 34/1 MZ TL	RG3D	RG4D	RL 34 MZ TL	RL 44 MZ TL	RL 50 TL	RL 70 TL	RL 100 TL	RL 130 TL	RL 190 TC	RL 250 MZ TC	RL 28/M TL	RL 38/M TL	RL 50/M TL	RL 70/M TL	RL 100/M TL	RL 130/M TL	RL 190/M TL	Extended head	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Riello Prime	Riellother Klima Comfort	Riellother Klima Comfort	Two stage burner management kit	3-point modulation kit			
		3737750	3739300	3739650	3470111	3739450	3739750	3470211	3470311	3474633	3475033	3475233	3475433	20011008	3470010	20166495	20166499	20166504	20166476	20166484	20166487	20169231	3000964	3000965	3010422	20043900	20047680	4031186	4031188	4031192	4031196	4031198	4031395	20076596	20067631	20010820	4031069	4031064	4031067	20013035		
RTQ 50 2S	0,3	•																						•													•					
RTQ 64 2S	0,8	•																																								
RTQ 82 2S	0,8		•																					•																		
RTQ 82 2S	0,8					•																		•																	•	
RTQ 105 2S	1,4		•																																						•	
RTQ 105 2S	1,4						•																	•																	•	
RTQ 154 2S	1,6			•																										•												•
RTQ 154 2S	1,6							•																						•											•	
RTQ 203 2S	1,8				•																																				•	
RTQ 203 2S	1,8								•																																•	
RTQ 203 2S	1,8																•																								•	
RTQ 235 2S	2,7				•																																				•	
RTQ 235 2S	2,7								•																																•	
RTQ 235 2S	2,7																																								•	
RTQ 297 2S	3,5				•																																				•	
RTQ 297 2S	3,5								•																																•	
RTQ 323 2S	3,9									•																															•	
RTQ 323 2S	3,9																																								•	
RTQ 357 2S	4,1										•																														•	
RTQ 357 2S	4,1																																								•	
RTQ 418 2S	2,9											•																														•
RTQ 418 2S	2,9																																								•	
RTQ 467 2S	3,3											•																													•	
RTQ 467 2S	3,3																																								•	
RTQ 537 2S	3,0																																								•	
RTQ 537 2S	3,0																																								•	
RTQ 597 2S	5,1												•																												•	
RTQ 597 2S	5,1																																								•	
RTQ 715 2S	4,7																																								•	
RTQ 715 2S	4,7																																								•	
RTQ 837 2S	8,1																																								•	
RTQ 837 2S	8,1																																								•	
RTQ 920 2S	4,6																																								•	
RTQ 920 2S	4,6																																								•	
RTQ 1020 2S	4,6																																								•	
RTQ 1020 2S	4,6																																								•	
RTQ 1250 2S	5,8																																								•	
RTQ 1250 2S	5,8																																								•	
RTQ 1500 2S	5,4																																								•	
RTQ 1500 2S	5,4																																								•	
RTQ 1700 2S	7,2																																								•	
RTQ 1700 2S	7,2																																								•	
RTQ 2020 2S	4,8																																								•	
RTQ 2020 2S	4,8																																								•	
RTQ 2320 2S	4,2																																								•	
RTQ 2620 2S	6,0																																								•	

NOTE: the light oil burners must be completed with the light oil nozzles.

NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

Description	Back-pressure in combustion chamber (mbar)	Dual fuel burner						Burner accessory	Burner flange						Control panels						
		Yellow flame (Standard)																			
		Two stage			Modulating																
		-			Mechanical cam																
		RLS 28	RLS 38	RLS 50	RLS 70	RLS 100	RLS 130	RLS 190/M MZ	RLS 250/M MZ	Extended head	Extended head	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	Burner flange	RielloTech Prime	Two stage burner management kit	
		20147897	20147803	20147805	20147798	20147799	20147800	20159361	20145372	20097868	20097869	20043900	20047680	4031188	4031192	4031196	4031198	4031395	20067631	20010820	4031067
RTQ 203 2S	1,8	●																		●	●
RTQ 235 2S	2,7	●																		●	●
RTQ 297 2S	3,5		●												●					●	●
RTQ 323 2S	3,9		●												●					●	●
RTQ 357 2S	4,1		●															●		●	●
RTQ 418 2S	2,9		●							●									●	●	●
RTQ 467 2S	3,3			●							●								●	●	●
RTQ 537 2S	3,0				●										●					●	●
RTQ 597 2S	5,1				●										●					●	●
RTQ 715 2S	4,7				●										●					●	●
RTQ 837 2S	8,1					●														●	●
RTQ 920 2S	4,6					●														●	●
RTQ 1020 2S	4,6					●						●								●	●
RTQ 1250 2S	5,8						●					●								●	●
RTQ 1500 2S	5,4							●					●							●	●
RTQ 1700 2S	7,2							●					●							●	●
RTQ 2020 2S	4,8								●											●	●

NOTE: the light oil burners must be completed with the light oil nozzles.
 NOTE: for specific accessories, connection MODBUS and more details on control panels, please refer to page 325.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

CAST IRON JET BURNER BOILERS GAS/OIL



THREE FLUE GAS PASSES

THREE FLUE GAS PASSES



TREGI N

- TREGI 3N (23,9 kW)
- TREGI 4N (31,5 kW)
- TREGI 5N (40,2 kW)
- TREGI 6N (48,2 kW)
- TREGI 7N (56,2 kW)
- TREGI 8N (63,8 kW)
- TREGI 9N (72,5 kW)
- TREGI 10N (83,5 kW)

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TREGI NK

- TREGI 3/60 NK (23,9 kW)
- TREGI 4/60 NK (31,5 kW)
- TREGI 3/100 NK (23,9 kW)
- TREGI 4/100 NK (31,5 kW)
- TREGI 5/100 NK (40,2 kW)

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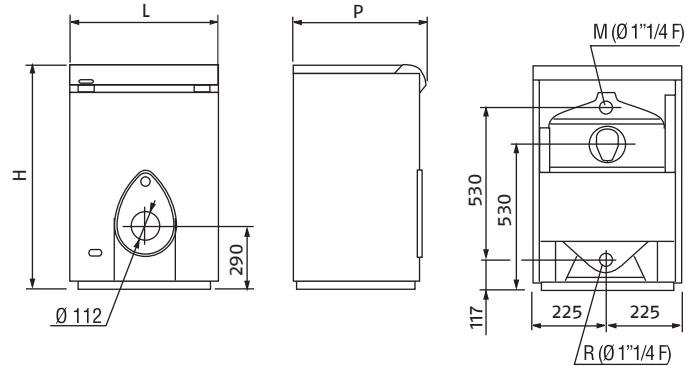
RTT

- | | |
|--------------------|--------------------|
| RTT 29 (29,1 kW) | RTT 291 (291,0 kW) |
| RTT 39 (39,0 kW) | RTT 323 (323,0 kW) |
| RTT 49 (48,8 kW) | RTT 355 (355,0 kW) |
| RTT 59 (58,7 kW) | RTT 378 (378,0 kW) |
| RTT 69 (68,6 kW) | RTT 448 (448v kW) |
| RTT 79 (78,5 kW) | RTT 506 (506v kW) |
| RTT 76 (76,0 kW) | RTT 564 (564v kW) |
| RTT 93 (93,0 kW) | RTT 610 (610,0 kW) |
| RTT 110 (110,0 kW) | RTT 663 (663,0 kW) |
| RTT 128 (128,0 kW) | RTT 715 (715,0 kW) |
| RTT 145 (145,0 kW) | RTT 773 (773,0 kW) |
| RTT 163 (163v kW) | RTT 831 (831,0 kW) |
| RTT 195 (195,0 kW) | RTT 878 (878,0 kW) |
| RTT 227 (227,0 kW) | RTT 930 (930,0 kW) |
| RTT 259 (259,0 kW) | |

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Three flue gas passes cast iron jet burner boilers

Tregi N



- Cast-iron boilers with three flue gas passes, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	Ø mm	Net weight kg
TREGI 3 N	850	450	490	130	109
TREGI 4 N	850	450	590	130	135
TREGI 5 N	850	450	690	130	161
TREGI 6 N	850	450	790	130	187
TREGI 7 N	850	450	890	130	213
TREGI 8 N	850	450	990	130	239
TREGI 9 N	965	450	995	180	267
TREGI 10 N	965	450	1095	180	297

The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer. The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Possible combination with a separated DHW tank
- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn %	Efficiency (30% Pn) %	Code
TREGI 3 N	23,9	26,5	90,2	90,9	4040719
TREGI 4 N	31,5	34,8	90,5	91,3	4040720
TREGI 5 N	40,2	44,3	90,7	91,6	4040721
TREGI 6 N	48,2	53,1	90,8	92,0	4040722
TREGI 7 N	56,2	62,0	90,6	91,8	4040723
TREGI 8 N	63,8	70,0	91,1	92,0	4040724
TREGI 9 N	72,5	80,0	90,63	90,3	4040725
TREGI 10 N	83,5	92,0	90,76	90,5	4040726

ACCESSORIES

Description	Code
Global shut-off kit	4047318

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner		Oil burner			
		Blue flame (Low NOx)		Yellow flame (Standard)			
		One stage					Two stage
		BS2	BS1	RG2	RG0.R	RG1NR	RG2KD
		3761258	3761158	3737750	3736550	3736405	3738100
TREGÌ 3 N	0,1		●				
	0,1				●		
TREGÌ 4 N	0,17		●				
	0,17					●	
TREGÌ 5 N	0,26		●				
	0,26					●	
TREGÌ 6 N	0,36	●					
	0,36			●			
TREGÌ 7 N	0,42	●					
	0,42			●			
TREGÌ 8 N	0,6	●					
	0,6						●

NOTE: the gas burners must be completed with the gas train.
 NOTE: the light oil burners must be completed with the light oil nozzles.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

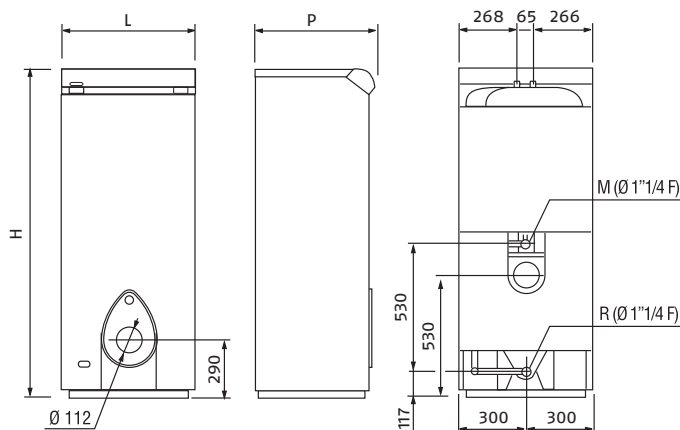
TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Three flue gas passes cast iron jet burner boilers

TREGÌ NK



- Cast-iron boilers with three flue gas passes with storage cylinder, removable turbulators, wet combustion chamber and winged pipes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	Ø mm	Net weight kg
TREGÌ 3/60 NK	1470	450	580	130	157
TREGÌ 4/60 NK	1470	450	580	130	182
TREGÌ 3/100 NK	1470	600	580	130	157
TREGÌ 4/100 NK	1470	600	580	130	182
TREGÌ 5/100 NK	1510	600	690	130	223

Enamelled storage tank, of 60 lt or 100 lt capacity, perfectly insulated with a styrofoam cover, complete with hydraulic circuit and high efficiency circulator. The front door, with ambidextrous opening, is provided with a glass wool insulation, while the boiler body is insulated through a high-density glass wool layer. The built-in control panel is equipped with safety devices and can manage an one-stage burner. Casing is made of stove-enamelled steel sheet.

- Allowed return temperature up to 35 °C for all fuels
- Easy handling: this product is supplied in one only pre-assembled item inside a wooden box on a pallet (models 3NK and 4NK) or in separated parcels (boiler and casing) on a pallet

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn (Tm = 70 °C) %	Efficiency (30% Pn) %	Tank capacity liters	Code
TREGÌ 3/60 NK	23,9	26,5	90,2	90,9	60	20101199
TREGÌ 4/60 NK	31,5	34,8	90,5	91,3	60	20101200
TREGÌ 3/100 NK	23,9	26,5	90,2	90,9	100	20101201
TREGÌ 4/100 NK	31,5	34,8	90,5	91,3	100	20101202
TREGÌ 5/100 NK	40,2	44,3	90,7	91,6	100	20101203

ACCESSORIES

Description	Code
Global shut-off kit	4047318

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Gas burner		Oil burner	
		Blue flame (Low NOx)		Yellow flame (Standard)	
		One stage			
		BSI	RG0.R	RG1R	RG1R
		3761158	3736550	3736405	
TREGì 3/60 NK	0,10	•			
	0,10		•		
TREGì 4/60 NK	0,17	•			
	0,17				•
TREGì 3/100 NK	0,10	•			
	0,10		•		
TREGì 4/100 NK	0,17	•			
	0,17				•
TREGì 5/100 NK	0,26	•			
	0,26				•

NOTE: the gas burners must be completed with the gas train.
 NOTE: the light oil burners must be completed with the light oil nozzles.

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

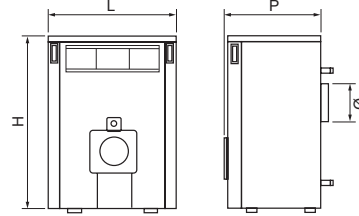
HOT AIR GENERATORS

Three flue gas passes cast iron jet burner boilers

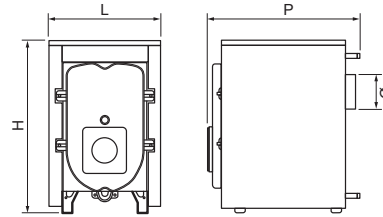
RTT



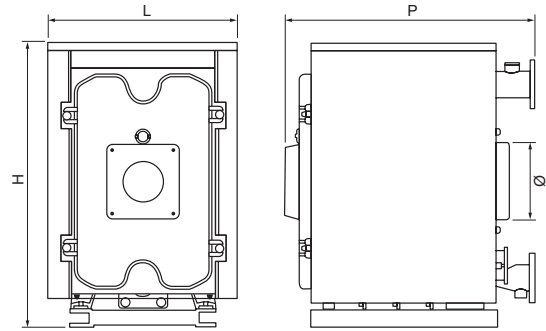
RTT 29÷79



RTT 76÷355



RTT 378÷930



- Cast-iron boilers with three flue gas passes
- They can be matched with oil or gas jet burner

Description	H mm	L mm	P mm	Ø mm	Net weight kg
RTT 29	840	540	455	130	148
RTT 39	840	640	555	130	175
RTT 49	840	740	655	150	202
RTT 59	840	840	755	150	229
RTT 69	840	940	855	150	256
RTT 79	840	1010	955	150	283
RTT 76	820	550	800	150	285
RTT 93	820	550	922	150	330
RTT 110	820	550	1044	180	377
RTT 128	820	550	1166	180	425
RTT 145	820	550	1288	180	470
RTT 163	820	550	1170	180	485
RTT 195	820	550	1315	180	565
RTT 227	820	550	1460	250	650
RTT 259	820	550	1605	250	735
RTT 291	820	550	1750	250	810
RTT 323	820	550	1890	250	895
RTT 355	820	550	2035	250	975

Description	H mm	L mm	P mm	Ø mm	Net weight kg
RTT 378	1355	840	1300	350	1020
RTT 448	1355	840	1460	350	1235
RTT 506	1355	840	1620	350	1415
RTT 564	1355	840	1780	350	1555
RTT 610	1355	840	1940	350	1725
RTT 663	1355	840	2100	350	1875
RTT 715	1355	840	2260	350	1975
RTT 773	1355	840	2420	350	2170
RTT 831	1355	840	2580	350	2375
RTT 878	1355	840	2740	350	2465
RTT 930	1355	840	2900	350	2540

The RTT boilers are forced-draught heat generators. They are formed of cast iron elements and work with gas or liquid fuel. The vertical structure with three flue passes ensures excellent heat transmission. The heat transmission surfaces are increased thanks to a special finning in the combustion chamber and in the discharge pipe to the flue. The optimum heat exchange and insulation quality mean reduced fuel consumption and heat losses. The RTT models 29÷79 kW, are supplied with an integrated control panel. The RTT models 76÷145 kW, are supplied pre-assembled, with the cover already fitted. The range from 169 to 355 is supplied with the cover in a separate package. The RTT models 378÷930 kW are supplied separately, to facilitate movement and transport.

The models from 76 up to 930 kW must be completed with the RIELLOtech Prime control panel, that should be ordered separately; it permits to achieve several solutions.
 - Maximum operating pressure 6 bar.

TECHNICAL DATA

Description	Output kW	Input kW	Efficiency Pn %	Code
RTT 29	29,1	31,6	92,1	20091169
RTT 39	39,0	42,3	92,2	20091170
RTT 49	48,8	53,6	91,0	20091171
RTT 59	58,7	63,8	92,0	20091172
RTT 69	68,6	74,5	92,1	20091173
RTT 79	78,5	85,3	92,0	20091175
RTT 76	76,0	82,0	92,6	20091179
RTT 93	93,0	101,0	92,1	20091181
RTT 110	110,0	120,0	91,6	20091187
RTT 128	128,0	138,0	92,7	20091189
RTT 145	145,0	157,0	92,3	20091193
RTT 163	163,0	177,0	92,0	20091302
RTT 195	195,0	211,0	92,4	20091303
RTT 227	227,0	246,0	92,3	20091304
RTT 259	259,0	281,0	92,1	20091305
RTT 291	291,0	316,0	92,1	20091306
RTT 323	323,0	351,0	92,0	20091308
RTT 355	355,0	385,0	92,2	20091309
RTT 378	378,0	410,0	92,2	20093090
RTT 448	448,0	487,0	92,0	20091316
RTT 506	506,0	551,0	91,8	20091318
RTT 564	564,0	615,0	91,7	20091321
RTT 610	610,0	665,0	91,7	20091325
RTT 663	663,0	720,0	92,1	20091326
RTT 715	715,0	777,0	92,0	20091329
RTT 773	773,0	839,0	92,1	20091334
RTT 831	831,0	900,0	92,3	20091335
RTT 878	878,0	956,0	91,8	20091337
RTT 930	930,0	1013,0	91,8	20091339

Maximum operating pressure 6 bar.

CONTROL PANELS

Description	Installation	Boiler models	Code
RIELLOtech PRIME	Horizontal/Vertical	RTT 76÷355 - RTT 378 ÷ 930	20010820
RIELLOtech PRIME ACS	Horizontal/Vertical	RTT 76÷355 - RTT 378 ÷ 930	20010437

NOTE: for more details on control panels, please refer to page 325.

RECOMMENDED COMBINATIONS WITH BURNERS

Description	Back-pressure in combustion chamber (mbar)	Oil burner										Control panels		
		Yellow flame (Standard)										RielloTech Prime 20010820	Two stage burner management kit 4031067	
		One stage					Two stage							
		RG1R	RG2	RG3	RG3D	RG4D	RG5D	RL 100 TC	RL 34 MZ TC	RL 44 MZ TC	RL 50 TC	RL 70 TC		
RTT 29	0,46	●												
RTT 39	0,59		●											
RTT 49	0,89		●											
RTT 69	1,37		●	●										
RTT 79	1,56			●										
RTT 76	1,65			●									●	
RTT 93	1,82				●								●	●
RTT 110	2,05				●								●	●
RTT 128	2,3					●							●	●
RTT 145	2,55						●						●	●
RTT 163	1,6						●						●	●
RTT 195	1,7						●						●	●
RTT 227	1,9								●				●	●
RTT 259	2,2								●				●	●
RTT 291	2,5								●				●	●
RTT 323	2,8									●			●	●
RTT 355	3,1									●			●	●
RTT 378	2,2									●			●	●
RTT 448	2,4										●		●	●
RTT 506	2,75										●		●	●
RTT 564	3,1											●	●	●
RTT 610	3,35											●	●	●
RTT 663	3,7											●	●	●
RTT 715	4,05											●	●	●
RTT 773	4,35							●					●	●
RTT 831	4,75							●					●	●
RTT 878	4,95							●					●	●
RTT 930	5,5							●					●	●

NOTE: the light oil burners must be completed with the light oil nozzles.

CONTROL PANELS AND THERMOREGULATIONS



APPLICATION	ELECTRONIC		THERMOSTATIC	
	CLIMA COMFORT	CLIMA MIX	PRIME	PRIME ACS
HORIZONTAL	•		•	•
VERTICAL	•	•		
FOR ELECTRICAL CABINET	•	•		
BURNER	Modulating*		One stage/two stage (with kit code 4031067)	One stage/two stage (with kit code 4031067)
CASCADE APPLICATION	• Immersion or clip probe			
SOLAR SYSTEM	• Probes 2 x 20010103 1 x 4031913			
DHW TANK	○ Probe 1 x 20010103			• Probe included
DIRECT ZONE	•		•	•
1 st MIXED ZONE	• Immersion or clip probe	• Immersion or clip probe		
	Optional: indoor probe or remote control RC3			
2 nd MIXED ZONE	• With kit 20102310, immersion or clip probe	• With kit 20011194, immersion or clip probe		
	Optional: indoor probe or remote control RC3			
ALTERNATIVE SOURCE GENERATOR	• For biomass: immersion probe			

* For modulating burner matched with cabinet installation control panel, add kit code 20013035.

USE OF RIELLOTECH REGULATION SYSTEMS

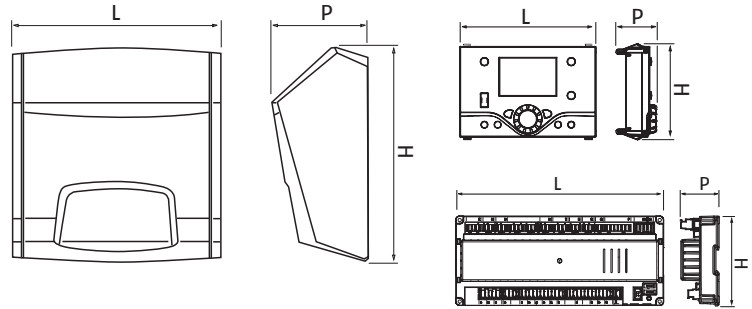
RIELLOTECH regulation systems are specifically designed for the following ranges: TAU N, RTS 3S, RTQ and RTQ 3S. Besides they allow the addition of more functions concerning the thermoregulations integrated in the model TAU UNIT OIL.

The complete compositions and the communication kits are to be checked on the specific accessories tables in the sections concerning boilers and thermal groups.

