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EXTRA-CEE PRODUCT RANGE CATALOGUE

EN


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Founded in 1970, Fondital is now the European leader in the production of aluminium radiators and a major international player in heating systems and structural aluminium components for the automotive industry.
As a pioneer in the introduction of die-cast aluminium radiators, the company has transformed the market through a consistently innovation-oriented approach. With 9 international patents and a range of high-performance solutions, Fondital combines energy efficiency, sustainability and production quality, representing the excellence of Made in Italy worldwide. Its vertically integrated production structure and a sales network spanning more than 70 countries have strengthened its global positioning.
Underlying its success is a solid industrial vision founded on sustainable innovation, with significant investments in Research & Development, the renewal of production processes, digitalisation and the valorisation of human capital. A focus on individual well-being, continuing education and workplace safety completes a corporate strategy centres around people and the environment.



Plant C1



Plant C2



Plant V1



Plant V2

WHY CHOOSE FONDITAL

We are committed to working with the maximum energy efficiency, promoting sound processes for environmental protection. We aim to be not only a **centre of expertise**, but also a **driving force** for the development of our territory, actively participating in its growth and well-being.



Our ambition is to be a leading company in creating **efficient** and **sustainable products**. We build strong and long-lasting relationships with our stakeholders, enhancing our **local roots** to become a **worldwide role model**.



Our mission is to develop both **heating systems** and **structural die castings for the Automotive sector**, using the most innovative industrial technologies to guarantee sustainable products of the finest quality.

FONDITAL WORLDWIDE

Fondital is market leader internationally. Multilingual staff and representation offices assure a constant presence on the global market, as evidence of its customer oriented vision. Fondital is constantly growing, thanks to its ability to interpret customer needs and changes, and to the ability to constantly adapt its supply to the new end market needs with process and product innovations.



Active markets

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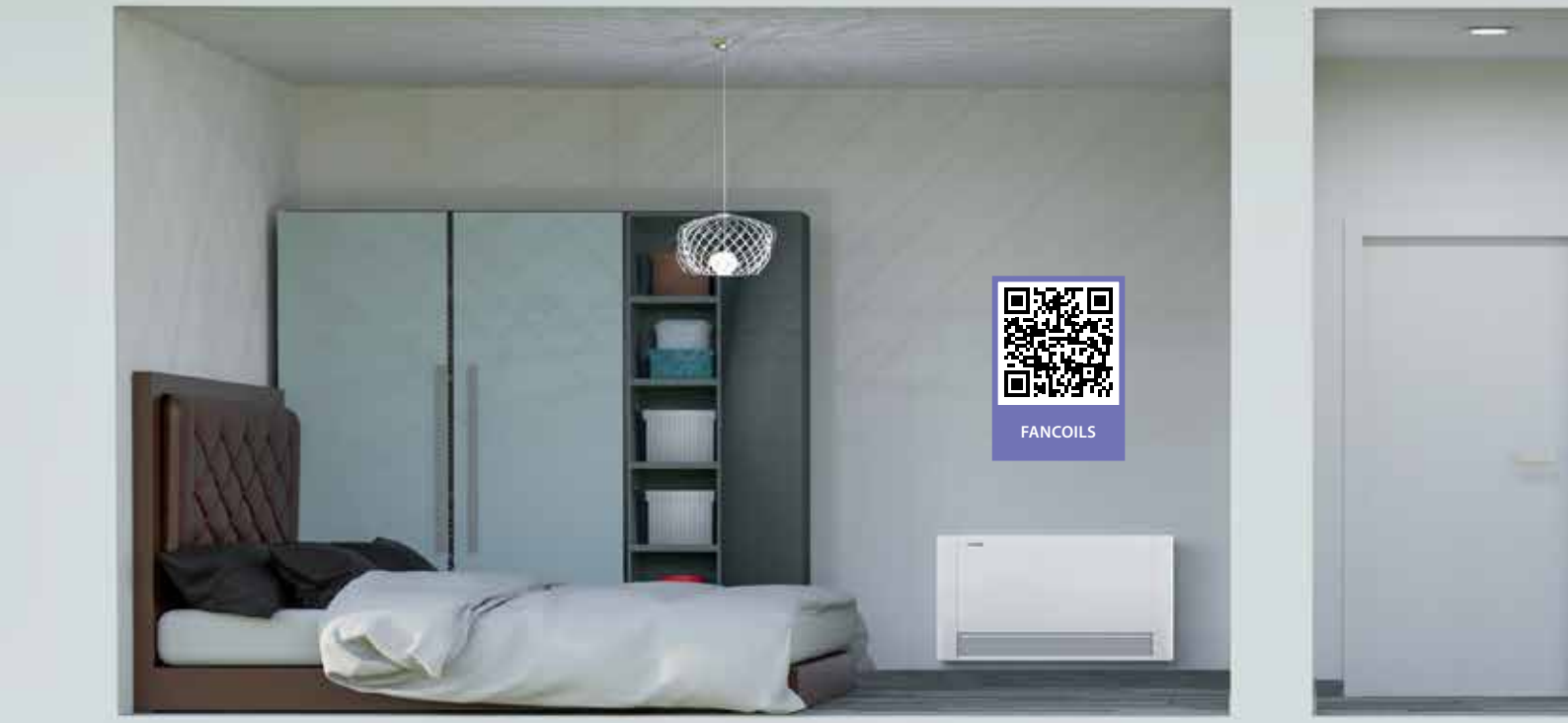
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PRODUCT RANGE









TOWEL RAIL RADIATORS

ELECTRIC RADIATORS



DIE-CAST RADIATORS

HEAT PUMPS

HEAT PUMPS

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STORAGE TANKS FOR HEAT PUMPS

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PROCIDA AWM

INVERTER AIR-TO-WATER MONOBLOC HEAT PUMP
WATER PRODUCTION FOR HEATING AND COOLING



Available in the following models:

6 8

- **CLASS A+++ for X6–X8 models (under average and low-temperature climate conditions, in accordance with EU Regulation 811/2013 and EN 14825)**
- **High COP for heating performance**
- **Touch-screen control panel with user interface provided as standard. To be installed inside the house**
- **Compact size and outdoor installation monobloc (the whole system is included in a single body, the higher power sizes are also single-fan)**
- **Reduced impact on global warming thanks to the use of R32 gas (GWP = 675)**
- **It can be combined with tanks for the production of DHW, heating elements and back-up boilers**
- **Included in the price: heat pump, control panel, water filter and tank probe**
- Integrated hydraulic unit with expansion vessel, high efficiency pump, plate exchanger, flow switch, vent and safety valve
- Twin rotary DC inverter compressor and brushless DC inverter axial fan
- Hydrophilic treated finned coil - Improved resistance to corrosion and condensation formation prevention
- Management of 3-way valve (not included) for hot water production
- Electronic expansion valve for refrigerant fluid optimisation
- Heating element on the base (prevents ice formation)
- Climate control and "Quiet" function for silent mode



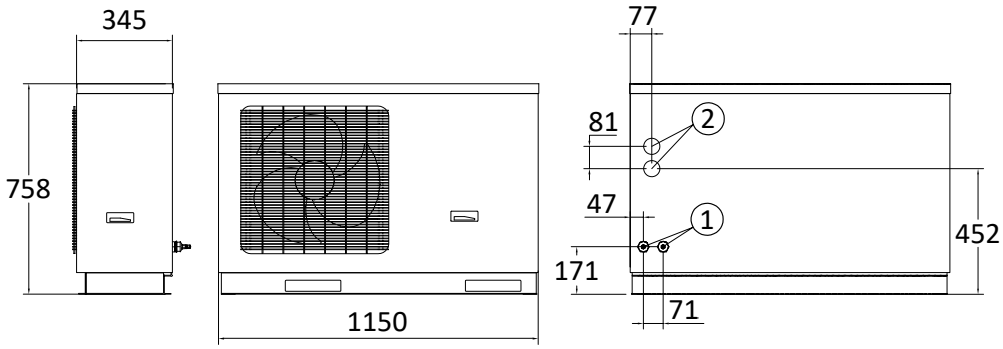
USER INTERFACE

- *Touch-screen display*
- *Management of operating modes, system components and heating integration systems, parameters setting*
- *Weekly programming by time slots*
- *Anti-legionella cycle management*