Control panels and thermoregulations

RIELLOtech Clima Comfort

RIELLOtech Clima Mix



- RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech CLIMA COMFORT/MIX	360	350	165	3
CLIMA COMFORT	360	350	165	3
CLIMA MIX	120	180	50	1
CLIMA DISPLAY	95	140	50	1

RIELLOtech is an electronic control panel for the climatic management of a furnace with single-stage, two-stage or modulating burner. Ideal for complex systems as well as for the management of simpler installations. The range includes:

RIELLOtech Climate Comfort: it is the climatic regulation of even complex systems in single- or multi-family installations. It manages modulating burners, cascades of boilers, solar systems and the integration of several types of heat generators. The system side manages a mixed area (expandable to 2 with a special dedicated kit), one direct and the production of domestic hot water. Clima Comfort also offers the possibility to control modulating circulators (0-10V and PWM) with the specific expansion.

RIELLOtech Clima Mix: this is the system regulation that can manage 1 mixed area expandable to 2 with a special kit. The RIELLOtech Clima Comfort versions include a boiler probe and an external probe.

All RIELLOtech Clima regulations can be integrated via BUS.

RIELLOtech features IP X4D protection level.

- It is possible to personalise the control panel through programmable inputs and outputs (e.g. 0/10V input, generator anti-condensation pump)
- Frost protection, anti-blocking pump function and anti-legionnaires' disease protection
- Energy saving thanks to the system thermoregulation according to the external weather conditions
- Easy to program thanks to a user-friendly menu and a large display
- Quick to install: terminals and connectors, identifiable through silk-screen prints, are included in the supply
- Great flexibility of installation: they can be horizontally or vertically installed on the boilers or wall-mounted by means of a specific kit
- A specific version as main control panel for boiler-room is also available (in combination with Clima Display).

TECHNICAL DATA

Description	Functional description	Installation type	Notes	Code
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Horizontal	(1)	4031064
RIELLOtech CLIMA COMFORT	Control panel with climatic regulation	Vertical	(1)	4031069
RIELLOtech CLIMA MIX	Electrical panel with zone regulator	Vertical		20010428
CLIMA DISPLAY	User interface for adjustments CLIMA COMFORT			20010906
CLIMA MIX	Zone regulator			20010904
CLIMA COMFORT	Climatic regulation			20010903







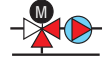
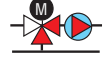
(1) Supplied as standard 1 immersion probe and 1 external sensor.

Deductible products only within a system refurbishment and building energy redevelopment. Therefore, please always check the specific procedures for accessing the incentive.

ACCESSORIES

Description	Code
Programmable expansion kit (CLIMA COMFORT)	20102310
Programmable expansion kit (CLIMA MIX)	20011194
Relay kit for modulating burner (CLIMA COMFORT)	20013035
RIELLOtech wall-hung installation kit (to be used only for vertical installation)	20010056
RC3 remote control kit	20155028
MODBUS connection kit	20185704
Indoor probe	20012456
NTC immersion probe (10kΩ) - 5 metres	20010068
NTC DHW-tank probe (10kΩ) - 5 metres	20010103
Solar collector probe NTC (10 k ohm)	4031913
NTC O-ring probe (10kΩ)	20168680
NTC external probe (10 k ohm)	20164230

APPLICATION CHART

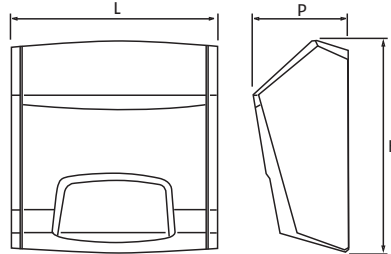
Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLOtech CLIMA COMFORT *								With specific additional mixed zone control kit
RIELLOtech CLIMA MIX								With additional mixed zone control kit
Compulsory accessories		1 NTC clip probe		2 NTC DHW-tank probes and 1 NTC immersion probe solar collector	1 NTC DHW-tank probe		1 NTC clip probe or 1 NTC immersion probe	1 NTC clip probe or 1 NTC immersion probe
Optional accessories			1 NTC immersion probe (only for biomass boiler)				1 indoor probe or RC3 remote control	1 indoor probe or RC3 remote control

* For modulating burner adjustment, order the relay kit accessory.

Control panels and thermoregulations

RIELLOtech Prime

RIELLOtech Prime ACS



- RIELLOtech is Riello range of control systems designed to control any kind of installations

Description	H mm	L mm	P mm	Net weight kg
RIELLOtech Prime	360	350	165	3
RIELLOtech Prime ACS	360	350	165	3

RIELLOtech Prime is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit) and one direct zone. RIELLOtech Prime ACS is the thermostatic product line for the control of 1-stage and 2-stage burners (by means of a specific kit), the production of DHW and one direct zone. IPX4D electrical protection.

- Easy to use and install
- Safety thermostat with manual-reset
- Over-temperature disposal function
- Adjustable anti-condensation function on heating and DHW production
- These control panels feature a wide internal space and allow maximum ease of connections
- These control panels are available as horizontal version; for the vertical installation you just have to rotate the front panel by 180°.

TECHNICAL DATA

Description	Type	Code
RIELLOtech Prime	Thermostatic control panel heating-only single stage (1) - horizontal installation (2)	20010820
RIELLOtech Prime ACS	Thermostatic control panel heating and DHW production single stage (1) - horizontal installation (2)	20010437






(1) Two stage burner controlled by kit code 4031067.

(2) For vertical installation turn the frontal panel by 180°.

ACCESSORIES

Description	Code
Two stage burner management kit (to install in RielloTech Prime and RielloTech Prime ACS)	4031067
RIELLOtech wall-hung installation kit (to be used only for vertical installation models)	20010056

APPLICATION CHART

Description	Burner	Boiler in cascade	Biomass boiler	Solar system	DHW storage cylinder	Direct zone	1 st mixed zone	2 nd mixed zone
RIELLOtech PRIME	 Two-stage with special kit							
RIELLOtech PRIME ACS	 Two-stage with special kit							
Compulsory accessories					1 storage tank probe NTC			

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

FLUE OPTIONS SYSTEM



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING




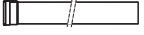
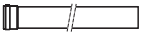

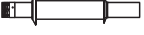













AIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø80 mm

Drawing	Description	Material (*)	Condexa Pro 35-70P		Notes	Code
			•	•		
	45° bend Ø80 mm	PP	•	•	(2)	20137503
	90° bend Ø80 mm	PP	•	•	(2)	20137506
	Extension Ø80 mm, L=500	PP	•	•	(2)	20137508
	Extension Ø80 mm L=1000	PP	•	•	(2)	20137509
	Extension Ø80 mm L=2000	PP	•	•	(2)	20137511
	Flexible extension 12.5 m with 8 spacers Ø80 mm	PP	•	•	(2)	20132509
	Horizontal terminal Ø80 mm	PP	•	•	(2)	20137517
	Air suction terminal Ø80 mm	PP	•	•	(2)	20137515
	T-junction kit Ø80 mm with support bracket	PP	•	•	(2)	20132504
	Pipe spacers in the flue gases pipe	PP	•	•		20132505
	Straight inspection manifold Ø80 mm	PP	•	•	(2)	20132506
	Flue cover Ø80 mm	PP	•	•	(2)	20132508
	Flue cover Ø80 for rigid/flexible system	PP	•	•	(2)	20131271
	Flue support shelf kit	Met	•	•		20145888
	Rigid-flexible fitting Ø80 mm	PP	•	•	(2)	20132510
	Flexible-flexible fitting Ø80 mm	PP	•	•	(2)	20132511
	Flexible-rigid-fitting Ø80 mm	PP	•	•	(2)	20132512
	Drain pipe kit	PP	•	•		20132518
	Ø80 mm T-junction kit	PP	•	•	(2)	20132513
	Ø80 mm T-junction closure kit for condensate drain	Met	•	•	(2)	20132514

(*) PP material: colour may change over time because of sun's rays exposure



(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

**Ø60/100 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM
(TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)**

Drawing	Description	Material (*)	Notes	Code
	Double adaptor Ø80/80 mm - concentric Ø60/100 mm	PP/Met	• (2)(3)	20137535
	Wall collector Ø60/100 mm	PP/PPu	• (2)(3)	20132018

(*) PP material: colour may change over time because of sun's rays exposure

(2) H1 pressure level according to EN 1443







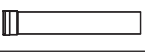
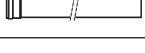
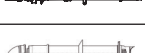
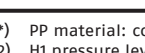
(3) Check the maximum equivalent lengths by consulting the technical data sheet and / or by contacting the pre-sales service.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

Ø80/125 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 35-70P		Notes	Code
			•	•		
	Universal tile for sloping roofs	Nylon	•	•		20132050
	Element kit Ø80/125 mm connection to flue	PP	•	•	(2)	20132520
	45° bend Ø80/125 mm	PP/ABS	•	•	(2)	20131054
	90° bend Ø80/125 mm	PP/ABS	•	•	(2)	20131083
	90° bend with inspection Ø80/125 mm	PP/ABS	•	•	(2)	20131095
	Double adaptor Ø80/80 mm - concentric Ø80/125 mm	PP/ABS	•	•	(2)	20131055
	Extension Ø80/125 mm, L=500 mm	PP/ABS	•	•	(2)	20131084
	Extension Ø80/125 mm, L=1000 mm	PP/ABS	•	•	(2)	20131085
	Vertical terminal Ø80/125 mm	PP/ABS	•	•	(2)	20131113
	Wall discharge terminal Ø80/125 mm	PP/ABS	•	•	(2)	20131098




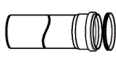




(*) PP material: colour may change over time because of sun's rays exposure

(2) H1 pressure level according to EN 1443

NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

SINGLE FLUE GAS EXHAUST SYSTEM OR DOUBLE SUCTION/DISCHARGE Ø110 mm

Drawing	Description	Material (*)	Condexa Pro 90-135		Notes	Code
			Condexa Pro 90-135	TAU UNIT 100-140		
	45° bend Ø110 mm	PP	•	•	(2)	20131205
	90° bend Ø110 mm with inspection	PP	•	•	(2)	20131202
	90° bend Ø110 mm	PP	•	•	(2)	20131208
	Extension Ø110 mm, L=1000 mm	PP	•	•	(2)	20131210
	Ø110 T-junction kit with condensate drain	PP	•	•	(2)	20131218
	Ø110 mm T-junction kit with stack support condensate drain	PP	•	•	(2)	20131221
	Ø110 mm T-junction kit	PP	•	•	(2)	20131222
	Flue cover Ø110 mm with terminal	PP	•	•	(2)	20131225

(*) PP material: colour may change over time because of sun's rays exposure





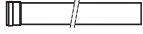






(2) H1 pressure level according to EN 1443

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)

NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

Ø110/160 mm CONCENTRIC FLUE GAS EXHAUST SUCTION/DISCHARGE SYSTEM (TYPE C GAS-TIGHT COMBUSTION KIT REQUIRED)

Drawing	Description	Material (*)	Condexa Pro 90-135 TAU UNIT 100-140		Notes	Code
	Tile Ø160 mm 25-45% slope	-	•	•		20131145
	Adaptor Ø80/Ø110 mm	PP		•	(2)	20131238
	Extension Ø110 mm, L=145 mm	PP		•	(2)	20144853
	Extension Ø110/160 mm, L=500 mm	PP/Met	•	•	(2)	20131046
	Extension Ø110/160 mm, L=1000 mm	PP/Met	•	•	(2)	20131050
	45° bend Ø110/160 mm	PP/Met	•	•	(2)	20131036
	90° bend Ø110/160 mm	PP/Met	•	•	(2)	20131040
	90° bend with inspection Ø110/160 mm	PP/Met	•	•	(2)	20131147
	Double adaptor Ø110/110 mm - concentric Ø110/160 mm	PP/Met	•	•	(2)	20131059
	Ø110/160 concentric horizontal flue terminal	PP/Met	•	•	(2)	20131149
	Outlet on roof Ø110/160 mm	PP/PE	•	•	(2)	20147403

(*) PP material: colour may change over time because of sun's rays exposure














(2) H1 pressure level according to EN 1443.

NOTE: if in the flue line there is a component with P1 pressure level (according to EN 1443), all the line has P1 pressure level even if all the other components are in H1 pressure level (according to EN 1443)















NOTE: please, refer to boiler installation manual for maximum flue line length

Deductible products only in the context of the refurbishment of the system or the energy-efficient retrofitting of the building. Therefore please always check the specific ways of accessing the incentive.

PLASTIC FLUE SYSTEM Ø160 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160 mm	PP	20062445
	45° bend Ø160 mm	PP	20032646
	90° bend Ø160 mm	PP	20032644
	Inspection bend Ø160 mm	PP	20062446
	Extention Ø160 mm, L=500 mm	PP	20060940
	Extention Ø160 mm, L =1000 mm	PP	20060941
	Extention Ø160 mm, L=2000 mm	PP	20060942
	Inspection extention Ø160 mm	PP	20060945
	Chimney support Ø160 mm	PP	20062703
	Chimney cover Ø160 mm (stainless steel)	PP	20060953
	Condensate drain pipe Ø160 mm	PP	20062447
	T connection Ø160 mm with condensate drain and chimney support	PP	20063419
	T connection Ø160 mm with condensate drain	PP	20062448












PLASTIC FLUE SYSTEM Ø200 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Concentric adapter Ø200-160 mm	PP	20062567
	30° bend Ø200 mm	PP	20062539
	45° bend Ø200 mm	PP	20062542
	90° bend Ø200 mm	PP	20062543
	Inspection bend Ø200 mm	PP	20062545
	Extention Ø200 mm L =500 mm	PP	20062527
	Extention Ø200 mm L =1000 mm	PP	20062530
	Extention Ø200 mm L =2000 mm	PP	20062532
	Inspection extention Ø200 mm	PP	20062534
	Chimney support Ø200 mm	PP	20062548
	Chimney cover Ø200 mm (stainless steel)	PP	20062547
	Condensate drain pipe Ø200 mm	PP	20062537
	T connection Ø200 mm with condensate drain and chimney support	PP	20063420
	T connection Ø200 mm with condensate drain	PP	20062550

PLASTIC FLUE SYSTEM Ø250 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø250-160 mm	PP	20062606
	Concentric adapter Ø250-200 mm	PP	20062607
	Eccentric adapter Ø250-200 mm	PP	20132393
	30° bend Ø250 mm	PP	20062593
	45° bend Ø250 mm	PP	20062594
	90° bend Ø250 mm	PP	20062595
	Inspection bend Ø250 mm	PP	20062598
	Extention Ø250 mm, L=500 mm	PP	20062576
	Extention Ø250 mm, L=1000 mm	PP	20062577
	Extention Ø250 mm, L=2000 mm	PP	20062578
	Inspection extention Ø250 mm	PP	20062591
	Chimney support Ø250 mm	PP	20062600
	Chimney cover Ø250 mm (stainless steel)	PP	20062599
	Condensate drain pipe Ø250 mm	PP	20062592
	T connection Ø250 mm with condensate drain and chimney support	PP	20063421
	T connection Ø250 mm with condensate drain	PP	20062601









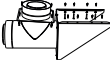
PLASTIC FLUE SYSTEM Ø300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300-160 mm	PP	20158581
	Eccentric adapter Ø300-250 mm	PP	20158580
	45° bend Ø300 mm	PP	20145293
	90° bend Ø300 mm	PP	20145294
	Inspection bend Ø300 mm	PP	20158567
	Extention Ø300 mm, L=500 mm	PP	20145292
	Extention Ø300 mm, L=1000 mm	PP	20145295
	Extention Ø300 mm, L=2000 mm	PP	20145296
	Inspection extention Ø300 mm	PP	20145290
	Chimney support Ø300 mm	PP	20158569
	Condensate drain pipe Ø300 mm	PP	20158566
	T connection Ø300 mm with condensate drain and chimney support	PP	20158572
	T connection Ø300 mm with condensate drain	PP	20158571





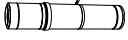


DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø160-225 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø160-225 mm	PP/Met	20062658
	45° bend Ø160-225 mm	PP/Met	20062659
	90° bend Ø160-225 mm	PP/Met	20062660
	Extention Ø160-225 mm, L=500 mm	PP/Met	20062655
	Extention Ø160-225 mm, L=1000 mm	PP/Met	20062656
	Inspection extention Ø160-225 mm, L=1000 mm	PP/Met	20062657
	Pipe for terminal Ø160-225 mm	PP/Met	20062662
	Terminal Ø160-225 mm	PP/Met	20062663
	Chimney support Ø160-225 mm	PP/Met	20062661

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø200-300 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	30° bend Ø200-300 mm	PP/Met	20062669
	45° bend Ø200-300 mm	PP/Met	20062670
	90° bend Ø200-300 mm	PP/Met	20062671
	Extention Ø200-300 mm, L=500 mm	PP/Met	20062666
	Extention Ø200-300 mm, L=1000 mm	PP/Met	20062667
	Inspection extention Ø200-300 mm	PP/Met	20062668
	Pipe for terminal Ø200-300 mm	PP/Met	20062673
	Terminal Ø200-300 mm	PP/Met	20062674
	Chimney support Ø200-300 mm	PP/Met	20062672

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø250-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	45° bend Ø250-350 mm	PP/Met	20062689
	Extention Ø250-350 mm, L=500 mm	PP/Met	20062676
	Extention Ø250-350 mm, L=1000 mm	PP/Met	20062677
	Inspection extention Ø250-350 mm	PP/Met	20062688
	Pipe for terminal Ø250-350 mm	PP/Met	20062691
	Terminal Ø250-350 mm	PP/Met	20062692
	Chimney support Ø250-350 mm	PP/Met	20062690

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

TERMINAL UNITS
























SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

DOUBLE WALL PLASTIC/INOX FLUE SYSTEM Ø300-350 mm FOR CONDENSING BOILERS

Drawing	Description	Material	Code
	Eccentric adapter Ø300/350 mm - 250/350 mm	PP/Met	20158598
	45° bend Ø300-350 mm	PP/Met	20158600
	Extention Ø300-350 mm, L=500 mm	PP/Met	20158601
	Extention Ø300-350 mm, L=1000 mm	PP/Met	20158602
	Inspection extention Ø300-350 mm	PP/Met	20158603
	Pipe for terminal Ø300-350 mm	PP/Met	20158604
	Terminal Ø300-350 mm	PP/Met	20158605
	Chimney support Ø300-350 mm	PP/Met	20158606
	Boiler cnnnection Ø300-350 mm (STEEL PRO POWER)	PP/Met	20158607
	Condensate drain pipe Ø300-350 mm	PP/Met	20158594

FLUE SYSTEM ACCESSORIES

Drawing	Description	Code
	Siphon Long John	20062443
	Tool Ø160 mm	20062510
	Tool Ø200 mm	20062563
	Tool Ø250 mm	20062604
	Spacers Ø300-500 mm	20158577
	Spacers Ø160 mm	20062444
	Spacers Ø160 mm (5pz)	20060948
	Spacers Ø200 mm	20062564
	Spacers Ø225 mm	20062664
	Spacers Ø250 mm	20062605
	Grid Ø160 mm	20062513
	Grid Ø200 mm	20062575
	Grid Ø250 mm	20062636
	Grid Ø300 mm	20158576
	Wall cover Ø160 mm	20062512
	Wall cover Ø200 mm	20062574
	Wall cover Ø225 mm	20062665
	Wall cover Ø250 mm	20062635
	Wall cover Ø300 mm	20062675
	Wall cover Ø350 mm	20062693
	Wall feeder Ø160-225 mm	20062449
	Wall feeder Ø200-300 mm	20062556
	Wall feeder Ø250-350 mm	20062602



AIR CONDITIONING



AIR CONDITIONERS 349




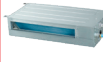





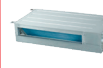


PROFESSIONAL AIR CONDITIONERS 365

WATER CHILLERS 373

AIR CONDITIONERS

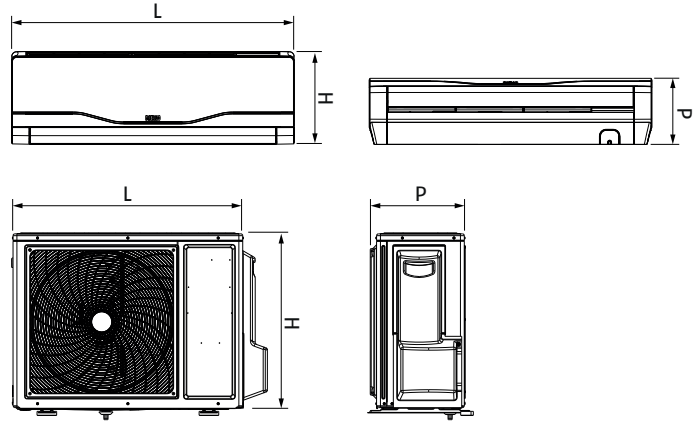


AIR CONDITIONERS FOR SMALL- AND MEDIUM-SIZED ROOMS

	WALL-MOUNTED	CEILING/FLOOR	CASSETTE	DUCTED
MONO INVERTER	 <p>AARIA MONO PLUS AMW AARIA AMW 25 PLUS SET AARIA AMW 35 PLUS SET AARIA AMW 50 PLUS SET</p> <p>page 350</p>	 <p>AARIA MONO PLUS AMS AARIA AMS 35 P SET AARIA AMS 50 P SET</p> <p>page 352</p>	 <p>AARIA MONO PLUS AMK AARIA AMK 35 P SET AARIA AMK 50 P SET</p> <p>page 355</p>	 <p>AARIA MONO PLUS AMD AARIA AMD 35 P SET AARIA AMD 50 P SET</p> <p>page 357</p>
		 <p>AARIA MONO PLUS AMC AARIA AMC 25 P SET AARIA AMC 35 P SET AARIA AMC 42 P SET</p> <p>page 353</p>		
	 <p>AARIA START AARIA START 25 AARIA START 35 AARIA START 50 AARIA START 70</p> <p>page 358</p>			
MULTI INVERTER	 <p>AARIA MULTI WALL-MOUNTED AMW 20 P AMW 25 P AMW 35 P AMW 50 P AMW 70 P</p> <p>page 360</p>	 <p>AARIA MULTI CEILING/FLOOR AMS 35 P AMS 50 P AMS 70 P</p> <p>page 360</p>	 <p>AARIA MULTI CASSETTE AMK 25 P AMK 35 P AMK 50 P AMK 70 P</p> <p>page 360</p>	 <p>AARIA MULTI DUCTED AMD 25 PA AMD 35 PA AMD 50 PA AMD 70 PA AMD 70 PB</p> <p>page 360</p>
		 <p>AARIA MULTI CONSOLE AMC 25 P AMC 35 P AMC 42 P</p> <p>page 360</p>		
MONOBLOC		 <p>AARIA ONE INVERTER AARIA ONE INVERTER</p> <p>page 363</p>		

Wall-mounted mono inverter air conditioners

AARIA MONO PLUS-AMW



- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- High energy efficiency class A+++/A++, for limited consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 P	Indoor	280	855	200	10,0
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMW 35 P	Indoor	280	855	200	10,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMW 50 P	Indoor	322	997	230	13,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A+++ / A++.

Outdoor is unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation.

AARIA MONO PLUS range has three models from 2.5 kW to 5.0 kW.

Using the infra-red remote control that is supplied it is possible to manage all the unit's function.

The AARIA MONO PLUS air conditioners can be equipped with an optional Wi-Fi kit, for complete remote management via Dedicated APP RiCLOUD AC.

- Indoor unit equipped with a hidden LED DISPLAY
- SMART mode for automatic operation
- SLEEP function for maximum night comfort
- QUIET function for ultra silent operation
- ANTIFREEZE function to start the unit when the internal temperature falls below 10 °C
- AUTORESTART function in case of power failure
- Outdoor unit complete with attachment covers.

TECHNICAL DATA


Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class		Code
									SEER	SCOP	
AMW 25 P	2,6	107	2,4	731	Indoor				A+++	A++	20127839
AARIA MONO 25 PLUS					Outdoor						20151556
AARIA AMW 25 PLUS SET						6,35	9,52	15/10			20127854
AMW 35 P	3,5	144	2,8	854	Indoor				A+++	A++	20127841
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMW 35 PLUS SET						6,35	9,52	15/10			20127858
AMW 50 P	5,2	253	4,6	1401	Indoor				A+++	A++	20127842
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMW 50 PLUS SET						6,35	12,7	25/15			20127859

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

The performances refer to the following conditions:

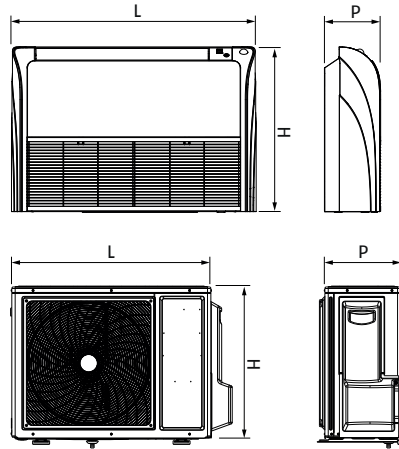
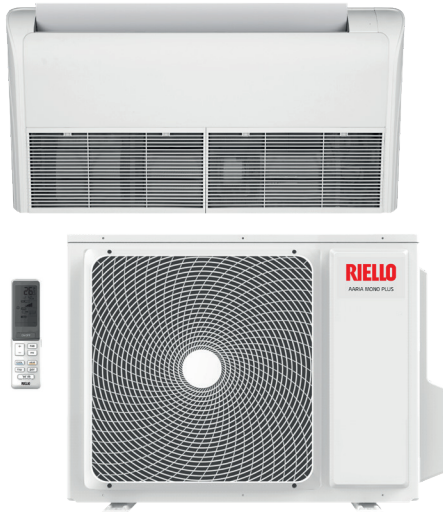
- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	20161702

Ceiling/floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMS



- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A+++/A+ energy class, for low consumption
- With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 35 P	Indoor	680	1000	230	26,0
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMS 50 P	Indoor	680	1000	230	26,0
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS-AMS air conditioners, with ceiling/floor-standing installation, are designed for medium and small spaces, to allow proposals with high energy yields and a functional design. The unit with low environmental impact R32 refrigerant achieves A+++/A+ energy efficiency classes.

The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in two output ratings from 3.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Indoor unit with on-board DISPLAY
- SMART mode for automatic operation
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Wired control on request.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class		Code
									SEER	SCOP	
AMS 35 P	3,50	146	3,00	945	Indoor				A+++	A+	20151552
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMS 35 P SET						6,35	9,52	15/10			20161590
AMS 50 P	5,00	240	4,40	1491	Indoor				A+++	A+	20151553
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMS 50 P SET						6,35	12,7	25/15			20161592

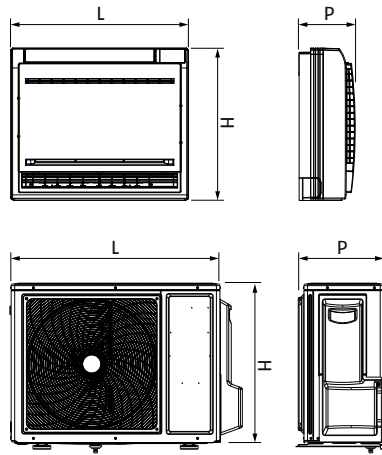
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Floor-standing mono inverter air conditioners

AARIA MONO PLUS-AMC





- Ceiling/floor-standing Inverter Monosplit
- R32 heat pump, low environmental impact
- High A++/A+ energy class, for low consumption
- With infrared control

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMC 25 P	Indoor	600	700	210	16,5
AARIA MONO 25 PLUS	Outdoor	550	800	280	29,0
AMC 35 P	Indoor	600	700	210	16,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMC 42 P	Indoor	600	700	210	16,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

The AARIA MONO PLUS-AMC air conditioners, for floor-standing installation, are suitable for medium and small environments, to allow proposals with high energy efficiency and functional design. The unit with low environmental impact R32 refrigerant achieves A++/A+ energy efficiency classes. The unit consists of an outdoor unit equipped with ROTARY inverter compressor, to ensure maximum comfort during operation, and an indoor unit, with 4 fan speeds. The AARIA MONO PLUS unit that can be paired is available in three output ratings from 2.5 kW to 5.0 kW. The offer is completed by an infrared remote control supplied as a standard, through which it is possible to manage all the unit functions.

- Dual airflow management
- SMART mode for automatic operation
- DRY operation for dehumidification
- QUIET function for ultra quiet operation
- AUTORESTART function in case of blackout
- Outdoor unit complete with connection covers
- Infrared remote control.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class		Code
									SEER 	SCOP 	
AMC 25 P	2,50	107	2,40	798	Indoor				A++	A+	20151549
AARIA MONO 25 PLUS					Outdoor						20151556
AARIA AMC P MONO 25 PLUS						6,35	9,52	15/10			20161593
AMC 35 P	3,50	157	2,90	962	Indoor				A++	A+	20151550
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMC P MONO 35 PLUS						6,35	9,52	15/10			20161594
AMC 42 P	4,20	208	3,20	1115	Indoor				A++	A+	20151551
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMC P MONO 50 PLUS						6,35	12,7	25/15			20161595

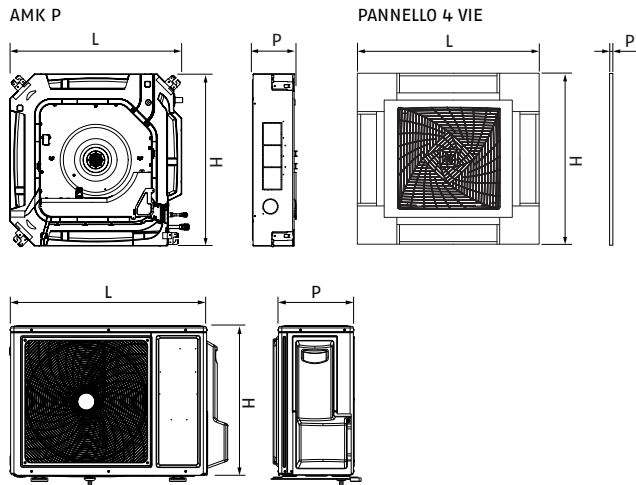
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Cassette mono inverter air conditioners

AARIA MONO PLUS-AMK



- Monosplit Inverter with cassettes
- R32 heat pump, low environmental impact
- With remote control
- Condensate drain pump on the unit



Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 35 P	Indoor	570	570	260	19
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2
AMK 50 P	Indoor	570	570	260	19
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8
4 WAY PANEL AMK 25-35-50 P	Panel	700	700	60	2

AARIA MONO PLUS air conditioners, Cassette installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A +++ / A ++.

The centrifugal fan of the indoor unit has three speeds that allow to reach low level of noise at super-low speed. The unit is ultra compact with a depth of 260 mm with a 700x700 mm cover panel. The outdoor unit has a high efficiency rotary compressor which reduces vibrations to a minimum and is characterized by perfect sound-proofing insulation..

- QUIET function for ultra silent operation
- DEHUMIDIFICATION operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Infrared remote control as standard

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attach- ments mm	Gas attach- ments mm	L/H max m	Energy efficiency class		Code
									SEER 	SCOP 	
AMK 35 P	3,5	187	3	1025	Indoor				A++	A	20151429
AARIA MONO 35 PLUS					Outdoor						20151557
4 WAY PANEL AMK 25-35-50 P						6,35	9,52	15/10			20151431
AARIA AMK 35 P SET											20161587
AMK 50 P	5	264	4,5	1425	Indoor				A++	A	20151430
AARIA MONO 50 PLUS					Outdoor						20151558
4 WAY PANEL AMK 25-35-50 P						6,35	12,7	25/15			20151431
AARIA AMK 50 P SET											20161589

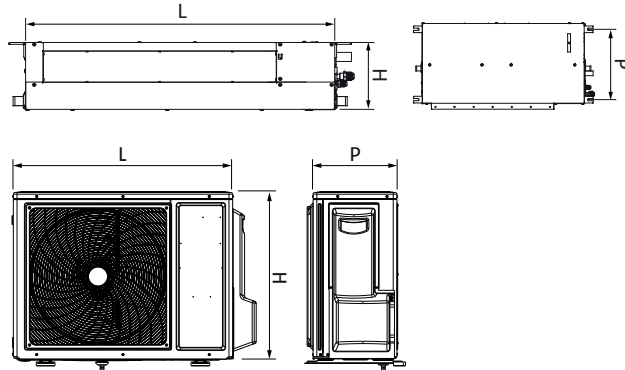
The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

The performances refer to the following conditions:

- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

Duct-connected mono inverter air conditioners

AARIA MONO PLUS-AMD



- Monosplit Ducted inverter
- R32 heat pump, low environmental impact
- With wired remote control
- The indoor unit with 185 mm in height

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 35 PA	Indoor	185	850	420	15,5
AARIA MONO 35 PLUS	Outdoor	550	800	280	31,5
AMD 50 PA	Indoor	185	1170	420	21,5
AARIA MONO 50 PLUS	Outdoor	614	820	338	37,8

AARIA MONO PLUS air conditioners, with Duct installation, are designed as a medium and small size residential environment, to allow proposals with high energy efficiency and modern design. The unit with R32 refrigerant with low environmental impact reaches classes of energy efficiency A+++ / A++.

AARIA MONO PLUS - AMD range has two models from 3.5 kW and 5.0 kW.

The fan of the indoor unit is ductable, with three speeds allowing to reach high levels of silence. With a height of 185 mm the unit is one of the most compact in its category. The outdoor unit has a high efficiency rotary compressor to minimize vibrations and is characterized by a perfect sound insulation.

- QUIET function for ultra silent operation
- DEHUMIDIFICATION operation
- AUTORESTART function in case of power failure
- POWER mode for fast temperature reaching
- Outdoor unit complete with attachment covers
- Standard wired control.

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class		Code
									SEER	SCOP	
AMD 35 PA	3,5	187	3	1025	Indoor				A++	A	20151424
AARIA MONO 35 PLUS					Outdoor						20151557
AARIA AMD 35 PA SET						6,35	9,52	15/10			20161585
AMD 50 PA	5	264	4,5	1425	Indoor				A++	A	20151425
AARIA MONO 50 PLUS					Outdoor						20151558
AARIA AMD 50 PA SET						6,35	12,7	25/15			20161586

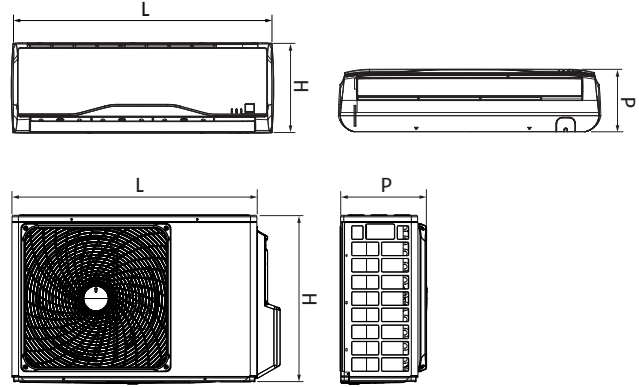
The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

The performances refer to the following conditions:

- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

Wall-mounted mono inverter air conditioners

AARIA START



- Monosplit wall-mounted inverter
- R32 heat pump, low environmental impact
- Energy efficiency class A++/A+

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 25 ST	Indoor	280	820	195	8,8
AARIA START 25	Outdoor	540	780	245	27,0
AMW 35 ST	Indoor	280	820	195	8,8
AARIA START 35	Outdoor	540	780	245	28,0
AMW 50 ST	Indoor	318	1008	225	11,6
AARIA START 50	Outdoor	614	820	338	37,8
AMW 70 ST	Indoor	335	1125	240	14,0
AARIA START 70	Outdoor	697	890	353	51,0

The AARIA START air conditioners, for installation on a wall, the ideal Riello solutions for small and medium sized homes. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology.

The AARIA START range has four models, from 2.6 kW up to 7.0 kW when cooling.

The fan of the 4-speed indoor wall unit allows you to reach high levels of silence, up to 20 dB(A), at an extremely low speed. The outdoor unit has a high efficiency rotary compressor with sound-absorbing insulation.

Using the infra-red remote control that is supplied it is possible to manage all the unit's function.

The AARIA START air conditioners are equipped with an optional Wi-Fi kit, for complete management using a specific RiCLOUD AC APP.


- SMART mode for automatic operation
- SLEEP function for maximum night-time comfort
- QUIET function for ultra-silent operation
- AUTORESTART function if the power supply is interrupted
- Outdoor unit complete with connection covers
- Infra-red remote control supplied

TECHNICAL DATA

Description	Output in cooling (T=+35 °C) kW	Annual consumption kWh/year	Output in heating (Pdesign T=-10 °C) kW	Annual consumption kWh/year	Unit type	Liquid attachments mm	Gas attachments mm	L/H max m	Energy efficiency class		Code
									SEER	SCOP	
AMW 25 ST	2,6	147	2,4	839	Indoor				A++	A+	20139544
AARIA START 25					Outdoor						20139542
AARIA AMW 25 START SET						6,35	9,52	15/10			20140092
AMW 35 ST	3,6	186	3,2	1123	Indoor				A++	A+	20139545
AARIA START 35					Outdoor						20139546
AARIA AMW 35 START SET						6,35	9,52	15/10			20140095
AMW 50 ST	5,2	268	5,2	1819	Indoor				A++	A+	20139547
AARIA START 50					Outdoor						20139548
AARIA AMW 50 START SET						6,35	12,7	25/15			20140096
AMW 70 ST	7,0	350	5,6	1963	Indoor				A++	A+	20139549
AARIA START 70					Outdoor						20139550
AARIA AMW 70 START SET						6,35	12,7	25/15			20140106

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone. The performances refer to the following conditions:
 - Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
 - Heating: indoor unit input air temperature 20 °C Tb.s.

ACCESSORIES

Drawing	Description	Code
	Air conditioner Wi-Fi interface kit	20161702

HYBRID SYSTEMS

HEAT PUMPS

WALL-HUNG BOILERS

FLOOR-STANDING BOILERS

WATER-HEATERS

SOLAR THERMAL AND CYLINDERS

CENTRALIZED HEATING

AIR CONDITIONING

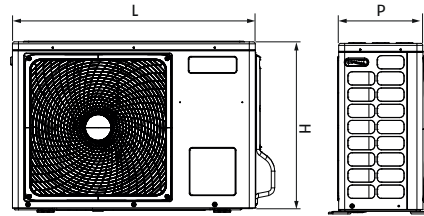
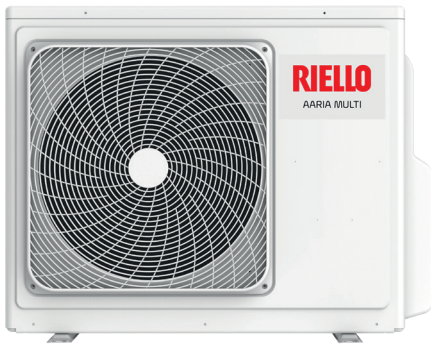
TERMINAL UNITS

SYSTEM COMPLEMENTARY ITEMS

HOT AIR GENERATORS

Multi inverter air conditioners

AARIA MULTI PLUS



- Multisplit DC inverter air conditioner
- Multi range of up to 4 indoor units
- R32 heat pump with low environmental impact

Description	Unit type	H mm	L mm	P mm	Net weight kg
AARIA MULTI 250 P	Outdoor	553	800	275	36
AARIA MULTI 355 P	Outdoor	700	890	340	51
AARIA MULTI 370 P	Outdoor	700	890	340	54
AARIA MULTI 475 P	Outdoor	700	890	340	61
AARIA MULTI 485 P	Outdoor	700	890	340	61
AARIA MULTI 590 P	Outdoor	760	920	372	66

The AARIA MULTI PLUS range has been designed to serve several rooms with the use of just a single outdoor unit. The main feature is the flexibility of the choices of the indoor units with a wide selection of wall-mounted, duct-connected and cassettes. AARIA MULTI PLUS is available in 5 models from 5 kW to 8.5 kW of delivered cooling capacity, providing state-of-the-art energy performances. The unit with the low environmental impact R32 refrigerant attains energy efficiency values equivalent to class A++/A+, thanks to the Inverter technology. The metal outdoor unit that is pre-coated to withstand the elements has attachment covers and a plastic front grille.

The high efficiency TWIN ROTARY compressor can reduce vibrations to a minimum.

- Condensing unit with up to 4 attachments for the indoor units
- Wide range of indoor units: wall, cassettes and duct-connected
- DC Inverter technology
- High SCOP and SEER
- Up to 100 m long pipes
- Operating limit of the outdoor unit: AARIA MULTI 250 P down to -15°C in heating mode and up to +43°C in cooling mode; AARIA MULTI 355 - 590 P down to -25°C in heating mode and up to +43°C in cooling mode
- Compact dimensions
- High energy efficiency class for low consumption.

TECHNICAL DATA

Description	Unit type	Indoor unit combination	Output in cooling (T=+35°C) kW	Output in heating (Pdesign T=-10°C) kW	Liquid attachments mm	Gas attachments mm	Energy efficiency class		Code
							SEER	SCOP	
AARIA MULTI 250 P	DUAL (1:2)	2x3,5	5,0	5,2	2x6,35	2x9,52	A++	A+	20171566
AARIA MULTI 355 P	TRIAL (1:3)	3x2,5	5,5	4,7	3x6,35	3x9,52	A++	A+	20175226
AARIA MULTI 370 P	TRIAL (1:3)	3x2,5	7,0	6,0	3x6,35	3x9,52	A++	A+	20175227
AARIA MULTI 475 P	QUADRI (1:4)	4x2,5	7,5	6,3	4x6,35	3x9,52+1x12,7	A++	A+	20175228
AARIA MULTI 485 P	QUADRI (1:4)	4x2,5	8,5	7,0	4x6,35	3x9,52+1x12,7	A++	A+	20175229
AARIA MULTI 590 P	PENTA (1:5)	5x2,5	9,0	7,2	5x6,35	3x9,52+2x12,7	A++	A+	20175230

The data and the efficiency classes are declared in conformity with EN 14825 for a temperate climate zone.

The performances refer to the following conditions:

- Cooling: indoor unit input air temperature 27 °C Tb.s., 19 °C Tb.u.
- Heating: indoor unit input air temperature 20 °C Tb.s.

TECHNICAL DATA OF WALL-MOUNT INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMW 20 P	2	2,3	25	230/1/50	600	280/855/200	6,35	9,52	20148316
AMW 25 P	2,5	2,8	25	230/1/50	600	280/855/200	6,35	9,52	20127839
AMW 35 P	3,5	3,8	25	230/1/50	650	280/855/200	6,35	9,52	20127841
AMW 50 P	5,2	6,0	40	230/1/50	900	332/997/230	6,35	12,70	20127842
AMW 70 P	7,0	8,1	45	230/1/50	1100	336/1115/243	9,52	15,88	20148318

TECHNICAL DATA OF CEILING/FLOOR INDOOR UNITS



Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMS 35 P	3,5	4,0	30	230/1/50	750	680/1000/230	6,35	9,52	20151552
AMS 50 P	5,0	5,8	30	230/1/50	880	680/1000/230	6,35	12,70	20151553
AMS 70 P	7,0	7,5	120	230/1/50	1250	680/1325/230	9,52	15,88	20151554

TECHNICAL DATA OF FLOOR INDOOR UNITS



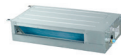
Description	Output in cooling kW	Output in heating kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m³/h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMC 25 P	2,5	2,8	40	230/1/50	400	600/700/210	6,35	9,52	20151549
AMC 35 P	3,4	3,5	40	230/1/50	450	600/700/210	6,35	9,52	20151550
AMC 42 P	4,2	4,7	40	230/1/50	530	600/700/210	6,35	9,52	20151551

TECHNICAL DATA OF INDOOR CASSETTE UNITS








Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m ³ /h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMK 25 P	2,6	3,2	33	230/1/50	510	260/570/570	6,35	9,52	20151428
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 25 P									20154918
AMK 35 P	3,5	4,0	35	230/1/50	620	260/570/570	6,35	9,52	20151429
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 35 P									20154921
AMK 50 P	5,0	5,5	38	230/1/50	700	260/570/570	6,35	12,70	20151430
4 WAY PANEL AMK 25-35-50 P						60/700/700			20151431
SET AMK 50 P									20154920
AMK 70 P	7,1	8,0	50	230/1/50	1260	204/840/840	9,52	15,88	20151432
4 WAY PANEL AMK 70 P						50/950/950			20151433
SET AMK 70 P									20155179

TECHNICAL DATA OF DUCTED INDOOR UNITS



Description	Output in cooling kW	Output in heating (Pdesign) kW	Absorbed power W	Power supply V/Ph/Hz	Maximum treated air volume m ³ /h	Dimensions (H/L/P) mm	Liquid piping Ømm	Gas piping Ømm	Code
AMD 25 PA	2,5	3,0	17	230/1/50	530	185/850/420	6,35	9,52	20151422
AMD 35 PA	3,5	4,0	28	230/1/50	600	185/850/420	6,35	9,52	20151424
AMD 50 PA	5,0	5,5	55	230/1/50	900	185/1170/420	6,35	12,70	20151425
AMD 70 PA	7,1	7,5	65	230/1/50	1000	185/1170/420	9,52	15,88	20151426
AMD 70 PB	7,1	8,0	200	230/1/50	1440	248/1100/700	9,52	15,88	20151427

ACCESSORIES

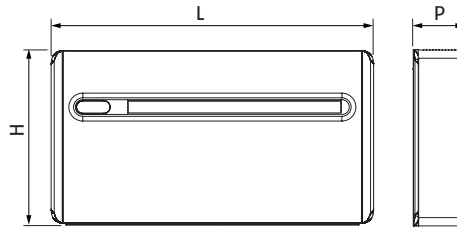
Drawing	Description	Code
	Air conditioner Wi-Fi interface kit for model AMW P	20161702
	IR remote control	20151562
	IR remote control receiver panel	20160625
	Wired remote control for AMK P models	20151469
	Centralised touch screen control N (compatible with models from AARIA MULTI 355 P)	20133642

The data and the efficiency classes are declared in conformity with EN 14825:

- Cooling: Input air temperature 27 °C Tb.s., 19 °C Tb.u.; Outdoor air temperature 35 °C Tb.s.
 - Heating: Input air temperature 20 °C Tb.s., outdoor air temperature 7 °C Tb.s./6 °C Tb.u.
- For system configurations, see the technical data sheet.