Model	Refrigerant Gas	Code	Power supply	Nominal heating capacity (1)		Seasonal energy efficiency class of ambient heating (2)		Packaging dimensions W x H x D	Gross weight
				Water T 35°C kW	Water T 55°C kW	Water T 35°C	Water T 55°C	mm	kg
AWM X6	R32	DPBXXXAW06	Single-phase	6,00	5,52	A+++	A++	1258x900x488	109
AWM X8	R32	DPBXXXAW08	Single-phase	7,50	6,90	A+++	A++	1258x900x488	109

(1) Outdoor air T 7°C dry bulb/6°C wet bulb
Inlet water T / outlet water T: 30 / 35 °C - Inlet water T / outlet water T: 50 / 55°C
According to EN 14511
(2) According to EN 14825

DIMENSIONS AND CONNECTION CENTRE DISTANCES



mod. Procida AWM X6 - X8

1 Water inlet/outlet connections

2 Electrical connections

OUTDOOR UNIT TECHNICAL DATA

Technical data	um	AWM X6	AWM X8
Dimensions (W x H x D)	mm	1150x758x345	1150x758x345
Net weight	kg	96	96
Gross weight	kg	109	109
Water inlet/outlet connection	inches	G1	G1
Refrigerant Gas	-	R32	R32
GWP	-	675	675
Refrigerant gas charge content	kg/tonnes of CO_2 eq	0,87 / 0,59	0,87 / 0,59
Sound power level, outdoors L_{WA}	dB (A)	64	65
Sound pressure (*)	dB (A)	50	51
Expansion vessel capacity	l	2	2
Safety valve pressure	bar	3	3
System water minimum content	l	40	40
System water minimum flow rate	l/min	9,2	9,2
Water nominal flow rate at water T of 35°C / 45°C	m³/h	0,69/0,69	1,25/1,24
Circulation pump - max head	m	PWM - 7.5	PWM - 7.5
Compressor	-	Twin rotary inverter	Twin rotary inverter
Variable speed fan	no.	1	1
Air flow rate	m³/h	2600	2600
Evaporator (plate exchanger)	no.	1	1
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240
Rated current	A	10,4	10,4
Electric protection rating	IP	IPX4	IPX4

(*) Under A7/W45 operating conditions and measured at a distance of 1 metre

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HEATING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 35 / 30°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,20	5,00
AWM X8	7,50	1,63	4,60

Water flow / return T: 45 / 40°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,58	3,80
AWM X8	7,50	2,00	3,75

COOLING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 18 / 23°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWM X6	5,80	1,32	4,39
AWM X8	6,80	1,55	4,39

Water flow / return T: 7 / 12°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWM X6	4,00	1,29	3,10
AWM X8	5,00	1,61	3,11

ERP PERFORMANCE - ACCORDING TO EN 14825

LOW TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 30 / 35 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWM X6	5,00	187	
AWM X8	6,00	186	

MEDIUM TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 47 / 55 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWM X6	6,00	127	
AWM X8	7,00	128	

ENERGY CONSUMPTION

Annual energy consumption Q_{he} (kWh)

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWM X6	3237	5626	2055	3733	1318	2270
AWM X8	3237	6478	2579	4256	1666	2589

SCOP according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWM X6	3,70	2,80	4,75	3,25	6,05	4,00
AWM X8	3,70	2,80	4,73	3,28	6,05	4,03

η_s according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWM X6	145%	109%	187%	127%	239%	157%
AWM X8	145%	109%	186%	128%	239%	158%

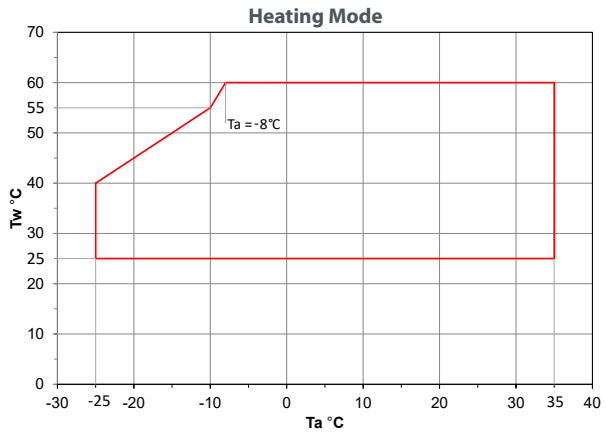
REF.	CLIMATE	TEMPERATURE	Outdoor air T °C Dry bulb (Wet bulb)	Water inlet T °C	Water outlet T °C
A	AVERAGE	LOW	7 (6)	30	35
B	AVERAGE	MEDIUM	7 (6)	47	55
C	COLDER	LOW	2 (1)	30	35
D	COLDER	MEDIUM	2 (1)	47	55
E	WARMER	LOW	14 (13)	30	35
F	WARMER	MEDIUM	14 (13)	47	55