Monobloc air conditioners

AARIA ONE INVERTER



- Without outdoor unit
- Inverter monobloc with remote control
- Refrigerant R410A
- Heat pump operation

Description	H mm	L mm	P mm	Net weight kg
AARIA ONE INVERTER 25	555	1030	170	46,5

AARIA ONE INVERTER is the Riello proposal for air conditioners without outdoor unit, which eliminates any disturbance from the decorative point of view outside the house. In fact, it allows you to considerably reduce the aesthetic impact of the outdoor units, especially in all the cases in which it is necessary to preserve the artistic heritage, such as historic buildings, museums, villas, where you do not want to give up the summer air conditioning and winter heating, or for all applications in which you want to eliminate the presence of the outdoor unit.

The AARIA ONE INVERTER unit can be installed on any perimeter wall in floor-standing or hanging version, making 162 millimetres holes in the wall.

The aesthetic impact is reduced significantly also inside the house thanks to a depth of only 170 mm, smaller than conventional indoor climate control units. The cooling power delivered in comfort conditions is 2.04 kW and in heat pump mode is 2.1 kW. If necessary, the Power mode can be selected, which allows the desired temperature to be reached in the shortest time possible; once reached, AARIA ONE INVERTER will return to comfort mode operation.

The infrared remote control is supplied as standard, and there is also a control panel on board the machine that allows you to set any function, including the "lock" function that prevents any inappropriate use of the appliance.

- Inverter compressor
- Power operation
- Easy installation: only two holes
- Floor-standing or hanging installation
- Reduced depth
- Condensate tray constantly heated.

TECHNICAL DATA

Description	Cooling power kW	Thermal power kW	Cooling absorbed power W	Heating absorbed power W	(Max/min) sound pressure level dB(A) (1)	Energy efficiency class		Code
						SEER	SCOP	
AARIA ONE INVERTER 25	2,04	2,1	630	638	40/31	A+	A	20131342





Performance refers to the following conditions:

- cooling: room air temperature 27°C, outdoor air temperature 35°C.
 - heating: room air temperature 20°C, outdoor air temperature 7°C.
- (1) Values referred to 2 m distance from the machine on the inside.

PROFESSIONAL AIR CONDITIONERS

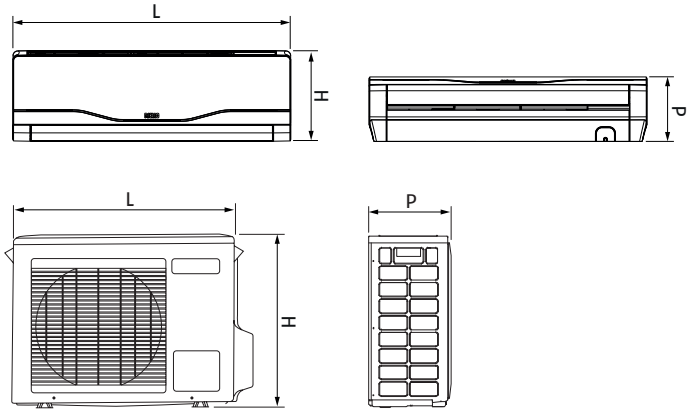


AIR CONDITIONERS FOR COMMERCIAL ENVIRONMENTS

	WALL	CEILING/FLOOR	CASSETTE	DUCTED
MONO INVERTER MATCHING	 <p>AARIA PRO AMW 70 P</p> <p>page 366</p>	 <p>AARIA PRO AMS 70-170 P</p> <p>page 367</p>	 <p>AARIA PRO AMK 70-170 P</p> <p>page 369</p>	 <p>AARIA PRO AMD 70-170 P</p> <p>page 371</p>

Wall-hung mono inverter air conditioners

AARIA PRO P-AMW



- Wall-hung Inverter monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+++/A++ for low consumption

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMW 70 P	Indoor	336	1115	243	16,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46

The AARIA PRO P-AMW series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.

The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps.

All the machines allow a connection for the introduction of fresh air into the indoor space.

The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA

Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	I/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER	SCOP	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A+	20153499
AMW 70 P	Indoor	230/1/50								-	-	20148318
AARIA PRO P 70 M SET			9,52	15,88	25/15	7,0	7,1	8,0	4,0	-	-	20166998

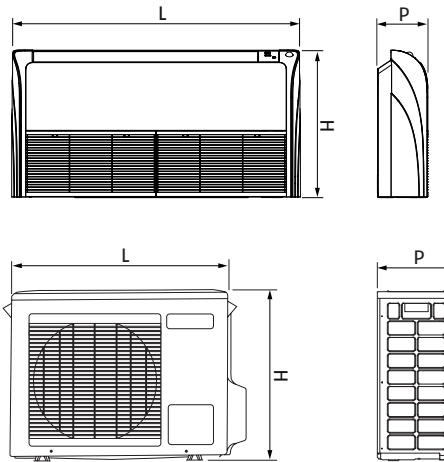
Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

Ceiling/floor-standing mono inverter air conditioners

AARIA PRO P-AMS



- Ceiling/floor-standing Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMS 70 P	Indoor	680	1000	230	26,0
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMS 100 P	Indoor	680	1325	230	33,5
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMS 125 P	Indoor	680	1650	230	43,0
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMS 140 P	Indoor	680	1650	230	43
AARIA PRO P 1140 T	Outdoor	1350	950	370	105

The AARIA PRO P-AMS series is the ideal ceiling solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings. AARIA PRO offers cooling power ratings from 7.3 to 12.9 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140.

The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency.

The ceiling indoor units have a high control of the air flow, both in horizontal and vertical direction, thanks to the motorized fins with five steps. All the machines allow a connection for the introduction of fresh air into the indoor space.

The ranges are supplied complete with infrared remote control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Easy filter maintenance and accessibility
- Possible intake of outdoor fresh air
- Infrared control included.

TECHNICAL DATA


Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER ⊕	SCOP ⊕	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A	20153499
AMS 70 P	Indoor	230/1/50								-	-	20151554
AARIA PRO AMS P 70M SET			9,52	15,88	25/15	6,9	6,1	7,5	3,8	-	-	20166939
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	A	20159411
AMS 100 P	Indoor	230/1/50								-	-	20159404
AARIA PRO AMS P 100M SET			9,52	15,88	50/30	9,5	6,03	10,2	3,8	-	-	20167018
AARIA PRO P 1125 M	Outdoor	230/1/50										20159412
AMS 125 P	Indoor	230/1/50								-	-	20159405
AARIA PRO AMS P 125M SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167019
AARIA PRO P 1125 T	Outdoor	400/3/50										20159413
AMS 125 P	Indoor	230/1/50								-	-	20159405
AARIA PRO AMS P 125T SET			9,52	15,88	50/30	12	5,86	12,5	3,81			20167020
AARIA PRO P 1140 T	Outdoor	400/3/50										20159414
AMS 140 P	Indoor	230/1/50								-	-	20159406
AARIA PRO AMS P 140T SET			9,52	15,88	75/30	12,9	6,1	14,1	4,0			20167021

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

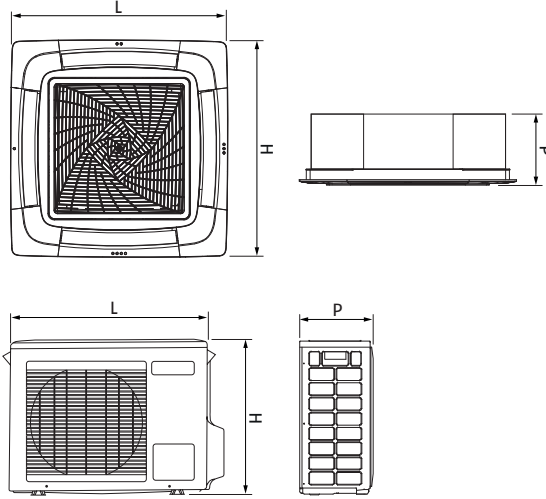
- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
	Wired control	20151469

Mono inverter-case air conditioners

AARIA PRO P-AMK



- Monosplit Inverter cassette
- Heat pump in R32 with low environmental impact
- Energy class up to A++/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMK 70 P	Interna	840	840	204	27
AARIA PRO P 1070 M	Esterna	730	860	308	46
Cover panel		950	950	50	6,5
AMK 100 P	Interna	840	840	246	31
AARIA PRO P 1100 M	Esterna	760	920	372	60
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 M	Esterna	965	950	370	83
Cover panel		950	950	50	6,5
AMK 125 P	Interna	840	840	288	32,0
AARIA PRO P 1125 T	Esterna	965	950	370	85
Cover panel		950	950	50	6,5
AMK 140 P	Interna	840	840	288	32,0
AARIA PRO P 1140 T	Esterna	1350	950	370	105
Cover panel		950	950	50	6,5



The AARIA PRO P-AMK series is the ideal cassette solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P offers cooling power ratings from 7.1 kW to 12.2 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1025 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with high seasonal efficiency. The AMK-P indoor cassette units are designed for recessed ceiling installation and their dimensions are 840x840 mm.

The design features a plastic cover panel with central air intake and 4-way delivery, with individually orientable ventilation. The unit is complete with infrared control.

- AUTORESTART function in case of blackout
- Indoor unit with fan suitable for quiet operation
- Condensate pump on board of the unit
- Easy filter maintenance and accessibility
- Possible intake of additional air
- Infrared control.

TECHNICAL DATA




Description	Unit type	Electrical power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
						kW	SEER	kW	SCOP	SEER 	SCOP 	
AARIA PRO P 1070 M	Outdoor	230/1/50								A++	A	20153499
AMK 70 P	Indoor	230/1/50								-	-	20151432
Cover panel										-	-	20151433
AARIA PRO AMK P 70M SET			9,52	15,88	25/15	7,1	6,1	8,0	3,8	-	-	20167000
AARIA PRO P 1100 M	Outdoor	230/1/50								A+	A	20159411
AMK 100 P	Indoor	230/1/50								-	-	20158940
Cover panel										-	-	20151433
AARIA PRO AMK P 100M SET			9,52	15,88	50/30	9,0	5,7	10,1	3,8	-	-	20167001
AARIA PRO P 1125 M	Outdoor	230/1/50								-	-	20159412
AMK 125 P	Indoor	230/1/50								-	-	20158941
Cover panel										-	-	20151433
AARIA PRO AMK P 125M SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	-	20167003
AARIA PRO P 1125 T	Outdoor	400/3/50								-	-	20159413
AMK 125 P	Indoor	230/1/50								-	-	20158941
Cover panel										-	-	20151433
AARIA PRO AMK P 125T SET			9,52	15,88	50/30	12	5,9	12,3	3,7	-	-	20167004
AARIA PRO P 1140 T	Outdoor	400/3/50								-	-	20159414
AMK 140 P	Indoor	230/1/50								-	-	20158942
Cover panel										-	-	20151433
AARIA PRO AMK P 140T SET			9,52	15,88	75/30	12,2	5,1	14,3	3,7	-	-	20167005

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

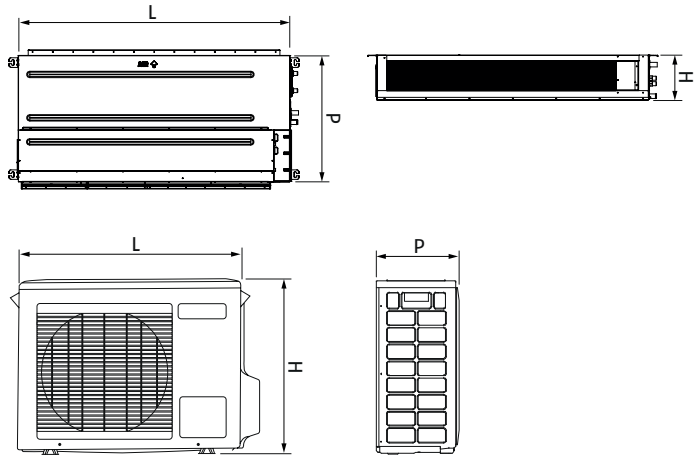
ACCESSORIES

Drawing	Description	Notes	Code
	IR remote control	(1)	20151562
	IR remote control receiver panel	(1)	20160625
	Wired control		20151469

(1) Already included as standard in AMK models.

Mono inverter air conditioners-ductable

AARIA PRO P-AMD



- Ducted Inverter Monosplit
- Heat pump in R32 with low environmental impact
- Energy class up to A+/A

Description	Unit type	H mm	L mm	P mm	Net weight kg
AMD 70 PA	Indoor	185	1170	420	21,5
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 70 PB	Indoor	248	1100	700	36
AARIA PRO P 1070 M	Outdoor	730	860	308	46
AMD 100 PB	Indoor	248	1500	700	35
AARIA PRO P 1100 M	Outdoor	760	920	372	60
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 M	Outdoor	965	950	370	83
AMD 125 PB	Indoor	248	1500	700	52
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 125 PC	Indoor	425	1350	490	61
AARIA PRO P 1125 T	Outdoor	965	950	370	85
AMD 140 PB	Indoor	248	1500	700	52,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105
AMD 140 PC	Indoor	425	1350	490	61,0
AARIA PRO P 1140 T	Outdoor	1350	950	370	105



The AARIA PRO P-AMD series is the ideal ductable solution for air conditioning of medium/large commercial premises such as shops, offices and public buildings.

AARIA PRO P-AMD offers cooling power ratings from 7.1 kW to 13.5 kW, with single-phase power supply for rating from 1070 to 1125 and three-phase power supply for rating from 1125 to 1140. The high operating limits (down to -15 °C) ensure effective use for both summer cooling and winter heating, with seasonal efficiency among the highest on the market. AMD indoor units are preset for installations requiring air ducting.

The compact size and the versatility of the range, with heads up to 250 Pa, allow a high variety of installations. The offer is complete with the wired control.

- AUTORESTART function in case of blackout
- Easy filter maintenance and accessibility
- Wired control included

TECHNICAL DATA



Description	Unit type	Power supply V/Ph/Hz	Liquid connections mm	Connections gas mm	L/H max m	Head Pa	Output in cooling mode (T=+35 °C)		Output in heating mode (T=+7 °C)		Energy efficiency class		Code
							kW	SEER	kW	SCOP	SEER 	SCOP 	
AARIA PRO P 1070 M	Outdoor	230/1/50									A++	A	20153499
AMD 70 PA	Indoor	230/1/50									-	-	20151426
AARIA PRO AMD P 70M SET A			9,52	15,88	25/15	0/40	7,1	6,1	7,5	3,8	-	-	20167006
AARIA PRO P 1070 M	Outdoor	230/1/50									A++	A+	20153499
AMD 70 PB	Indoor	230/1/50									-	-	20151427
AARIA PRO AMD P 70M SET B			9,52	15,88	25/15	25/150	7,1	6,1	8,0	4,0	-	-	20167008
AARIA PRO P 1100 M	Outdoor	230/1/50									A+	A	20159411
AMD 100 PB	Indoor	230/1/50									-	-	20158936
AARIA PRO AMD P 100M SET B			9,52	15,88	50/30	25/150	9,5	5,6	10,2	3,8	-	-	20167009
AARIA PRO P 1125 M	Outdoor	230/1/50									-	-	20159412
AMD 125 PB	Indoor	230/1/50									-	-	20158937
AARIA PRO AMD P 125M SET B			9,52	15,88	50/30	25/150	11,9	5,6	12,2	3,8	-	-	20167010
AARIA PRO P 1125 M	Outdoor	230/1/50									-	-	20159412
AMD 125 PC	Indoor	230/1/50									-	-	20159407
AARIA PRO AMD P 125M SET C			9,52	15,88	50/30	40/250	12	5,8	12,2	3,7	-	-	20167014
AARIA PRO P 1125 T	Outdoor	400/3/50									-	-	20159413
AMD 125 PB	Indoor	230/1/50									-	-	20158937
AARIA PRO AMD P 125T SET B			9,52	15,88	50/30	25/150	11,9	5,6	12,2	3,6	-	-	20167012
AARIA PRO P 1125 T	Outdoor	400/3/50									-	-	20159413
AMD 125 PC	Indoor	230/1/50									-	-	20159407
AARIA PRO AMD P 125T SET C			9,52	15,88	50/30	40/250	12	5,8	12,2	3,7	-	-	20167015
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	20159414
AMD 140 PB	Indoor	230/1/50									-	-	20158938
AARIA PRO AMD P 140T SET B			9,52	15,88	75/30	25/150	12,5	6,1	14,5	3,8	-	-	20167016
AARIA PRO P 1140 T	Outdoor	400/3/50									-	-	20159414
AMD 140 PC	Indoor	230/1/50									-	-	20159408
AARIA PRO AMD P 140T SET C			9,52	15,88	75/30	40/250	13,5	6,1	15	4	-	-	20167017

Data and efficiency classes are declared in compliance with standard EN 14825 for temperate climate zone. Seasonal energy rating (SEER and SCOP) is only available for units below 12 kW.

Performance refers to the following conditions:

- cooling: indoor unit air inlet temperature 27°C Tb.s., 19°C Tb.u.
- heating: indoor unit air inlet temperature 20°C Tb.s.

ACCESSORIES

Drawing	Description	Code
	IR remote control	20151562
	IR remote control receiver panel	20160625

WATER CHILLERS



COLD ONLY

AIR CONDENSERS FOR
EXTERNAL INSTALLATION



NXC

NXC 017÷040

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NXC

NXC 044÷164

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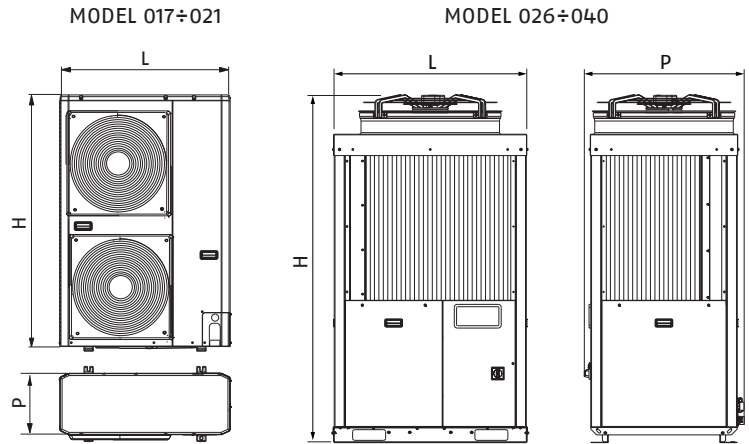
Air cooled process water chillers

NXC 017÷040

Product compliant with EU Ecodesign Regulation 2015/1095 for medium temperature process applications.



- Air cooled water chillers for powers from 17 kW to 41 kW with hydronic kit as standard



Description	H mm	L mm	P mm
NXC 017-021	1579	1136	584
NXC 026÷040	1790	1002	824

The NXC series units are air cooled water chillers with pumping unit and self-adaptive control, which allows a reduction of the quantity of water in the system.

These features, the wide operating range with outdoor temperatures up to +46°C (017-021 models) and up to +48°C (026-040 models) make this series ideal for applications where extreme compactness, simplicity and speed of installation are required. The unit is silent thanks to the high efficiency scroll compressor and the low noise axial fan.

- Plug & Play solution with pump on board the machine
- Easy maintenance by removing the service panels
- Microprocessor-based self-adaptive control system.

TECHNICAL DATA

Description	Output (1) kW	EER (1)	SEPR (2)	Notes	Code
NXC 017	22,70	3,83	2,79	(D)(3)	20120382
NXC 021	29,50	3,88	2,92	(D)(3)	20120383
NXC 026	38,40	3,94	2,97	(D)(3)	20120384
NXC 033	45,40	4,03	2,89	(D)(3)	20120385
NXC 040	57,00	3,47	2,96	(D)(3)	20120386

The performance is in accordance with standard EN 14511-3:2013 and refers to the following conditions:

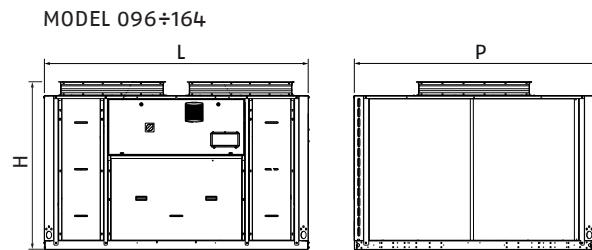
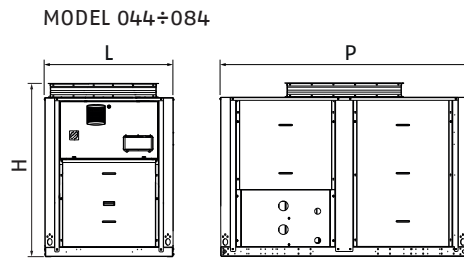
- (1) Reference standard EN 14511-3:2013 for delivery water temperature 18°C with water thermal gradient of 5°C; inlet air temperature 35°C.
- (2) Reference standard EU 2015/1095 for delivery water temperature conditions -8°C with water thermal gradient of 5°C (medium temperature process applications).

Conditions for supply:

- (D) Availability of the material at our warehouse: 30 working days from the order validation date.
- (3) For 7000 ACI PLUS tank accessories, refer to the dedicated section.

Air cooled water chillers

NXC 044÷164



- Air cooled water chillers with helical fans from 40 kW to 156 kW, with ecological refrigerant R410A

Description	H mm	L mm	P mm
NXC 044÷084	1330	1090	2110
NXC 096÷164	1330	2270	2110

* Height without "Tank" option.

The NXC series units are chillers for air conditioning of commercial users for outdoor installation, available with various options to choose from such as: one pump, two pumps, with or without tank, with or without partial recoverer. Maximum reliability and efficiency thanks to the high level of partialization: for powers up to 114 kW with two/three single-circuit Scroll compressors, while for powers of 135 kW and 156 kW with four compressors divided into two circuits. The water-side exchanger is of the brazed plate type.

The units are equipped with axial fans with external rotor with variable speed, to ensure operation with outdoor temperatures up to +46°C. Intuitive interface thanks to the touch screen control with possible M-BUS connection.

- Plug & Play solution with pump(s) on board the machine (optional)
- Low aesthetic impact thanks to the reduced height
- Easy maintenance by removing the service panels
- Touch screen control panel with possible M-BUS connection
- Condensing coil protection grilles not included.

TECHNICAL DATA

Description	Output (1) kW	EER (1)	Output (2) kW	EER (2)	SEER (3)	SEER (4)	SEPR (5)	η _s cool (6) %	Notes	Code
UNIT WITHOUT HYDRAULIC KIT (FURTHER CONFIGURABLE WITH LIST OF OPTIONS)										
NXC 044	53	3,44	40	2,87	3,95	4,65	5,27	155	(D)	20120391
NXC 048	59	3,32	44	2,76	4,11	5,07	5,31	161	(D)	20120392
NXC 056	69	3,12	51	2,67	4,21	4,94	5,26	166	(D)	20120393
NXC 064	81	3,31	58	2,66	4,10	4,90	5,09	161	(D)	20120394
NXC 072	85	2,97	67	2,72	3,90	4,74	4,92	153	(D)	20120396
NXC 084	98	3,06	79	2,70	4,02	5,13	5,16	158	(D)	20120397
NXC 096	114	3,18	87	2,73	4,21	5,03	4,95	165	(7)(D)	20120398
NXC 104	126	3,09	97	2,73	4,19	4,96	5,12	165	(7)(D)	20120399
NXC 122	151	3,10	114	2,67	4,10	5,24	5,51	161	(7)(D)	20120400
NXC 142	171	2,99	135	2,70	3,93	4,71	4,90	154	(7)(D)	20120401
NXC 164	194	3,01	156	2,65	4,18	5,11	5,30	164	(7)(D)	20120402

- (1) Reference standard EN 14511-3:2013 for delivery water temperature 18°C with water thermal gradient of 5°C; inlet air temperature 35°C.
- (2) Reference standard EN 14511-3:2013 for delivery water temperature 7°C with water thermal gradient of 5°C; inlet air temperature 35°C.
- (3) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (low temperature comfort applications).
- (4) Reference standard EU 2016/2281 for delivery water temperature conditions 18°C with water thermal gradient of 5°C (medium temperature comfort applications).
- (5) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (high temperature process applications).
- (6) Reference standard EU 2016/2281 for delivery water temperature conditions 7°C with water thermal gradient of 5°C (low temperature comfort applications).
- Conditions for supply
- (7) Product not subject to standard transport rates. Please contact the Order Management Office for transport quote.
- (D) Availability of the material at our warehouse: 30 working days from the order validation date.

NXC 044÷084 OPTIONS LIST

Description		044	048	056	064	072	084	Notes
Silenced version	Code	20120616	20120619	20120619	20120619	20120622	20120622	(1)
Partial recoverer	Code	20120627	20120627	20120628	20120629	20120630	20120631	(1)
Hydraulic kit with 1 high head variable pump	Code	20120587	20120587	20120587	20120587	20120587	20120587	(1)
Hydraulic kit with 2 high head variable pumps	Code	20120592	20120592	20120592	20120592	20120592	20120592	(1)
Tank	Code	20120610	20120610	20120610	20120610	20120610	20120610	(1)
Soft starter	Code	20120656	20120656	20120656	20120656	20120656	20120656	(1)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	20120659	(1)(2)
Vibration dampers	Code	20120640	20120640	20120640	20120640	20120640	20120640	(1)

- (1) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.
- (2) One kit required per unit (cascade up to a maximum of two units).
- Note: accessories have the same availability as the finished products.

NXC 096÷164 OPTIONS LIST

Description		096	104	122	142	164	Notes
Silenced version	Code	20120623	20120625	20120625	20120626	20120626	(1)
Partial recoverer	Code	20120632	20120632	20120634	20120636	20120637	(1)
Hydraulic kit with 1 high head variable pump	Code	20120588	20120588	20120589	20120589	20120589	(1)
Hydraulic kit with 2 high head variable pumps	Code	20120592	20120592	20120596	20120596	20120596	(1)
Tank	Code	20120611	20120611	20120611	20120611	20120611	(1)
Soft starter	Code	20120657	20120657	20120657	20120658	20120658	(1)
Master/slave operation management	Code	20120659	20120659	20120659	20120659	20120659	(1)(2)
Vibration dampers	Code	20120642	20120642	20120642	20120642	20120642	(1)

- (1) The options in the list below can be selected for "Silenced unit without hydraulic kit" and must be configured during the order.
- (2) One kit required per unit (cascade up to a maximum of two units).
- Note: accessories have the same availability as the finished products.



TERMINAL UNITS



FAN COILS 380

DUCTABLE FAN COILS 403

WALL MOUNTED FAN COILS 408



FAN COILS

FOR HEATING AND COOLING RESIDENTIAL SYSTEMS

FAN COILS

FAN COILS WITH RADIANT PLATE

WALL-MOUNTED
FAN COILS**HELIOTERM**
DESIGN WALL 11-23

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FAN COILS
WITH PANELS**HELIOTERM**
DESIGN S INVERTER 6-32

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**HELIOTERM**
DESIGN INVERTER 11-46

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**HELIOTERM**
DESIGN INVERTER PLUS 11-46

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FAN COILS FOR RECESSED
INSTALLATION**HELIOTERM**
IN INVERTER 11-46

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**HELIOTERM**
IN INVERTER PLUS 11-46

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FAN COILS FOR RECESSED
INSTALLATION IN BOX**HELIOTERM**
INVISIBLE INVERTER 11-46

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**HELIOTERM**
INVISIBLE INVERTER PLUS 11-46

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HEAT PUMPS

WALL-HUNG
BOILERSFLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERSCENTRALIZED
HEATINGAIR
CONDITIONING

TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMSHOT AIR
GENERATORS

FAN COILS



FOR HEATING AND COOLING COMMERCIAL SYSTEMS

COMMERCIAL

WALL-MOUNTED
FAN COILS

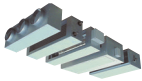


NUOVO ACU
NUOVO ACU F

ACU 12-93

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FAN COILS FOR RECESSED
INSTALLATION/DUCTED



FCU N

FCU 09-43

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"CASSETTE"
FAN COILS



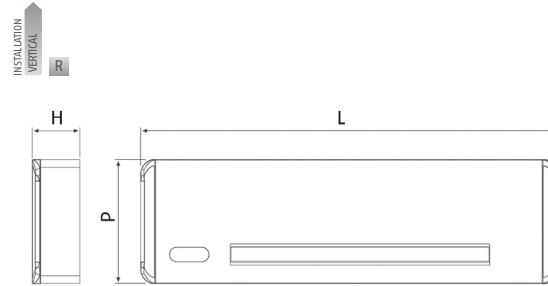
RK N HYDROLINE

RK 24N-96N

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Wall-mounted Fan coils

Design Wall



- Wall-mounted fan coils with Brushless Inverter motor

Description	H mm	L mm	P mm
DESIGN WALL 11	335	902	128
DESIGN WALL 17	335	1102	128
DESIGN WALL 23	335	1302	128

DESIGN WALL is the new Riello wall-mounted fan coils range suitable for residential and small commercial applications. Thanks to the DC-Brushless motor, the DESIGN WALL fan coils are able to operate with an high modulation of air flow rate, from 0 up to 100%, in order to keep a comfortable temperature inside the room and to ensure the minimum-noise operation. The range is characterized by an ultra slim aesthetic, with a depth of only 128 mm, to guarantee a perfect integration within the spaces.

Motorized flaps distribute air uniformly throughout the room.

The DESIGN WALL is available in two versions: equipped with remote control and on board touch display or in combination with control panel wall mounted TOP (Design Wall 11÷23P).

Three models are available, with power from 1140 W up to 2340 W in cooling mode from 1610 W to 3250 W in heating mode.

All three are available in the two versions with remote control or control panel wall mounted TOP.

- Ultra slim design
- 128 mm of depth, also with 2-3 way valve on board
- Motorized flaps for a comfortable air distribution
- Touch display control





TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m ³ /h	Sound pressure irradiation max-min (5) dB(A)	Notes	Code
WITH REMOTE CONTROL							
DESIGN WALL 11	1140	1610	2780	320	39,7-24,9		20117815
DESIGN WALL 17	1620	2350	4120	430	42,4-25,2		20117816
DESIGN WALL 23	2340	3250	5720	540	42,6-25,8		20117817
IN COMBINATION WITH CONTROL PANEL WALL MOUNTED TOP							
DESIGN WALL 11 P	1140	1610	2780	320	39,7-24,9	(A)	20181396
DESIGN WALL 17 P	1620	2350	4120	430	42,4-25,2	(A)	20181398
DESIGN WALL 23 P	2340	3250	5720	540	42,6-25,8	(A)	20181400

Performance refer to the following conditions:

- (1) Room air temperature 27 °C Tb.s. and 19 °C Tb.u.
- (2) Air temperature 20 °C Tb.s. and the same water flow rate achieved in cooling mode.
- (3) Air temperature 20 °C Tb.s.
- (4) Air flow rate measured with cleaned filters.
- (5) According to UNI EN ISO 7779:2001.
- (A) Mandatory accessory.

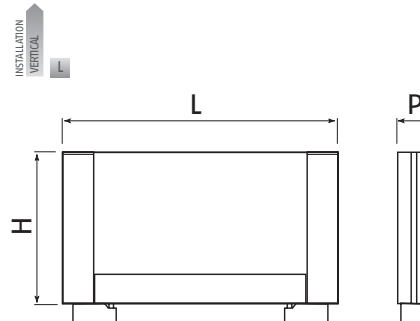
ACCESSORIES

Drawing	Description	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Motorized 3 - ways valve kit.		20099251
	Motorized 2 - ways valve kit.		20099250
	2 - ways taps kit.		20117090

(1) Mandatory accessory for Design Wall 11P+23P.

Fan coil

Design Inverter Plus



- Tangential fan coils with radiant plate and Brushless inverter motor

Description	H mm	L mm	P mm
DESIGN INVERTER PLUS 11	580	760	130
DESIGN INVERTER PLUS 21	580	960	130
DESIGN INVERTER PLUS 33	580	1160	130
DESIGN INVERTER PLUS 40	580	1360	130
DESIGN INVERTER PLUS 46	580	1560	130

DESIGN INVERTER PLUS is the TOP of what Riello has to offer for fan coils. It is ideal for providing superior comfort in heating mode. DESIGN INVERTER PLUS unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room.

In addition to the radiating effect, the entire range is equipped with the DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

The DESIGN INVERTER PLUS very quickly heat and cool any area, with the possibility of selecting between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the use of the DC Brushless motors, the DESIGN INVERTER PLUS save up to 50% on electricity compared to the fan coils with traditional motors (type ON/OFF). Just like the entire HELIOTERM range, the DESIGN INVERTER PLUS range has an ULTRA FLAT appearance, with a depth of just 13 cm and an automatic suction system.

The range is available in 5 models with outputs in cooling mode from 830 W up to 4560 W and in heating mode from 1150 W up to 4860 W.

The vast range of accessories and controls with touch DISPLAY support a wide range of applications. The versions that can be installed vertically with connections on the left.

The structure is made of galvanised sheet metal with sides made of ABS; the front delivery grille is made of aluminium.

- FULL FLAT with an automatic suction system
- Depth of 13 cm
- Terminal with radiating effect
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA










Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH RADIANT HEAT PLATE AND AUTOMATIC AIR VENTILATION									
DESIGN INVERTER PLUS 11B	1095	830	1515	1150	197	162	42,2÷24,2	39,4÷24,2	20116258
DESIGN INVERTER PLUS 21B	2120	1760	2885	2460	389	320	43,1÷25,3	40,2÷25,3	20116260
DESIGN INVERTER PLUS 33B	3310	2650	4140	3410	560	461	45,5÷25,6	42,2÷25,6	20116261
DESIGN INVERTER PLUS 40B	3875	3340	5015	4400	699	576	45,9÷26,3	42,5÷26,3	20116263
DESIGN INVERTER PLUS 46B	4560	3800	5910	5200	787	648	47,2÷27,6	43,9÷27,6	20116264

Performance refer to the following conditions:





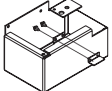
- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode.
- (3) Air temperature 20 °C
- (4) Air temperature 20 °C; main fan in "off".
- (5) Air flow rate measured with cleaned filters.
- (6) According to UNI EN ISO 7779:2001

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453

- (1) Both codes are necessary for the first fan coil.
- (2) It must be installed 1 piece for every remoted fan coil.

Drawing	Description	Notes	Code
	2-ways taps kit.		4013450
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

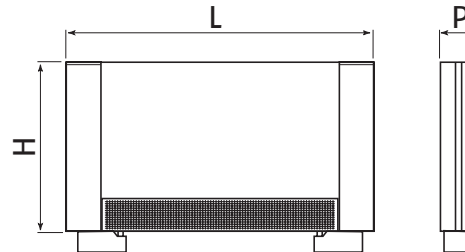
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus	•					(D)	20116460
			•				(D)	20116461
				•			(D)	20116462
					•		(D)	20116463
						•	(D)	20116464

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design Inverter



- Tangential fan coils
- Vertical or horizontal installation (with accessory)

Description	H mm	L mm	P mm
DESIGN INVERTER 11	580	760	130
DESIGN INVERTER 21	580	960	130
DESIGN INVERTER 33	580	1160	130
DESIGN INVERTER 40	580	1360	130
DESIGN INVERTER 46	580	1560	130

The DESIGN INVERTER are the Riello fan coils with DC Brushless Inverter motors, for a continuous variation from 0 to 100% of the air flow and consequently the heating and cooling capacity. The DESIGN INVERTER quickly heat and cool any area, and it is possible to choose between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the DESIGN INVERTER save up to 50% in electricity compared to the fan coils with traditional motors (ON/OFF). Just like the whole HELIOTERM family, the DESIGN INVERTER range is extremely thin, with a depth of just 13 cm.

The range comes in 5 models with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W. The wide range of accessories and e controls with a touch DISPLAY support a wide application range.

All versions can be installed vertically or horizontally (using a specific accessory), with connections on the left. The structure is made of zinc-coated sheet with ABS side parts; the front delivery grille is made of aluminium.

- Extremely thin
- Depth of 13 cm
- Units can be installed both vertically and horizontally
- Ease of installation with left connections
- Easy to remove and clean the filters
- Touch Display commands

TECHNICAL DATA














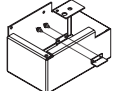

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL									
DESIGN INVERTER 11B	1095	830	1415	1090	197	162	42,2÷24,2	39,4÷24,2	20116254
DESIGN INVERTER 21B	2120	1760	2775	2350	389	320	43,1÷25,3	40,2÷25,3	20116244
DESIGN INVERTER 33B	3310	2650	3905	3190	560	461	45,5÷25,6	42,2÷25,6	20116246
DESIGN INVERTER 40B	3875	3340	4665	4100	699	576	45,9÷26,3	42,5÷26,3	20116250
DESIGN INVERTER 46B	4560	3800	5705	4860	787	648	47,2÷27,6	43,9÷27,6	20116252

Performance refer to the following conditions:


- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air flow rate measured with cleaned filters
- (5) According to UNI EN ISO 7779:2001

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

Drawing	Description	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
	2-ways taps kit.		4013450
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422
	Condensate drain 11 for horizontal installation.	(3)	20025185
	Condensate drain 21 for horizontal installation.	(3)	20025186
	Condensate drain 33 for horizontal installation.	(3)	20025187
	Condensate drain 40 for horizontal installation.	(3)	20025188
	Condensate drain 46 for horizontal installation.	(3)	20025189

- (1) Both codes are necessary for the first fan coil.
 (2) It must be installed 1 piece for every remoted fan coil.
 (3) The accessory is necessary for the horizontal installation of fan coil.

Drawing	Description	Notes	Code
	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

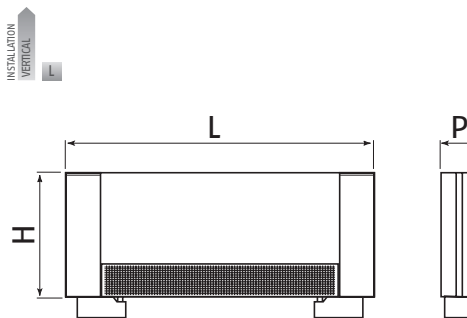
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	Back-cover panel kit for the models Design Inverter and Design Inverter Plus		•				(D)	20116460
				•			(D)	20116461
					•		(D)	20116462
						•	(D)	20116463
							•	(D)

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coil

Design S Inverter



- Tangential fan coils with Brushless inverter motor

Description	H mm	L mm	P mm
DESIGN INVERTER 6BS	379	760	130
DESIGN INVERTER 11BS	379	960	130
DESIGN INVERTER 17BS	379	1160	130
DESIGN INVERTER 23BS	379	1360	130
DESIGN INVERTER 32BS	379	1560	130

The DESIGN S INVERTER have a height of 379 mm and are lower than traditional fan coils. This feature allow their installation in limited spaces.

The whole range is provided with DC Brushless Inverter motors, allowing a continuous modulation from 0 to 100% of the air flow and consequently of the heating and cooling capacity, heating and cooling any room very rapidly.

Thanks to the DC Brushless motors, the DESIGN S INVERTER have an electrical consumption that is 50% lower than the fan coils with traditional motors. The DESIGN S INVERTER range features an ultra flat design, thanks to a depth of just 13 cm.

The structure is made of zinc-coated sheet with the frontal grille made of aluminium. The range comes in 5 models with a cooling capacity from 560 W to 3140 W and a heating capacity from 780 W till 3910 W.

The wide range of accessories and controls with a touch DISPLAY support a wide application range.

- Extremely thin
- Height 379 mm
- Easy to remove and clean the filters
- Touch Display commands


TECHNICAL DATA

Description	Power cooling 7 °C-12 °C (1) Watt	Power heating 50 °C (2) Watt	Power heating 70 °C-60 °C (3) Watt	Maximum air flow rate (4) m³/h	Sound pressure irradiation max-min (5) dB(A)	Code
WHITE FAN COIL						
DESIGN INVERTER 6BS	560	780	1390	140	38,8-23,8	20116265
DESIGN INVERTER 11BS	1040	1570	2730	250	39,5-24,9	20116267
DESIGN INVERTER 17BS	1640	2380	4140	390	41,4-25,1	20116271
DESIGN INVERTER 23BS	2310	3250	5650	540	41,6-25,7	20116272
DESIGN INVERTER 32BS	3140	3910	6620	600	42,6-26,8	20116273

Performance refer to the following conditions:

- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air flow rate measured with cleaned filters
- (5) According to UNI EN ISO 7779:2001

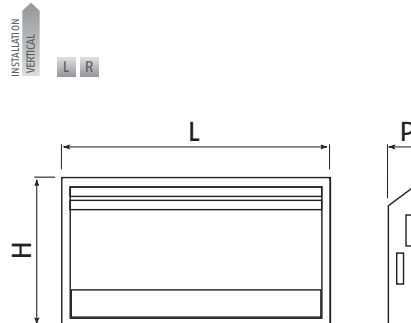
ACCESSORIES

Drawing	Description	Notes	Code
	Control panel on board BASIC. TOUCH LCD onboard panel, of amber colour, that works as: ON/OFF, room thermostat with temperature range from 5 to 40 °C, summer-winter selector, fan control with water temperature probe. Fan speed can be regulated according to four operation modes: AUTO, NIGHT, MIN e MAX. Provided with 230 V output to control of an electronic valve.		20116484
	Control panel on board TOP. TOUCH LCD electronic on board control panel with continuous modulation and ModBus RTU communication protocol. It makes the room temperature regulation fully automatic, through the programs AUTO, SILENT, NIGHT and MAX by means of a probe located in the lower part of the appliance. Communication protocol ModBus RTU.		20181365
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE) Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head, it allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management.		20076590
	2-ways taps kit.		4013450
	White-feet kit. The kit is composed by two supporting feet that allow to place the panel fan coil on the floor.		4013458
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	White mounting bracket kit. This kit is used to fix the panel fan coil to the floor, in case of installation in front of shop windows or wherever there is no possibility to fix it to the wall.		20069422

(1) Both codes are necessary for the first fan coil
 (2) It must be installed 1 piece for every remoted fan coil

Fan coil

Invisible Inverter



- Tangential fan coils with Brushless inverter motor for recessed installation in the wall (with template)

Description	H mm	L mm	P mm
INVISIBLE INVERTER 11	750	770	152
INVISIBLE INVERTER 21	750	970	152
INVISIBLE INVERTER 33	750	1170	152
INVISIBLE INVERTER 40	750	1370	152
INVISIBLE INVERTER 46	750	1570	152

INVISIBLE INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box. The white front panel with a grey intake grille in the same aesthetic line as the DESIGN INVERTER fan coil. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode. The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the INVISIBLE INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 4860 W with a wide range of accessories.