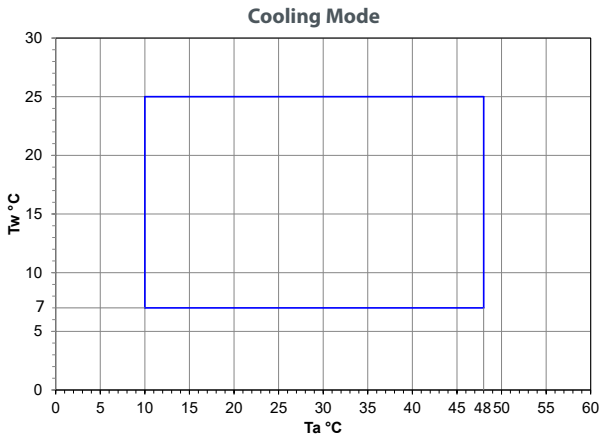
MAXIMUM OPERATING CONDITIONS

Mode	Outlet water temperature range	Air T temperature range
	°C	dry bulb °C
Heating mode	25 ÷ 60	- 25 ÷ 35
Cooling mode	7 ÷ 25	10 ÷ 48
DHW production mode with tank	40 ÷ 80 (*)	- 25 ÷ 45

(*) Tank water temperature range

OPERATION RANGE

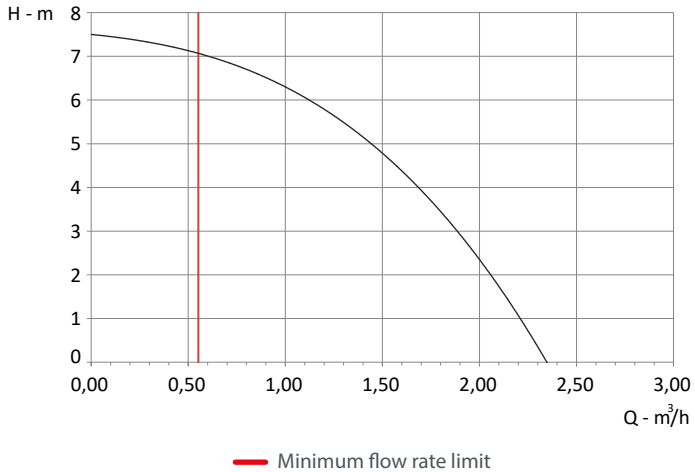




Ta = outside air temperature - Tw= outlet water temperature

AVAILABLE HEADS

PROCIDA AWM X 6 - 8



PERFORMANCE TABLES PROCIDA AWM X6

Performance data table in heating mode PROCIDA AWM X6

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	3	4,18	3,36	4,48	3,78	4,71	4,14	5,09	4,32	5,24	5,1	5,58
30	2,94	3,38	3,3	3,72	3,72	3,91	4,08	4,29	4,26	4,44	5,1	4,71
35	2,4	2,77	2,88	2,92	3,42	3,19	3,9	3,49	4,2	3,65	5,04	3,95
40	2,4	2,54	2,88	2,81	3,42	3,08	3,9	3,3	4,14	3,46	5,04	3,72
45	-	-	2,88	2,51	3,42	2,73	3,9	2,92	4,08	3,08	4,98	3,3
50	-	-	-	-	3,42	2,28	3,72	2,47	4,02	2,58	4,86	2,77
55	-	-	-	-	-	-	3,6	2,09	3,96	2,16	4,74	2,32
60	-	-	-	-	-	-	-	-	3,9	1,86	4,62	1,94