- Ultra flat design
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort	
WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL									
INVISIBLE INVERTER 11	1095	830	1415	1090	197	162	42,2÷24,2	39,4÷24,2	20069349
BOX (for recessed installation)									20025164
FRONTAL PANEL AND GRID									20116418
INVISIBLE INVERTER 21	2120	1760	2775	2350	389	320	43,1÷25,3	40,2÷25,3	20069370
BOX (for recessed installation)									20025166
FRONTAL PANEL AND GRID									20116419
INVISIBLE INVERTER 33	3310	2650	3905	3190	560	461	45,5÷25,6	42,2÷25,6	20069371
BOX (for recessed installation)									20025167
FRONTAL PANEL AND GRID									20116420
INVISIBLE INVERTER 40	3875	3340	4665	4100	699	576	45,9÷26,3	42,5÷26,3	20069372
BOX (for recessed installation)									20025169
FRONTAL PANEL AND GRID									20116421
INVISIBLE INVERTER 46	4560	3800	5705	4860	787	648	47,2÷27,6	43,9÷27,6	20069373
BOX (for recessed installation)									20025171
FRONTAL PANEL AND GRID									20116423

Performance refer to the following conditions:





- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air flow rate measured with cleaned filters
- (5) According to UNI EN ISO 7779:2001

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

ACCESSORIES

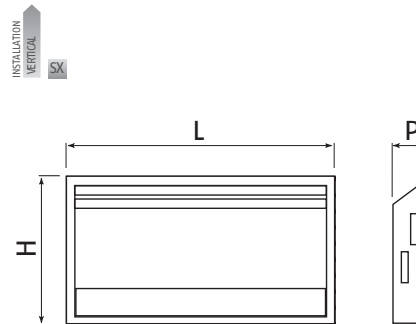
Drawing	Description	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453

- (1) Both codes are necessary for the first fan coil
- (2) It must be installed 1 piece for every remoted fan coil

Drawing	Description	Notes	Code
	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	Cables kit for right-side connections. It is compulsory for the connections reversal.		20069415

Fan coil

Invisible Inverter Plus



- Tangential fan coils with Brushless inverter motor, radiant heat plate effect of frontal panel for recessed installation in the wall (with template)

Description	H mm	L mm	P mm
INVISIBLE INVERTER PLUS 11	750	770	152
INVISIBLE INVERTER PLUS 21	750	970	152
INVISIBLE INVERTER PLUS 33	750	1170	152
INVISIBLE INVERTER PLUS 40	750	1370	152
INVISIBLE INVERTER PLUS 46	750	1570	152

INVISIBLE INVERTER PLUS is the Riello TOP of the range proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls with limited thickness, thanks to the just 14.2 cm deep box.

The INVISIBLE INVERTER PLUS front panel unites, thanks to its exclusive operating principle, the convective and ventilating effect with the radiant effect of the front panel, thereby increasing the wellness of the room. The orientation of the air expulsion wing can be adjusted manually by 160° from bottom to top to ensure optimum comfort both in heating and cooling mode.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

INVISIBLE INVERTER PLUS quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation. Thanks to the DC Brushless motors, the INVISIBLE INVERTER PLUS range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type).

The range comes in 5 models with a cooling capacity from 830 W to 4560 W and a heating capacity from 1090 W till 1090 4860 W.

- Ultra flat design
- Radiant effect in heating mode
- Wings can be completely orientated
- Ultra low-noise operation
- Ease of installation thanks to the box for recessed installation
- Just 14,2 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA

Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m ³ /h		Sound pressure irradiation max-min (5) dB(A)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
WHITE FAN COIL WITH TEMPLATE FOR RECESSED INSTALLATION IN THE WALL										
INVISIBLE INVERTER PLUS 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2	(D)	20069374
BOX (for recessed installation)										20025164
FRONTAL PANEL AND GRID										20116418
INVISIBLE INVERTER PLUS 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3	(D)	20069375
BOX (for recessed installation)										20025166
FRONTAL PANEL AND GRID										20116419
INVISIBLE INVERTER PLUS 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6	(D)	20069376
BOX (for recessed installation)										20025167
FRONTAL PANEL AND GRID										20116420
INVISIBLE INVERTER PLUS 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3	(D)	20069377
BOX (for recessed installation)										20025169
FRONTAL PANEL AND GRID										20116421
INVISIBLE INVERTER PLUS 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6	(D)	20069378
BOX (for recessed installation)										20025171
FRONTAL PANEL AND GRID										20116423

Performance refer to the following conditions:

- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air temperature 20 °C; Main fan in "off"
- (5) Air flow rate measured with cleaned filters
- (6) According to UNI EN ISO 7779:2001
- (D) Availability of the material at our warehouse: 25 working days from the order validation date.

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.

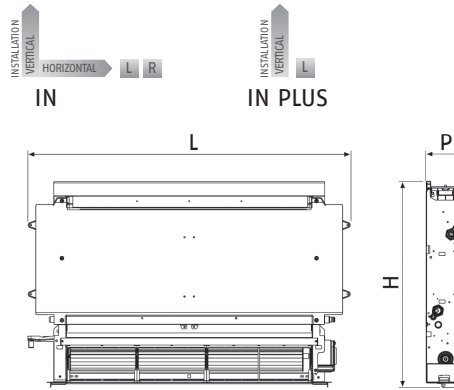
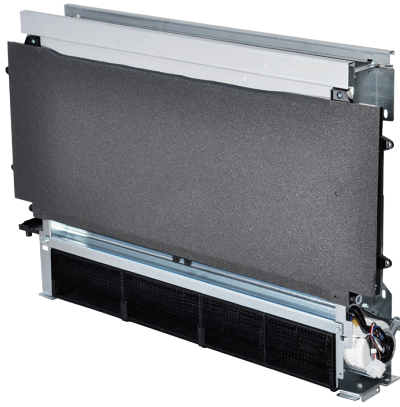
ACCESSORIES

Drawing	Description	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
	2-ways taps kit.		4013450
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452

(1) Both codes are necessary for the first fan coil
 (2) It must be installed 1 piece for every remoted fan coil

Fan coil for recessed installation

In Inverter In Inverter Plus



- Fan coils with Brushless inverter motor for recessed installation in the wall

Description	H mm	L mm	P mm
IN INVERTER 11	576	525	126
IN INVERTER 21	576	725	126
IN INVERTER 33	576	925	126
IN INVERTER 40	576	1125	126
IN INVERTER 46	576	1325	126
IN INVERTER PLUS 11	576	525	126
IN INVERTER PLUS 21	576	725	126
IN INVERTER PLUS 33	576	925	126
IN INVERTER PLUS 40	576	1125	126
IN INVERTER PLUS 46	576	1325	126

IN INVERTER is the Riello proposal for fan coils for recessed installation, allowing you to rationalise the space according to the criteria of modern interior architecture. The unit can be recessed in walls that are relatively thin, thanks to the just 12.6 cm deep box.

The entire range comes with DC Brushless Inverter motors. This technological solution provides a continuous variation from 0 to 100% of the air flow rate and as a result the heating and cooling capacity.

IN INVERTER quickly heats and cools any room; with the possibility of choosing between two dedicated functions: PERFORMANCE for commercial needs, when high efficiency and high effectiveness are required, and COMFORT for residential needs, to ensure always maximum low-noise operation.

Thanks to the DC Brushless motors, the IN INVERTER range has an electrical consumption that is 50% lower than fan coils with traditional motors (ON/OFF type). The range comes in 5 models with (PLUS model) and without radiant effect, with a cooling capacity from 830 W up to 4560 W and a heating capacity from 1090 W up to 4860 W.

The vast range of accessories and controls with DISPLAY support a wide range of applications.

All IN INVERTER versions can be installed vertically or horizontally (using a specific accessory), with standard connections on the left (on the right with the relative accessory).

The IN INVERTER PLUS versions can be installed vertically with connections on the left.

The structure is made of zinc-coated sheet metal.

- Ultra low-noise operation
- Just 12,6 cm deep
- Wide range of accessories
- Filters easy to dismount and clean

TECHNICAL DATA









Description	Power cooling 7°C-12°C (1) W		Power heating 50°C (2) W		Maximum air flow rate (4) m³/h		Sound pressure irradiation max-min (5) dB(A)		Notes	Code
	Performance	Comfort	Performance	Comfort	Performance	Comfort	Performance	Comfort		
FAN COIL FOR RECESSED INSTALLATION										
IN INVERTER 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2		20069349
IN INVERTER 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3		20069370
IN INVERTER 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6		20069371
IN INVERTER 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3		20069372
IN INVERTER 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6		20069373
FAN COIL WITH RADIANT HEAT PLATE FOR RECESSED INSTALLATION										
IN INVERTER PLUS 11	1095	830	1515	1090	197	162	42,2÷24,2	39,4÷24,2	(D)	20069374
IN INVERTER PLUS 21	2120	1760	2885	2350	389	320	43,1÷25,3	40,2÷25,3	(D)	20069375
IN INVERTER PLUS 33	3310	2650	4140	3190	560	461	45,5÷25,6	42,2÷25,6	(D)	20069376
IN INVERTER PLUS 40	3875	3340	5015	4100	699	576	45,9÷26,3	42,5÷26,3	(D)	20069377
IN INVERTER PLUS 46	4560	3800	5910	4860	787	648	47,2÷27,6	43,9÷27,6	(D)	20069378

Performance refer to the following conditions:




- (1) Room air temperature 27 °C d.b. and 19 °C w.b.
- (2) Air temperature 20 °C and the same water flow rate achieved in cooling mode
- (3) Air temperature 20 °C
- (4) Air temperature 20 °C; main fan in "off"
- (5) Air flow rate measured with cleaned filters
- (6) According to UNI EN ISO 7779:2001
- (D) Availability of the material at our warehouse: 25 working days from the order validation date.

NOTE: the performance setting is recommended for commercial spaces, while the comfort setting is recommended for residential spaces.


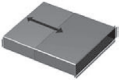

ACCESSORIES

Drawing	Description	Notes	Code
	Control panel wall mounted TOP (MASTER). TOUCH LCD wall-hung electronic control panel with room probe and ModBus RTU communication protocol. The control panel allows to manage the room temperature through its temperature probe or through the on board probe of the fan coil. The panel allows to control one or more (up to max 30) fan-coils thanks to the on board electronic for control panel wall mounted TOP.	(1)	20181383
	Electronic board for wall mounted control panel TOP (SLAVE). Electronic remoting board with continuous modulation for remote connection with the wall mounted control panel TOP. It is possible to connect max 30 electronic board with one wall mounted control panel TOP.	(1)(2)	20181395
	Control panel for recessed installation.	(1)	20147241
	Remote control interface. Electronic remoting board for 3-speed thermostat.	(1)(2)	20116481
	Remote control interface 0-10V. Electronic remoting board with input 0-10V.		20116413
	3-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fancoil from the system if combined with a control panel allowing the management. The holder valve allows to balance the head losses of the system. This kit is an alternative to the two-ways valve.		20101063
	2-ways valve kit. The kit is composed by a valve with thermo-electric head and a holder valve. The first one allows to exclude automatically the panel fan coil from the system if combined with a control panel allowing the management; the second one allows to balance the head losses of the system. This kit is compulsory in the versions Plus, except for the case when we mount the 3-ways valve or when we have a collector with thermo-electric heads.		4013453
	2-ways taps kit.		4013450

- (1) Both codes are necessary for the first fan coil
- (2) It must be installed 1 piece for every remoted fan coil.

Drawing	Description	Notes	Code
	Spacer fitting kit for 2-way valve unit for connecting the pipes to the valves with outlet on the floor and for 3-way valves unit for connecting the pipes to the valves with outlet on the wall.		20069423
	90°-connection kit, to allow an easy connection of the pipes to the valves for the exit from wall.		4013452
	Cables kit for right-side connections for IN model (not for PLUS model). It is compulsory for the connections reversal.		20069415

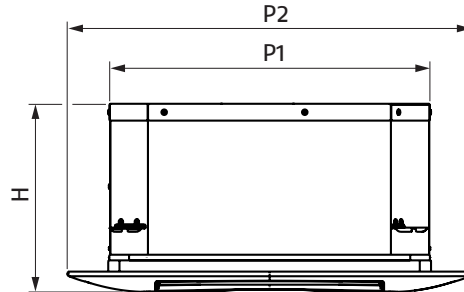
MATCHING ACCESSORIES

Drawing	Description	Size					Notes	Code
		11	21	33	40	46		
	90° air-inlet kit for recessed models IN Inverter (not for Plus models)	•					(D)	4013481
			•				(D)	4013482
				•			(D)	4013483
					•		(D)	4013484
						•	(D)	4013485
	Upper inlet kit for recessed models IN Inverter	•					(D)	4013486
			•				(D)	4013487
				•			(D)	4013488
					•		(D)	4013489
						•	(D)	4013490
	Suction kit for recessed models IN Inverter (not for Plus model)	•					(D)	4013491
			•				(D)	4013492
				•			(D)	4013493
					•		(D)	4013494
						•	(D)	4013495

(D) Availability of the material at our warehouse: 25 working days from the order validation date.

Fan coils – Cassette

RK N Hydroline



- "Cassette" fan coils

Description	H mm	L1 mm	L2 mm
RK 24 N SET	298	720	569
RK 40 N SET	298	720	569
RK 47 N SET	298	720	569
RK 63 N SET	298	960	825
RK 72 N SET	298	960	825
RK 96 N SET	298	960	825

The RK N cassette fan coil range is designed for heating and/or cooling solutions both for residential or commercial applications wherever a ceiling installation is required in order to meet specific architectural needs.

Thanks to the pleasant aesthetic, the accurate design and the 4-ways adjustable air outlet, the RK N cassette fan coils are Riello's ideal solution for any setting. For a user-friendly interface, the whole range of RK N fan coils can be matched with the wall-hung control panels of Hydrocontrol line:

- TermoComfortPlus and TermoComfort.
- Extremely low noise level
- Washable air filter
- Condensate drain pump supplied as standard
- Ease of installation
- Excellent air distribution through 4 manual wings
- Filters easy to disassemble and clean.

TECHNICAL DATA

Description		Power cooling kW	Power heating kW	Air flow rate m ³ /h	Notes	Code
RK 24 N SET	RK 24 N	2.400	3.200	660	(1)(2)	20051794
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 40 N SET	RK 40 N	4.000	5.000	735	(1)(2)	20051795
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 47 N SET	RK 47 N	4.700	6.200	900	(1)(2)	20051796
	Grid panel				(2)	4012190
	Summer/Winter automatic switch kit				(2)	4012226
RK 63 N SET	RK 63 N	6.300	8.110	980	(1)(2)	20051797
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 72 N SET	RK 72 N	7.200	10.000	1160	(1)(2)	20051798
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226
RK 96 N SET	RK 96 N	9.600	13.000	1.600	(1)(2)	20051799
	Grid panel				(2)	20051800
	Summer/Winter automatic switch kit				(2)	4012226

(*) TO PURCHASE THE COMPLETE PRODUCT, PLEASE REMEMBER TO ORDER ALL THE CODES (RK N, GRID PANEL AND SUMMER/WINTER AUTOMATIC SWITCH KIT).

(1) The fan coil must be matched with an electrovalve that manages the functioning.

(2) Accessories "Grid panel" and "Summer/Winter automatic switch kit" must be ordered together with the base unit.

Performance refer to the following conditions:

- fan speed: maximum;
- cooling: flow water 7 °C; inlet air temperature 27 °C Td.b./ 19 °C Tw.b.; (Δt 5 °C);
- heating: flow water 50 °C; inlet air temperature 20 °C Td.b; same water flow rate reached in cooling mode;
- maximum flow water 80 °C.

ACCESSORIES

Description	Code
2-pipes valve kit (24-47 models)	20035945
2-pipes valve kit (63-96 models)	20086595
Primary air kit	4012192
Air lock kit	4012225

CONTROLS

Description	Notes	Code
2 pipes "Plus" control (wall-mounted)	(1)	20081464
Air probe kit	(2)	20083816
Water probe kit		20083809
Multiple kit	(3)	20081499

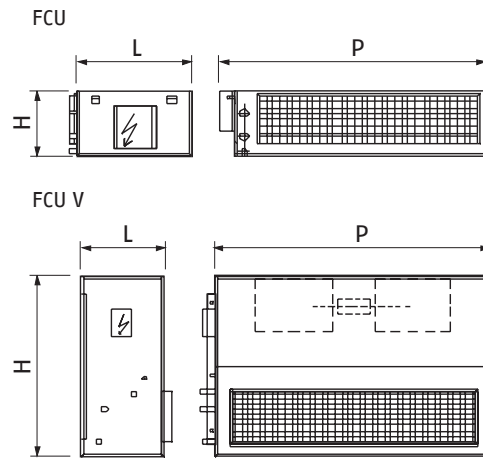
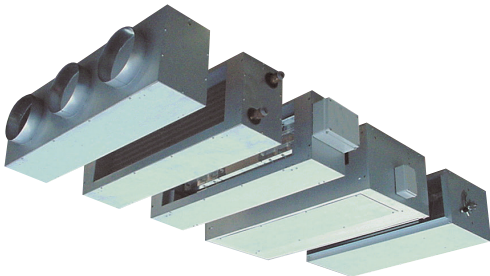
(1) Not included the water probe kit code 20083809.

(2) Sensor for remote reading.

(3) One control for each fan coil.

Ductable fan coils

FCU N



- Fan coils for horizontal and vertical installation

Description	H mm	L mm	P mm
FCU 09 N	296	520	645
FCU 15 N	296	520	1000
FCU 17 N	296	520	1000
FCU 21 N	325	600	1100
FCU 24 N	325	600	1345
FCU 36 N	375	600	1345
FCU 43 N	375	600	1345
FCU 09 V N	750	296	645
FCU 15 V N	750	296	1000
FCU 17 V N	750	296	1000
FCU 21 V N	835	325	1100
FCU 24 V N	950	325	1345
FCU 36 V N	950	375	1345
FCU 43 V N	950	375	1345

FCU duct-connected fan coils are designed to provide a preliminary air treatment both for small-sized centralized installations and for installations with fan-coils units. They are available in 7 models with an air flow rate ranging from 930 to 4.300 m³/h. The possibility to combine FCU units with a series of accessories, both on the outlet and on the intake side, makes them suitable for different uses, starting from the simple functions of cooling and/or heating up to treatments such as filtering, mixing, external air suction, re-heating both through water and electrical.

It is available in two basic versions: one for horizontal installation, having a reduced length, and one for vertical installation. These units consist of an aluzinc casing, provided with a thermal insulation layer made of polyethylene and polyester. All units are equipped with: a synthetic eff. EU3 filter, removable on guide rails, a heat-exchange coil with copper pipes and aluminium wings, a stainless steel AISI 304 condensate trap and double-suction fans with direct coupled motor. All units (except for 09 size because of its reduced electrical absorption) are also equipped with an electrical connection box with connectors protected by a relay.

- Compact dimensions
- Stainless steel AISI 304 condensate trap
- Motorized fan group, that can be inspected from the bottom
- Wide range of accessories enabling the units to be more flexible and suit different application needs.

TECHNICAL DATA

Description	Power cooling kW	Power heating kW	Maximum air loss m ³ /h	External static pressure Pa	Maximum power input W	Notes	Code
MODELS FOR HORIZONTAL INSTALLATION							
FCU 09 N	4,6	9,8	930	90	195		20095872
FCU 15 N	7,5	15,5	1.500	100	299		20095873
FCU 17 N	9,1	19,7	1.600	85	302		20095874
FCU 21 N	10,5	21,6	2.050	115	430		20095876
FCU 24 N	13,1	25,9	2.400	105	430		20095877
FCU 36 N	15,7	35,5	3.600	120	750		20095878
FCU 43 N	20,7	46,3	4.200	115	950		20095879
MODELS FOR VERTICAL INSTALLATION							
FCU 09 V N	4,6	9,8	930	90	195	(1)	20095880
FCU 15 V N	7,5	15,5	1.500	100	299	(1)	20095881
FCU 17 V N	9,1	19,7	1.600	85	302	(1)	20095882
FCU 21 V N	10,5	21,6	2.050	115	430	(1)	20095883
FCU 24 V N	13,1	25,9	2.400	105	430	(1)	20095885
FCU 36 V N	15,7	35,5	3.600	120	750	(1)	20095886
FCU 43 V N	20,7	46,3	4.200	115	950	(1)	20095887

(1) Availability of the material in our warehouse: 20 working days of receipt of the order.

Performance refer to the following conditions:

- Cooling: inlet air temperature 26 °C with 50% r.h.; flow water 7 °C (Δt 5 °C at the nominal air flow)
- Heating: inlet air temperature 20 °C with 50% r.h.; flow water 70 °C (Δt 10 °C at the nominal air flow)

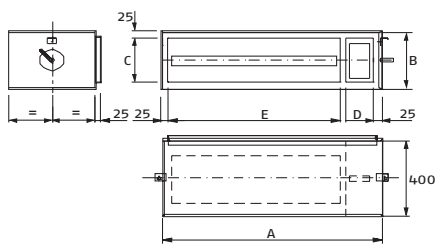
ACCESSORIES

Description	Notes	Code
CP-Basic: speed selector with OFF/cooling/heating button and 3-positions speed switch	(A)	20083633
CP-Comfort/R: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of the electrical resistance and fan speed selection (minimum, medium, maximum), for models with electrical resistance	(A)	20083635
CP-Comfort/V: Wall-hung electronic control panel for winter/summer room temperature control, activation or exclusion of water coil (0-10 V control) and fan speed selection (minimum, medium, maximum), for models with water coil	(A)	20083637

(A) The accessory cannot be ordered separately but only together with the unit. Anyway it will have to be mounted because it is not pre-installed on the product.