Performance data table in heating mode PROCIDA AWM X6

	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	5,88	5,85	6,24	6,04	6,54	6,34	6,02	6,91	5,96	7,22	5,41	7,59	4,75	8,13	3,7	8,39
30	5,76	5,01	6,12	5,51	6,54	5,77	6,34	6,3	6,29	6,65	5,7	6,95	5,01	7,33	3,9	7,71
35	5,7	4,1	6	4,94	6,48	5,2	6,54	5,58	6,48	5,96	5,88	6,19	5,16	6,53	4,02	6,87
40	5,7	3,87	6	4,41	6,48	4,59	6,54	5,05	6,48	5,24	5,88	5,54	5,16	5,85	4,02	6,19
45	5,7	3,46	6	3,8	6,42	3,99	6,54	4,33	6,48	4,56	5,88	4,78	5,16	5,01	4,02	5,32
50	5,58	2,89	5,76	3,27	6,3	3,42	6,34	3,72	6,29	3,91	5,7	4,1	5,01	4,33	3,9	4,56
55	5,4	2,43	5,52	2,77	6,18	2,92	6,02	3,15	5,96	3,34	5,41	3,49	4,75	3,65	3,7	3,87
60	5,28	2,09	5,28	2,35	6,06	2,47	5,69	2,7	5,64	2,85	5,12	2,96	4,49	3,11	3,5	3,3

Performance data table in cooling mode PROCIDA AWM X6

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	3,28	4,22	3,64	4,06	3,84	3,94	4,08	3,75	4,16	3,44	4	3,1	3,64	2,57	2,84	1,89	2,4	1,52
8	3,4	4,37	3,8	4,22	4	4,09	4,24	3,91	4,32	3,57	4,16	3,22	3,8	2,67	2,96	1,95	2,48	1,58
9	3,56	4,53	3,92	4,34	4,16	4,22	4,4	4	4,48	3,69	4,32	3,32	3,92	2,76	3,08	2,02	2,6	1,61
10	3,68	4,68	4,08	4,5	4,32	4,37	4,56	4,16	4,64	3,81	4,48	3,44	4,08	2,85	3,2	2,11	2,68	1,67
11	3,8	4,84	4,24	4,68	4,44	4,53	4,72	4,31	4,84	3,97	4,64	3,57	4,24	2,95	3,28	2,17	2,8	1,74
12	3,92	4,96	4,36	4,81	4,6	4,65	4,88	4,43	5	4,06	4,8	3,66	4,36	3,04	3,4	2,23	2,88	1,8
13	4,12	5,15	4,56	4,96	4,8	4,81	5,12	4,59	5,2	4,19	5	3,78	4,56	3,13	3,56	2,29	3	1,86
14	4,24	5,27	4,68	5,09	4,96	4,93	5,28	4,68	5,36	4,31	5,16	3,88	4,68	3,22	3,68	2,36	3,08	1,89
15	4,36	5,43	4,84	5,24	5,12	5,09	5,44	4,84	5,52	4,43	5,32	4	4,84	3,32	3,76	2,45	3,2	1,95
18	4,76	5,89	5,28	5,67	5,56	5,52	5,92	5,24	6,04	4,81	5,8	4,34	5,28	3,6	4,12	2,64	3,48	2,14
20	5	6,2	5,56	5,98	5,88	5,8	6,24	5,52	6,36	5,05	6,12	4,56	5,56	3,78	4,36	2,79	3,68	2,23
23	5,4	6,67	6	6,42	6,32	6,23	6,72	5,92	6,88	5,43	6,6	4,9	6	4,06	4,68	2,98	3,96	2,39
25	5,72	6,95	6,32	6,7	6,68	6,51	7,08	6,2	7,24	5,67	6,96	5,12	6,32	4,25	4,96	3,13	4,16	2,51

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

PERFORMANCE TABLES PROCIDA AWM X8

Performance data table in heating mode PROCIDA AWM X8

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	3,75	3,83	4,2	4,05	4,73	4,31	5,18	4,5	5,4	4,76	6,38	4,99
30	3,68	3,15	4,13	3,41	4,65	3,64	5,1	3,86	5,33	4,09	6,38	4,28
35	3	2,7	3,6	2,85	4,28	3,04	4,88	3,3	5,25	3,49	6,3	3,71
40	3	2,36	3,6	2,63	4,28	2,85	4,88	3,04	5,18	3,19	6,3	3,45
45	-	-	3,6	2,36	4,28	2,59	4,88	2,81	5,1	2,93	6,23	3,11
50	-	-	-	-	4,28	2,25	4,65	2,44	5,03	2,55	6,08	2,74
55	-	-	-	-	-	-	4,50	2,1	4,95	2,21	5,93	2,4
60	-	-	-	-	-	-	-	-	4,88	1,95	5,78	2,06

Performance data table in heating mode PROCIDA AWM X8

	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	7,35	5,18	7,8	5,4	8,18	5,63	7,52	6,15	7,45	6,53	6,76	6,49	5,93	7,05	4,62	7,46
30	7,2	4,5	7,65	4,99	8,18	5,29	7,93	5,66	7,86	6,04	7,13	6,04	6,26	6,53	4,87	6,98
35	7,13	3,83	7,5	4,58	8,1	4,84	8,18	5,25	8,1	5,48	7,35	5,48	6,45	6,08	5,03	6,45
40	7,13	3,64	7,5	4,16	8,1	4,39	8,18	4,76	8,1	4,99	7,35	4,95	6,45	5,48	5,03	5,85
45	7,13	3,3	7,5	3,75	8,03	3,94	8,18	4,28	8,1	4,5	7,35	4,73	6,45	4,95	5,03	5,25
50	6,98	2,85	7,2	3,34	7,88	3,49	7,93	3,83	7,86	4,01	7,13	4,2	6,26	4,39	4,87	4,69
55	6,75	2,51	6,9	2,93	7,73	3,08	7,52	3,34	7,45	3,53	6,76	3,68	5,93	3,86	4,62	4,13
60	6,6	2,18	6,6	2,59	7,58	2,66	7,11	2,85	7,05	3	6,39	3,15	5,61	3,3	4,37	3,53

Performance data table in cooling mode PROCIDA AWM X8

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	4,10	4,23	4,55	4,07	4,8	3,95	5,1	3,76	5,2	3,45	5	3,11	4,55	2,58	3,55	1,9	3	1,52
8	4,25	4,39	4,7	4,23	4,95	4,11	5,25	3,89	5,35	3,58	5,15	3,23	4,7	2,67	3,65	1,96	3,1	1,59
9	4,35	4,54	4,85	4,35	5,1	4,23	5,45	4,04	5,55	3,7	5,35	3,33	4,85	2,77	3,8	2,02	3,2	1,62
10	4,5	4,67	5	4,51	5,25	4,39	5,6	4,17	5,7	3,83	5,5	3,45	5	2,86	3,9	2,08	3,3	1,68
11	4,65	4,82	5,15	4,67	5,45	4,51	5,75	4,29	5,9	3,95	5,65	3,55	5,15	2,95	4	2,18	3,4	1,74
12	4,75	4,98	5,3	4,79	5,6	4,67	5,95	4,42	6,05	4,07	5,8	3,67	5,3	3,05	4,15	2,24	3,5	1,8
13	4,9	5,13	5,45	4,94	5,75	4,79	6,1	4,57	6,2	4,2	6	3,76	5,45	3,14	4,25	2,3	3,6	1,83
14	5,05	5,29	5,6	5,1	5,9	4,94	6,25	4,7	6,4	4,32	6,15	3,89	5,6	3,23	4,35	2,36	3,7	1,9
15	5,15	5,44	5,75	5,22	6,05	5,07	6,45	4,82	6,55	4,42	6,3	3,98	5,75	3,33	4,5	2,43	3,8	1,96
18	5,6	5,88	6,2	5,66	6,55	5,5	6,95	5,22	7,05	4,79	6,8	4,32	6,2	3,58	4,85	2,64	4,1	2,11
20	5,85	6,19	6,5	5,94	6,85	5,78	7,25	5,5	7,4	5,04	7,15	4,54	6,5	3,76	5,05	2,77	4,3	2,24
23	6,25	6,62	6,95	6,38	7,3	6,19	7,75	5,91	7,9	5,41	7,6	4,88	6,95	4,04	5,4	2,99	4,55	2,39
25	6,50	6,94	7,25	6,69	7,65	6,47	8,1	6,16	8,25	5,66	7,95	5,1	7,25	4,23	5,65	3,11	4,75	2,49