2-WAYS INTAKE PLENUM WITH AIR DAMPER FOR FRESH AIR

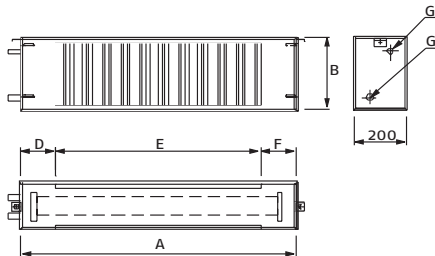
Destination	Description	Code
Model 09	Mixing chamber for FCU 09	4015937
Models 15-17	Mixing chamber for FCU 15-17	4015938
Model 21	Mixing chamber for FCU 21	4015939
Model 24	Mixing chamber for FCU 24	4015940
Models 36-43	Mixing chamber for FCU 36-43	4015941



Model	Dimensions mm				
	A	B	C	D	E
Model 09	550	278	210	90	380
Models 15-17	910	278	210	180	650
Model 21	1010	302	235	205	725
Model 24	1250	302	235	265	905
Models 36-43	1250	328	260	265	905

RE-HEATING 2 ROWS WATER COILS

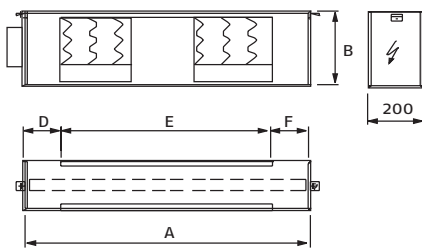
Destination	Description	Code
Model 09	Re-heating 2 rows water coils for FCU 09	4015942
Models 15-17	Re-heating 2 rows water coils for FCU 15-17	4015943
Model 21	Re-heating 2 rows water coils for FCU 21	4015944
Model 24	Re-heating 2 rows water coils for FCU 24	4015945
Models 36-43	Re-heating 2 rows water coils for FCU 36-43	4015946



Model	Power heating (inlet air temperature 20 °C)		Dimensions mm					
	kcal/h	kW	A	B	D	E	F	G
Model 09	5.850	6,8	615	296	83	440	91	3/4
Models 15-17	9.370	10,9	975	296	83	800	91	3/4
Model 21	11.610	13,5	1075	325	133	800	141	3/4
Model 24	13.760	16,0	1315	325	118	1070	126	3/4
Models 36-43	17.460	20,3	1315	375	118	1070	126	3/4

RE-HEATING ELECTRIC COIL, SINGLE STAGE (POWER SUPPLY 400V - 3 PHASES - 50HZ)

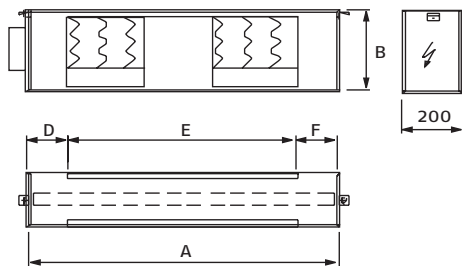
Destination	Description	Code
Model 09	Re-heating electric coil, single stage for FCU 09	4015947
Models 15-17	Re-heating electric coil, single stage for FCU 15-17	4015948
Model 21	Re-heating electric coil, single stage for FCU 21	4015949
Model 24	Re-heating electric coil, single stage for FCU 24	4015950
Models 36-43	Re-heating electric coil, single stage for FCU 36-43	4015951



Model	Power heating (inlet air temperature 20 °C)		Dimensions mm				
	kcal/h	kW	A	B	D	E	F
Model 09	2.580	3,0	614	295	83	440	91
Models 15-17	3.870	4,5	974	295	83	800	91
Model 21	3.870	4,5	1074	322	133	800	141
Model 24	5.160	6,0	1314	322	118	1070	126
Models 36-43	5.160	6,0	1314	372	118	1070	126

RE-HEATING ELECTRIC COIL, HIGH CAPACITY (POWER SUPPLY 400V - 3 PHASES - 50HZ)

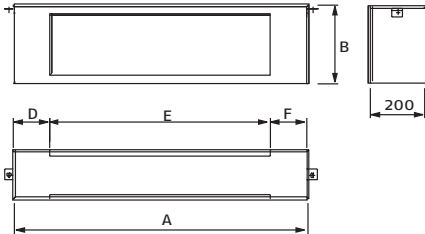
Destination	Description	Code
Model 09	Re-heating electric coil, high capacity for FCU 09	4015952
Models 15-17	Re-heating electric coil, high capacity for FCU 15-17	4015953
Model 21	Re-heating electric coil, high capacity for FCU 21	4015954
Model 24	Re-heating electric coil, high capacity for FCU 24	4015955
Models 36-43	Re-heating electric coil, high capacity for FCU 36-43	4015956



Model	Power heating (inlet air temperature 20 °C)		Dimensions mm				
	kcal/h	kW	A	B	D	E	F
Model 09	5.160	6,0	614	295	83	440	91
Models 15-17	7.740	9,0	974	295	83	800	91
Model 21	7.740	9,0	1074	322	133	800	141
Model 24	10.320	12,0	1314	322	118	1070	126
Models 36-43	10.320	12,0	1314	372	118	1070	126

OUTLET PLENUM

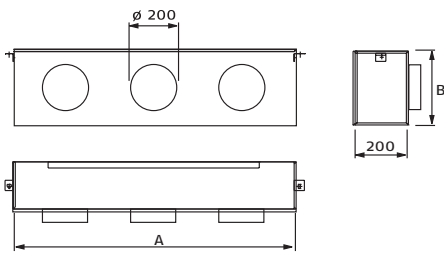
Destination	Description	Code
Model 09	Outlet plenum for FCU 09	4015957
Models 15-17	Outlet plenum for FCU 15-17	4015958
Model 21	Outlet plenum for FCU 21	4015959
Model 24	Outlet plenum for FCU 24	4015960
Models 36-43	Outlet plenum for FCU 36-43	4015961



Model	Dimensions mm				
	A	B	D	E	F
Model 09	614	295	83	440	91
Models 15-17	974	295	83	800	91
Model 21	1074	322	133	800	141
Model 24	1314	322	118	1070	126
Models 36-43	1314	372	118	1070	126

OUTLET PLENUM FOR ROUND DUCTS

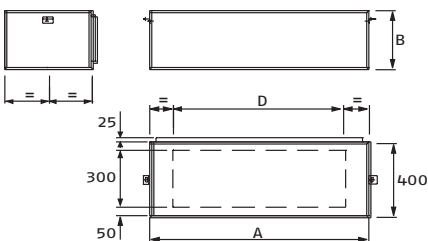
Destination	Description	Code
Model 09	Outlet plenum for round ducts for FCU 09	4015962
Models 15-17	Outlet plenum for round ducts for FCU 15-17	4015963
Model 21	Outlet plenum for round ducts for FCU 21	4015964
Model 24	Outlet plenum for round ducts for FCU 24	4015965
Models 36-43	Outlet plenum for round ducts for FCU 36-43	4015966



Model	Round ducts		Dimensions mm	
	Number	Diameter mm	A	B
Model 09	2	200	614	295
Models 15-17	3	200	974	295
Model 21	3	200	1074	322
Model 24	4	200	1314	322
Models 36-43	4	200	1314	372

INTAKE PLENUM 90°

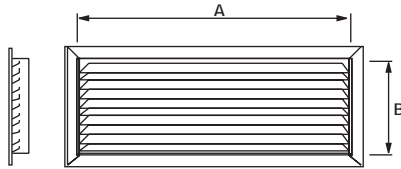
Destination	Description	Code
Model 09	Intake plenum 90° for FCU 09	4015967
Models 15-17	Intake plenum 90° for FCU 15-17	4015968
Model 21	Intake plenum 90° for FCU 21	4015969
Model 24	Intake plenum 90° for FCU 24	4015970
Models 36-43	Intake plenum 90° for FCU 36-43	4015971



Model	Dimensions mm		
	A	B	D
Model 09	550	278	500
Models 15-17	910	278	800
Model 21	1010	302	800
Model 24	1250	302	1200
Models 36-43	1250	328	1200

INTAKE GRID WITH FIXED WINGS (FOR INTAKE PLENUM)

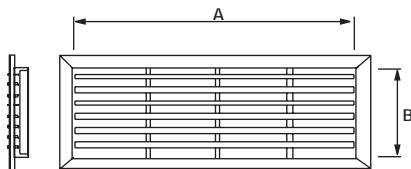
Destination	Description	Code
Model 09	Intake grid for FCU 09	4015972
Models 15-17-21	Intake grid for FCU 15-17-21	4015973
Models 24-36-43	Intake grid for FCU 24-36-43	4015974



Model	Dimensions mm	
	A	B
Model 09	500	300
Models 15-17-21	800	300
Models 24-36-43	1200	300

OUTLET GRID WITH ADJUSTABLE WINGS (FOR OUTLET PLENUM) (TO INSTALL AFTER: "OUTLET PLENUM" OR AFTER "RE-HEATING OPERATION")

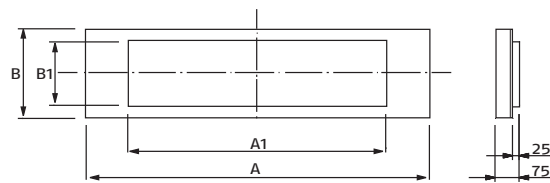
Destination	Description	Code
Model 09	Delivery grid for FCU 09	4015975
Models 15-17-21	Delivery grid for FCU 15-17-21	4015976
Models 24-36-43	Delivery grid for FCU 24-36-43	4015977



Model	Dimensions mm	
	A	B
Model 09	440	235
Models 15-17-21	800	235
Models 24-36-43	1070	280

ADAPTER FRAME FOR RECTANGULAR DUCTS

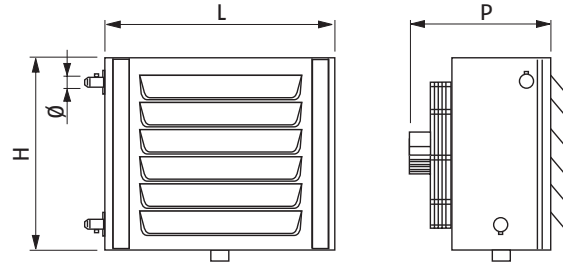
Destination	Description	Code
Model 09	Adapter frame for FCU 09	4015978
Models 15-17	Adapter frame for FCU 15-17	4015979
Model 21	Adapter frame for FCU 21	4015980
Model 24	Adapter frame for FCU 24	4015981
Models 36-43	Adapter frame for FCU 36-43	4015982



Model	Dimensions mm			
	A	A1	B	B1
Model 09	614	440	295	235
Models 15-17	974	800	295	235
Model 21	1074	800	322	235
Model 24	1314	1070	322	280
Models 36-43	1314	1070	372	280

Water hot air generators

Nuovo Acu–Nuovo Acu F



- Heating and cooling versions
- Helicoidal fan

Description	H mm	L mm	P mm	Ø mm	Net weight kg
NUOVO ACU 13 M	390	555	370	1"	15
NUOVO ACU 23 M	440	605	396	1"	18
NUOVO ACU 33 M	490	655	402	1"	21
NUOVO ACU 43 M	540	705	402	1"	24
NUOVO ACU 53 M	590	755	402	1"	28
NUOVO ACU 63 M	640	805	402	1" 1/4	32
NUOVO ACU 73 T	690	855	460	1" 1/4	43
NUOVO ACU 23 F	440	605	396	1"	18
NUOVO ACU 33 F	490	655	402	1"	21
NUOVO ACU 43 F	540	705	402	1"	24
NUOVO ACU 63 F	640	805	402	1" 1/4	32

NUOVO ACU and NUOVO ACU F are water air-heaters designed for the heating and cooling of small and medium-sized areas, such as warehouses, storehouses, laboratories, sports centres.

The NUOVO ACU consists of 3-ranks coils for applications with low temperature warm water. The NUOVO ACU F is specifically designed for cooling and consists of 3-ranks copper coils with condensate trap.

- Low noise level
- Reduced dimensions
- Coil with coupling provided with vent
- Reversible hydraulic connections
- Possibility of ceiling installation with specific accessory kit (only heating version, not for F versions)
- Available as single-phase (16 models) and three-phase (1 model)
- 10 models
- Wide range of accessories
- The range consists of 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.
- Range consists of:
 - 7 models with 3 row coils with output from 17,3 to 63 kW
 - 4 models for cooling with 3 row coils with output from 19,6 to 42,2 kW.

TECHNICAL DATA (HEATING VERSION)

Description	Power heating (*) kW	Air flow rate (**) m³/h	Motor	Nr. revs/min (***)	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS					
NUOVO ACU 13M	17,3	1.550	single-phase	1400-900-700	4152422
NUOVO ACU 23M	23,7	2.300	single-phase	1400-900-700	4152424
NUOVO ACU 33M	28,5	2.550	single-phase	1400-900-700	4152426
NUOVO ACU 43M	37,5	3.400	single-phase	1400-900-700	4152428
NUOVO ACU 53M	44,0	3.850	single-phase	1400-900-700	4152430
NUOVO ACU 63M	54,1	4.900	single-phase	1400-900-700	4152432
NUOVO ACU 73T	61,2	6.150	three-phase	900-700	4152414

(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temperature +15 °C, 50% r.h., 1013 mbar, fan at the maximum speed.

(**) Performance refer to fan at the maximum speed.

(***) The variation of revolutions number can be obtained by applying specific accessories.

TECHNICAL DATA (COOLING VERSION)

Description	Power heating (*) kW	Power cooling (**) kW	Air flow rate m³/h	Motor	Nr. revs/min	Notes	Code
WATER HOT AIR GENERATOR WITH COPPER 3 ROW COILS FOR COOLING							
NUOVO ACU 23F	19,6	10,2	1.520	single-phase	900	(D)	4152501
NUOVO ACU 33F	24,5	12,9	1.900	single-phase	900	(D)	4152502
NUOVO ACU 43F	27,9	15,1	2.000	single-phase	900	(D)	4152503
NUOVO ACU 63F	42,2	21,5	3.150	single-phase	900	(D)	4152504

(*) Performance refer to the following conditions: ΔT water 85-70 °C, inlet air temperature +15 °C, 50% r.h., 1013 mbar.

(**) Performance refer to the following conditions: ΔT water 7-12 °C, inlet air temperature +30 °C, 60% r.h., 1013 mbar.

(D) Availability of the material at our warehouse: 30 working days from the date of the order's validation.

ACCESSORIES

Description	Destination	Code
Single-phase 4-position speed regulator kit	NUOVO ACU 13÷63 M NUOVO ACU 23÷63 F	20092637
Three-phase control panel kit	NUOVO ACU 73 T	4155602
Three-phase speed manual selector kit	NUOVO ACU 73 T	4155604
Support brackets	All models	4155606
Ceiling installation kit	NUOVO ACU 13 M	4155609
Ceiling installation kit	NUOVO ACU 23 M	4155611
Ceiling installation kit	NUOVO ACU 33 M	4155613
Ceiling installation kit	NUOVO ACU 43 M	4155615
Ceiling installation kit	NUOVO ACU 53 M	4155617
Ceiling installation kit	NUOVO ACU 63 M	4155619
Ceiling installation kit	NUOVO ACU 73 T	4155620
Vertical dampers kit	NUOVO ACU 13 M	4155626
Vertical dampers kit	NUOVO ACU 23 M - 23 F	4155628
Vertical dampers kit	NUOVO ACU 33 M - 33 F	4155630
Vertical dampers kit	NUOVO ACU 43 M - 43 F	4155632
Vertical dampers kit	NUOVO ACU 53 M	4155634
Vertical dampers kit	NUOVO ACU 63 M - 63 F	4155636
Vertical dampers kit	NUOVO ACU 73 T	4155638



SYSTEM COMPLEMENTARY ITEMS

THERMOSTAT AND CHRONOTERMOSTAT 413

HEAT-EXCHANGERS 417

THERMOSTAT AND CHRONOTERMOSTAT



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING

AIR
CONDITIONING

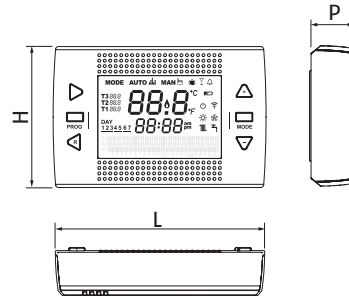
TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

Smart remote control

RiCLOUD



- Modulating control system
- Remote boiler interface
- Possibility to manage via App

Description	H mm	L mm	P mm
RiCLOUD REMOTE CONTROL	89	135	28

RiCLOUD is the simple and smart solution for the home comfort.

RiCLOUD is a universal device because it can be used as a smart control of the heating system, able to communicate directly to the boiler, in case of OTBus connection, or as a simple on-off thermostat.

It offers the function of remote boiler interface if connected to Riello boilers via OTBus.

It is possible to manage systems of up to 8 zones, each of them controlled by its own RiCLOUD, to set independently temperature and functioning.

Combined with Riello new generation boilers (compatible models with OTBus connection), through the external temperature data, RiCLOUD allows the system to reach energy efficiency class A+ (European Regulation 811/2013).






With the RiCLOUD App, available for Android and iOS systems for free, managing the home comfort and control the boiler (compatible models with OTBus connection), is easy and user-friendly. All the operations that can be annoying and complicated in a traditional thermostat, become within the reach of all thanks to the touch screen technology of the portable devices.

Installing RiCLOUD is easy and fast. In case of replacement of an old thermostat, no wirings are needed. RiCLOUD, that has battery supply, can be also "wireless": it can be placed wherever in the house and communicate via RF with the Wi-Fi box or the RF receiver (optional) connected to the boiler.

TECHNICAL DATA

Description	Code
RiCLOUD with Wi-Fi box	20117394
RiCLOUD	20117399
Wi-Fi box	20111885
RF-wireless boiler receiver	20117359
Interface board ITRF11	20164477

RANGE DESCRIPTION

Drawing	Description	Code
	<p>RiCLOUD with Wi-Fi box Complete kit for Wi-Fi operation, containing the RiCLOUD remote control and the Wi-Fi box. The package also includes batteries, cables, transformer, screws, dowels, double-sided, magnetic adhesives and installation manual. CLASS - ErP CONTRIBUTION: VI - 4% (*); I - 1% (**)</p>	<p>20117394</p>
	<p>RiCLOUD RiCLOUD room control can be used for substitutions or new installations, in case of a single zone and as zone expansion for multi-zone systems. Possible to connect to the Internet in combination with the Wi-Fi Box (available as accessory). The package also includes batteries, cables, screws, dowels, double-sided adhesives and installation manual. CLASS - ErP CONTRIBUTION: V - 3%(*); I - 1% (**)</p>	<p>20117399</p>
	<p>Wi-Fi box The Wi-Fi Box is the device that allows to connect the RiCLOUD to the home Wi-Fi. In addition, permits the OTBus connection to the boiler to work as a smart remote control. The package also includes cables, transformer and magnetic adhesive.</p>	<p>20111885</p>
	<p>RF-Wireless boiler receiver Radiofrequency device that allows the wireless connection between the RiCLOUD and the boiler (both on-off and via OTBus). It can be used also when the Wi-Fi signal is too low to place the Wi-Fi box near the boiler.</p>	<p>20117359</p>
	<p>Interface board ITRF 11 To be used according to the type of boiler in case of OTBus connection. This code is not needed in case of on-off operation.</p>	<p>20164477</p>

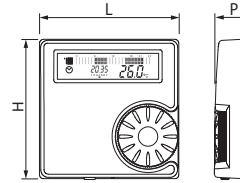
(*) Via BUS connection.
(**) In case of on-off functioning.

Thermostats and chronostats

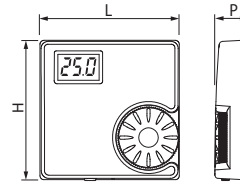
ChronoRiello



CHRONORIELLO 7D



TERMORIELLO DGT



- The ChronoRiello are digital programmable thermostats for programming both daily and weekly temperature, in heating mode and allow optimal management of the system

Description	H mm	L mm	P mm
TERMORIELLO DGT	86	86	20
TERMORIELLO DGT WIRELESS	86	86	20
CHRONORIELLO 7D	86	86	20
CHRONORIELLO 7D WIRELESS	86	86	20

TERMORIELLO DGT

Room thermostat with digital display.

TERMORIELLO DGT WIRELESS

Room thermostat with digital display.

CHRONORIELLO 7D

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze). Personalized weekly programming. Cooling function (it is necessary for this function to install an external separation relay). Party function (always warm up request and programmed time slots ignored). Daily band with time division in 60 minute segments.

CHRONORIELLO 7D WIRELESS

Digital weekly chronothermostat digital display in radio frequency.

Digital weekly programmable thermostat. Three selectable temperature levels (Comfort-Economy-Antifreeze). Personalized weekly programming. Party function (heating request always active at programmed time slots ignored). Daily band with time division in 60 minute segments.

- Simplicity of installation
- Ease of use
- Temperature selection knob on thermostat front
- Calibration probe on all models
- Series batteries on all models
- The wireless models work in radio frequency allowing the connection to the boiler without the use of electric cables
- On / off hysteresis can be calibrated on all models.

TECHNICAL DATA

Description	Type	Code
TERMORIELLO DGT	Thermostat	20059640
TERMORIELLO DGT WIRELESS	Radio frequency thermostat	20063871
CHRONORIELLO 7D	Weekly programmable thermostat	20063873
CHRONORIELLO 7D WIRELESS	Digital weekly chronothermostat digital display in radio frequency	20101747

HEAT-EXCHANGERS



HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING

AIR
CONDITIONING

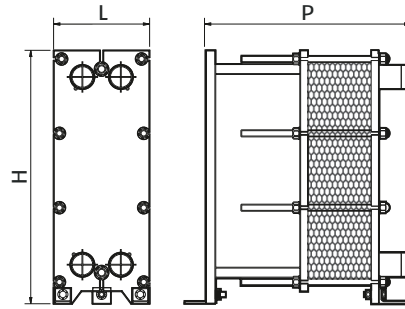
TERMINAL UNITS

SYSTEM
COMPLEMENTARY
ITEMS

HOT AIR
GENERATORS

Plate heat-exchanger

Riello HEATgate



- Plate heat-exchangers for heat generators, heat pumps and solar applications

Description	Plates Nr. from - to	H mm	L mm	P mm
SP 20	11 - 29	470	200	252
	41 - 49	470	200	352
SP 30	17 - 27	755	200	251
	37	755	200	351
	53 - 69	755	200	552
SP 35	25 - 39	950	400	408
	45 - 65	950	400	548
	75 - 93	950	400	688
	105 - 121	950	400	918
SP 40	19 - 35	819	310	418
	47 - 67	819	310	558
	75 - 99	819	310	718
SP 60	111 - 145	819	310	948
	43 - 101	1124	530	775
	117 - 167	1124	530	1275

RIELLO HEATgate is a range of inspectable plates heat-exchangers created by RIELLO to suit as many applications as possible. Its technical features make it a high-quality, long-lasting product, while ensuring the highest efficiency and reliability during the product life.

The RIELLO HEATgate range consists of heat-exchangers with plates made of stainless steel AISI316, NBR or EPDM peroxide gaskets (according to the application), and is equipped with threaded couplings made of AISI316.

The heat-exchanger structure ensure tightness up to 10 bars. The different sizes perfectly meet the thermal programmes and applications shown in the table, thus ensuring high efficiency and reduced pressure drops. Ease of maintenance thanks to the quality of materials.

TECHNICAL DATA

Description	Plates Nr.	DN	MIX (*) %	Weight kg	Kit type (**)		Code
					Insulation	Feet	
HEAT-EXCHANGER AISI 316 L, WITH EPDM PEROXIDE GASKETS FOR SOLAR APPLICATION							
SP 20 - DN32 29 (29A) E	29	DN32	100	33	KIT C1	KIT P1	20016729
SP 20 - DN32 41 (41A) E	41	DN32	100	37	KIT C2	KIT P1	20016730
SP 30 - DN32 17 (17A) E	17	DN32	100	46	KIT C3	KIT P1	20016734
SP 30 - DN32 27 (27A) E	27	DN32	100	51	KIT C3	KIT P1	20016735
SP 30 - DN32 37 (37A) E	37	DN32	100	57	KIT C4	KIT P1	20016736
SP 30 - DN32 53 (53A) E	53	DN32	100	66	KIT C5	KIT P1	20016738
SP 30 - DN32 69 (69A) E	69	DN32	100	73	KIT C5	KIT P1	20016739
SP 40 - DN65 23 (10A) E	23	DN65	45	108	KIT C6	KIT P2	20016731
SP 40 - DN65 29 (13A) E	29	DN65	45	112	KIT C6	KIT P2	20016732
SP 40 - DN65 33 (15A) E	33	DN65	45	114	KIT C6	KIT P2	20016733
PLATE HEAT-EXCHANGER AISI 316 L, WITH NBR GASKETS							
SP 20 - DN32 11 (11A) N	11	DN32	100	28	KIT C1	KIT P1	20016741
SP 20 - DN32 21 (21A) N	21	DN32	100	30	KIT C1	KIT P1	20016742
SP 20 - DN32 29 (29A) N	29	DN32	100	33	KIT C1	KIT P1	20014216
SP 20 - DN32 41 (41A) N	41	DN32	100	37	KIT C2	KIT P1	20014217
SP 20 - DN32 49 (49A) N	49	DN32	100	39	KIT C2	KIT P1	20014240
SP 35 - DN50 25 (25A) N	25	DN50	100	89	KIT C17	KIT P2	20140410
SP 35 - DN50 31 (31A) N	31	DN50	100	92	KIT C17	KIT P2	20140411
SP 35 - DN50 35 (35A) N	35	DN50	100	94	KIT C17	KIT P2	20140412
SP 35 - DN50 39 (39A) N	39	DN50	100	96	KIT C17	KIT P2	20140413
SP 35 - DN50 45 (45A) N	45	DN50	100	103	KIT C18	KIT P2	20140414
SP 35 - DN50 49 (49A) N	49	DN50	100	105	KIT C18	KIT P2	20140415
SP 35 - DN50 57 (57A) N	57	DN50	100	109	KIT C18	KIT P2	20140416
SP 35 - DN50 65 (65A) N	65	DN50	100	113	KIT C18	KIT P2	20140418
SP 35 - DN50 75 (75A) N	75	DN50	100	122	KIT C19	KIT P2	20140419
SP 35 - DN50 81 (81A) N	81	DN50	100	125	KIT C19	KIT P2	20140420
SP 35 - DN50 93 (93A) N	93	DN50	100	131	KIT C19	KIT P2	20140421
SP 35 - DN50 105 (105A) N	105	DN50	100	143	KIT C20	KIT P2	20140423
SP 35 - DN50 121 (121A) N	121	DN50	100	151	KIT C20	KIT P2	20140424
SP 40 - DN65 19 (19A) N	19	DN65	100	105	KIT C6	KIT P2	20014230
SP 40 - DN65 23 (23A) N	23	DN65	100	108	KIT C6	KIT P2	20014218
SP 40 - DN65 27 (27A) N	27	DN65	100	111	KIT C6	KIT P2	20014219
SP 40 - DN65 35 (35A) N	35	DN65	100	116	KIT C6	KIT P2	20014235
SP 40 - DN65 47 (47A) N	47	DN65	100	128	KIT C7	KIT P2	20014232
SP 40 - DN65 59 (59A) N	59	DN65	100	136	KIT C7	KIT P2	20014231
SP 40 - DN65 67 (67A) N	67	DN65	100	144	KIT C7	KIT P2	20140425
SP 40 - DN65 75 (75A) N	75	DN65	100	154	KIT C8	KIT P2	20140426
SP 40 - DN65 93 (93A) N	93	DN65	100	166	KIT C8	KIT P2	20140427
SP 40 - DN65 99 (99A) N	99	DN65	100	171	KIT C8	KIT P2	20140428
SP 40 - DN65 111 (111A) N	111	DN65	100	185	KIT C21	KIT P2	20140429
SP 40 - DN65 121 (121A) N	121	DN65	100	192	KIT C21	KIT P2	20140432
SP 40 - DN65 145 (145A) N	145	DN65	100	209	KIT C21	KIT P2	20140433
SP 60 - DN100 51 (51A) N	51	DN100	100	415	KIT C15	KIT P3	20140435
SP 60 - DN100 59 (59A) N	59	DN100	100	427	KIT C15	KIT P3	20140437
SP 60 - DN100 65 (65A) N	65	DN100	100	435	KIT C15	KIT P3	20140438
SP 60 - DN100 73 (73A) N	73	DN100	100	447	KIT C15	KIT P3	20140439
SP 60 - DN100 77 (77A) N	77	DN100	100	442	KIT C15	KIT P3	20083248
SP 60 - DN100 85 (85A) N	85	DN100	100	464	KIT C15	KIT P3	20140440
SP 60 - DN100 97 (97A) N	97	DN100	100	471	KIT C15	KIT P3	20083249
SP 60 - DN100 107 (107A) N	107	DN100	100	517	KIT C16	KIT P3	20140441
SP 60 - DN100 117 (117A) N	117	DN100	100	521	KIT C16	KIT P3	20083250
SP 60 - DN100 121 (79A) N	121	DN100	65	527	KIT C16	KIT P3	20039825
SP 60 - DN100 143 (100A) N	143	DN100	70	558	KIT C16	KIT P3	20039826
SP 60 - DN100 167 (109A) N	167	DN100	65	592	KIT C16	KIT P3	20039827

(*) % of high efficiency plates on the total
 (***) See matching table with insulation kit page 420

INSULATION KITS MATCHING TABLE

Thermoformed insulation kits to combine with the heatgate plate heat exchangers for high and low temperature applications.

Description	Insulation kit type	Exchanger type	Maximum plate nr.	Code
Insulation kit SP 20 29	KIT C1	20	29	20096860
Insulation kit SP20 49	KIT C2	20	49	20096862
Insulation kit SP30 29	KIT C3	30	29	20096863
Insulation kit SP30 49	KIT C4	30	49	20096864
Insulation kit SP30 75	KIT C5	30	75	20096865
Insulation kit SP 35 41	KIT C17	35	41	20140442
Insulation kit SP 35 71	KIT C18	35	71	20140443
Insulation kit SP 35 101	KIT C19	35	101	20140444
Insulation kit SP 35 151	KIT C20	35	151	20140445
Insulation kit SP40 41	KIT C6	40	41	20090501
Insulation kit SP40 71	KIT C7	40	71	20096867
Insulation kit SP40 101	KIT C8	40	101	20096868
Insulation kit SP40 151	KIT C21	40	151	20140446
Insulation kit SP60 101	KIT C15	60	101	20096918
Insulation kit SP60 201	KIT C16	60	201	20116198

FEET MATCHING TABLE

Description	Feet kit	Exchanger type	Code
Ground fixing kit SP 20-30	Kit P1	20-30	20120281
Ground fixing kit SP 35-40	Kit P2	40-45	20120282
Ground fixing kit SP 60	Kit P3	60	20120284

THE MATCHING WITH THE BOILERS LISTED BELOW ARE VALID FOR THE HIGH WATER CONTENT MODELS AND FOR THE ALU PRO POWER BOILERS. CONTACT THE PRE SALES DEPARTMENT FOR THE MATCHING WITH CONDEXA PRO (OLD MODELS), CONDEXA PRO 2 EVO AND CONDEXA PRO 3.

SELECTION TABLE

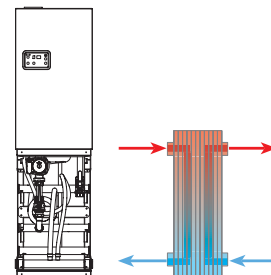
BOILER ON HIGH TEMPERATURE INSTALLATION

Installation power

kW	Code	Model
115	20014230	SP 40 - DN65 19 (19A) N
150	20014218	SP 40 - DN65 23 (23A) N
225	20014219	SP 40 - DN65 27 (27A) N
300	20014235	SP 40 - DN65 35 (35A) N
350	20014232	SP 40 - DN65 47 (47A) N
450	20014231	SP 40 - DN65 59 (59A) N
525	20014231	SP 40 - DN65 59 (59A) N
600	20140425	SP 40 - DN65 67 (67A) N
700	20140426	SP 40 - DN65 75 (75A) N
750	20140426	SP 40 - DN65 75 (75A) N
800	20140435	SP 60 - DN100 51 (51A) N
900	20140437	SP 60 - DN100 59 (59A) N
1000	20140438	SP 60 - DN100 65 (65A) N
1150	20140439	SP 60 - DN100 73 (73A) N
1250	20083248	SP 60 - DN100 77 (77A) N
1450	20140440	SP 60 - DN100 85 (85A) N

Thermal program

	Fluid	IN °C	OUT °C	Head loss (KPa)
Primary	H ₂ O	80	60	≤ 33
Secondary	H ₂ O	50	70	≤ 33



NOTE: check ever the pressure drop

CONDENSING BOILER ON LOW TEMPERATURE INSTALLATION

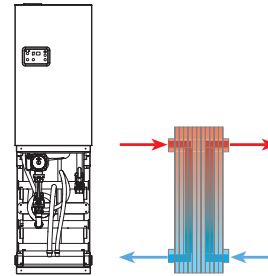
Installation power

kW	Code	Model
35	20016742	SP 20 - DN32 21 (21A) N
75	20014217	SP 20 - DN32 41 (41A) N
100	20014240	SP 20 - DN32 49 (49A) N
115	20140411	SP 35 - DN50 31 (31A) N
150	20140413	SP 35 - DN50 39 (39A) N
180	20140415	SP 35 - DN50 49 (49A) N
225	20140416	SP 35 - DN50 57 (57A) N
300	20014231	SP 40 - DN65 59 (59A) N
350	20140425	SP 40 - DN65 67 (67A) N
375	20140426	SP 40 - DN65 75 (75A) N
450	20140427	SP 40 - DN65 93 (93A) N
525	20140429	SP 40 - DN65 111 (111A) N
600	20140433	SP 40 - DN65 145 (145A) N

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (kPa)
Primary	H ₂ O	60	40	≤ 10
Secondary	H ₂ O	30	40	≤ 31



SOLAR THERMAL WITH SWIMMING POOL

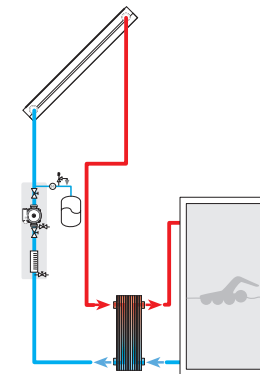
Installation power

kW	Code	Model
20	20016729	SP 20 - DN32 29 (29A) E
35	20016730	SP 20 - DN32 41 (41A) E
50	20016731	SP 40 - DN65 23 (10A) E
75	20016732	SP 40 - DN65 29 (13A) E
100	20016733	SP 40 - DN65 33 (15A) E

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (kPa)
Primary	Glyc. 30%	55	35	≤ 2
Secondary	H ₂ O	29	33	≤ 20



SOLAR THERMAL WITH PUFFER

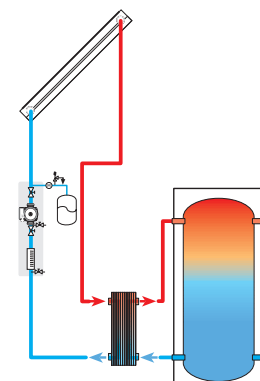
Installation power

kW	Code	Model
20	20016734	SP 30 - DN32 17 (17A) E
35	20016735	SP 30 - DN32 27 (27A) E
50	20016736	SP 30 - DN32 37 (37A) E
75	20016738	SP 30 - DN32 53 (53A) E
100	20016739	SP 30 - DN32 69 (69A) E

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (kPa)
Primary	Glyc. 30%	60	40	≤ 5
Secondary	H ₂ O	35	55	≤ 5



INSTANTANEOUS DHW PRODUCTION

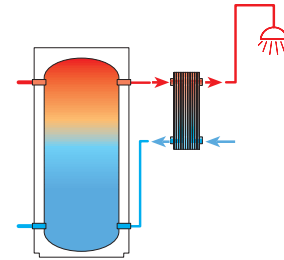
Installation power

kW	Code	Model
50	20016734	SP 30 - DN32 17 (17A) E
75	20016735	SP 30 - DN32 27 (27A) E
115	20016736	SP 30 - DN32 37 (37A) E
130	20014230	SP 40 - DN65 19 (19A) N
150	20014218	SP 40 - DN65 23 (23A) N
180	20014219	SP 40 - DN65 27 (27A) N
240	20014235	SP 40 - DN65 35 (35A) N
350	20014232	SP 40 - DN65 47 (47A) N
450	20140425	SP 40 - DN65 67 (67A) N
525	20140427	SP 40 - DN65 93 (93A) N
600	20140429	SP 40 - DN65 111 (111A) N

NOTE: check ever the pressure drop

Thermal program

	Fluid	IN °C	OUT °C	Head loss (kPa)
Primary	H ₂ O	50	30	≤ 20
Secondary	H ₂ O	10	43	≤ 20





HOT AIR GENERATORS

GAS HOT AIR GENERATORS

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GAS HOT AIR GENERATORS



INTERNAL

GAS HOT AIR GENERATORS



GP CONDENS

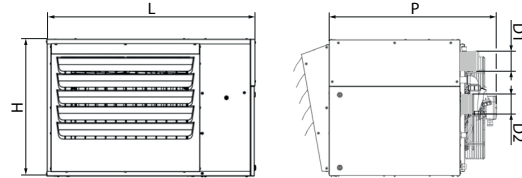
- GP CONDENS 30 (28 kW-3200 m³/h)*
- GP CONDENS 40 (37 kW-4400 m³/h)*
- GP CONDENS 50 (48 kW-5500 m³/h)*
- GP CONDENS 60 (57 kW-6500 m³/h)*
- GP CONDENS 90 (89 kW-10000 m³/h)*
- GP CONDENS 120 (115 kW-13000 m³/h)*

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(*) Max useful power at 80-60 °C

High efficiency indoor gas hot air generators

GP Condens



- Wall-mounted gas hot air generators, pre-mixed, high efficiency
- Up to 106% efficiency
- Axial fans

Description	H mm	L mm	P mm	D1 (*) mm	D2 (*) mm	Net weight kg
GP CONDENS 30	885	560	580	80	80	65
GP CONDENS 40	885	560	580	80	80	75
GP CONDENS 50	1225	610	650	80	80	90
GP CONDENS 60	1225	610	650	80	80	95
GP CONDENS 90	1775	710	800	100	100	205
GP CONDENS 120	1775	710	800	100	100	215

(*) Female.

GP Condens is the new wall-mounted gas hot air generator for the direct, diffusion, condensing pre-mixed, designed specifically to attain a high performance. The heat exchanger, made entirely out of stainless steel, provide the best possible performances and make inspection easy for normal cleaning and maintenance operations.

On the inside there is a multi-function electronic board that handles the burner's ignition operations, the flame monitoring and the overall safety.

The new remote control panel allows you to display and set the main operating parameters of the machine, carry out the hourly programming and manage installations in cascade up to 10 generators.

- Range composed of 6 models with an output of 10 to 116 kW.
- Condensate drain kit as standard.
- Possibility of fastening to the wall or the roof (new).
- Possibility of managing up to 10 GP Condens in cascade.
- Indoor and outdoor temperature probe (available as accessories) for a more efficient ambient temperature measurement.
- Wide range of accessories for flue gases discharge and suction.
- Ideal for the heating of industrial, commercial, sports areas etc.

TECHNICAL DATA

Description	Useful output kW		Furnace output kW		Air output m ³ /h nominal	Total efficiency (*) %		Notes	Code
	min	max	min	max		min	max		
GP CONDENS 30	10	28	9,4	29,1	3.200	106,5%	96,1%	(1)	20139254
GP CONDENS 40	14	37	13,3	38,5	4.400	105,1%	96,1%	(1)	20139258
GP CONDENS 50	19	48	18,4	49,8	5.500	103,2%	96,4%	(1)	20139259
GP CONDENS 60	21	57	20	59	6.500	105,1%	96,6%	(1)	20139260
GP CONDENS 90	35	89	33,3	90,8	10.000	105,2%	98,0%	(1)	20139261
GP CONDENS 120	43	115	40,6	116	13.000	106,0%	99,1%	(1)	20139262

(*) With reference to Net Calorific Value (Hi) with recovery of the latent vaporisation heat.

(1) GP Condens is combined with the remote control panel code 20139270. For cascade operation one panel is sufficient for up to a maximum of 10 heater units in series.

The gas heaters are set up to operate with methane gas and can be converted to LPg with the relative kit supplied.

The accessories for the flue gas exhaust and the air intake are not included in the supply and need to be ordered separately choosing from those on page 430.

ACCESSORIES

Description	Destination	Code
ASSEMBLY ACCESSORIES		
GP Condens 30-40 shelf	GP Condens 30-40	20032159
GP Condens 50-120 shelf	GP Condens 50-120	20139265
Remote room sensor	GP Condens	20032160
Outdoor air temperature sensor	GP Condens	20139267
Remote control panel	GP Condens	20139270
Suspended GP Condens	GP Condens	20139273

HYBRID
SYSTEMS

HEAT PUMPS

WALL-HUNG
BOILERS

FLOOR-STANDING
BOILERS

WATER-HEATERS

SOLAR THERMAL
AND CYLINDERS

CENTRALIZED
HEATING

AIR
CONDITIONING

TERMINAL UNITS

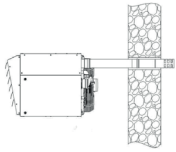
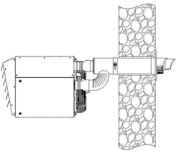
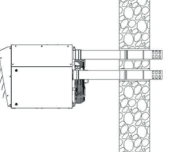
SYSTEM
COMPLEMENTARY
ITEMS

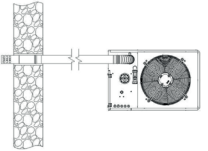
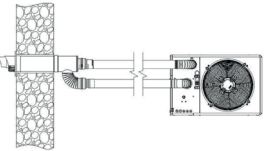
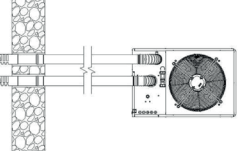
HOT AIR
GENERATORS

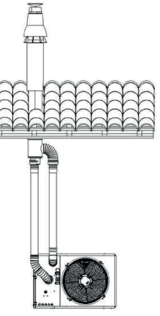
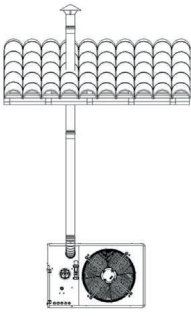
FLUE GAS EXHAUST/SUCTION LINE ACCESSORIES

Drawing	Description	Code
CONCENTRIC SYSTEM		
	100/100 concentric on wall	20032161
	Fitting Ø80/100	20139281
	100/100 concentric on roof	20139288
DOUBLE SYSTEM		
	Discharge/suction pipe Ø80 x 500 mm	20139278
	Terminal Ø80	20139279
	Terminal Ø100	20139280
	Bend Ø80	20139283
	Discharge/suction pipe Ø80 x 1000 mm	20139285
	Bend Ø80	20139287
	Roof terminal Ø80	20139289
	Discharge/suction pipe Ø100 x 1000 mm	4155552
	Discharge/suction pipe Ø100 x 500 mm	4155554
	Bend Ø100	4155556
	Bend Ø100	4155558
	Roof terminal Ø100	4155564

INSTALLATION DIAGRAMS FLUE GAS EXHAUST/SUCTION

FRONT WALL PIPES											
Description											
	20139278	20139279	4155554	20139280	20139281	20032161	20139278	20139279	4155554	20139280	
	Flue gas discharge				Flue gas exhaust/air suction concentric			Double flue gas exhaust/air suction			
GP CONDENS 30	•	•			•	•	•	•			
GP CONDENS 40	•	•			•	•	•	•			
GP CONDENS 50	•	•			•	•	•	•			
GP CONDENS 60	•	•			•	•	•	•			
GP CONDENS 90			•	•		•			•	•	
GP CONDENS 120			•	•		•			•	•	

FRONT WALL PIPES																	
Description																	
	20139283	20139278	20139285	20139279	4155556	4155554	4155552	20139280	20139283	20139278	20139285	20139281	20032161	4155556	4155554	4155552	20139280
	Flue gas discharge							Flue gas exhaust/air suction concentric						Double flue gas exhaust/air suction			
GP CONDENS 30	•	•	•	•				•	•	•	•	•	•				•
GP CONDENS 40	•	•	•	•				•	•	•	•	•	•				•
GP CONDENS 50	•	•	•	•				•	•	•	•	•	•				•
GP CONDENS 60	•	•	•	•				•	•	•	•	•	•				•
GP CONDENS 90					•	•	•	•	•	•	•	•	•	•	•	•	•
GP CONDENS 120					•	•	•	•	•	•	•	•	•	•	•	•	•

PIPES ON ROOF																			
Description																			
	20139283	20139287	20139278	20139285	20139281	20139288	4155556	4155558	4155554	4155552	20139288	20139283	20139278	20139285	20139289	4155556	4155554	4155552	4155564
	Flue gas exhaust/air suction concentric										Flue gas discharge								
GP CONDENS 30	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 40	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 50	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 60	•	•	•	•	•	•						•	•	•	•				
GP CONDENS 90							•	•	•	•	•					•	•	•	•
GP CONDENS 120							•	•	•	•	•					•	•	•	•

Certificato

Norma **ISO 9001:2015**

N° registro certificato **01 100 1917589**

Titolare del certificato: **RIELLO S.p.A**
VIA INGEGNER PILADE RIELLO, 7
37045 Legnago (VR)
Italia

Campo di applicazione: Progettazione, fabbricazione e assistenza di: bruciatori per riscaldamento residenziale e per applicazioni commerciali e industriali; caldaie murali e scaldabagni; gruppi termici, caldaie a basamento e sistemi per il riscaldamento; collettori e bollitorisolari. Commercializzazione ed assistenza di prodotti a proprio marchio per il condizionamento e la refrigerazione ; prodotti per la cogenerazione e trigenerazione; complementi di impianto; ricambi e accessori; moduli inverter e strutture per impianti fotovoltaici.

Mediante un audit è stata conseguita la dimostrazione che le prescrizioni della norma ISO 9001:2015 sono soddisfatte.

Validità: Questo certificato è valido dal 11.12.2019 fino al 10.12.2022.
Certificato da altro OdC dal 11.12.1992 al 11.12.2019

14.01.2020


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March 2021

PRODUCT CATALOGUE

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