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

PROCIDA AWS

INVERTER AIR-TO-WATER SPLIT HEAT PUMP
WATER PRODUCTION FOR HEATING AND COOLING



- **CLASS A+++ (for average climate conditions and for low-temperature application, according to EU regulation 811/2013, EN 14825)**
- **High COP for heating performance**
- **Touch-screen control panel with user interface provided as standard and fitted on indoor unit**
- **The hydronic circuit is housed inside the wall-hung unit to be installed indoor**
- **Reduced impact on global warming thanks to the use of R32 gas (GWP = 675)**
- **It can be combined with water tanks for domestic hot water production (3-way valve is included in the hydraulic unit of the indoor unit)**
- **Included in the price: heat pump, control panel, water filter and tank probe**
- Integrated hydraulic unit with heating element on system side, expansion vessel, high efficiency pump, plate exchanger, flow switch, vent and safety valve
- Twin rotary DC inverter compressor and brushless DC inverter axial fan
- Hydrophilic treated finned coil - Improved resistance to corrosion and condensation formation prevention
- Electronic expansion valve for refrigerant fluid optimisation
- Heating element on the base of the outdoor unit (prevents ice formation)
- Climate control and "Quiet" function for silent mode



USER INTERFACE

- *Touch-screen display*
- *Management of operating modes, system components and heating integration systems, parameters setting*
- *Weekly programming by time slots*
- *Anti-legionella cycle management*

Available in the following models:

4 6 8 10

Model	Refrigerant Gas	Code	Description	Nominal heating capacity (1)		Seasonal energy efficiency class of ambient heating (2)		Packaging dimensions W x H x D	Gross weight
				Water T 35°C kW	Water T 55°C kW	Water T 35°C	Water T 55°C	mm	kg
AWS X4	R32	DPBXXXWS04	PROCIDA AWS 4 (O) - o. u.	4,00	3,70	A+++	A++	1028x830x458	65
		DPBXXXWU04	PROCIDA IWU 4 - i. u.					1130x565x375	71
AWS X6	R32	DPBXXXWS06	PROCIDA AWS 6 (O) - o. u.	6,00	5,90	A+++	A++	1028x830x458	65
		DPBXXXWU06	PROCIDA IWU 6 - i. u.					1130x565x375	71
AWS X8	R32	DPBXXXWS08	PROCIDA AWS 8 (O) - o. u.	8,00	7,40	A+++	A++	1097x937x478	92
		DPBXXXWU08	PROCIDA IWU 8 - i. u.					1130x565x375	71
AWS X10	R32	DPBXXXWS10	PROCIDA AWS 10 (O) - o. u.	9,50	8,70	A+++	A++	1097x937x478	92
		DPBXXXWU10	PROCIDA IWU 10 - i. u.					1130x565x375	71

o. u. = outdoor unit - i. u. = indoor unit
(1) Outdoor air T 7°C dry bulb/6°C wet bulb
Inlet water T / outlet water T: 30 / 35 °C - Inlet water T / outlet water T: 50 / 55°C
According to EN 14511
(2) According to EN 14825



PROCIDA AWS 4 - 6 outdoor unit

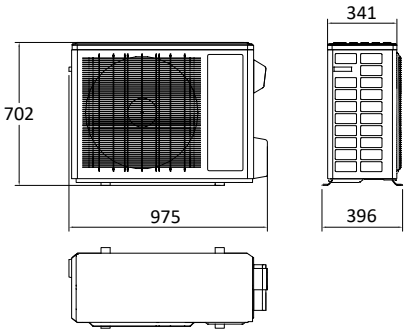


PROCIDA AWS 8 - 10 outdoor unit

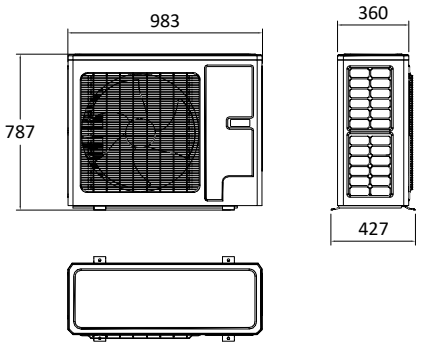


PROCIDA IWU 4- 6- 8 - 10 indoor unit

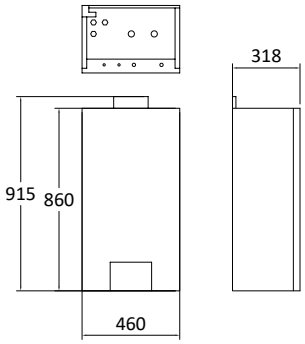
DIMENSIONS AND CONNECTION CENTRE DISTANCES



mod. Procida AWS 4 - 6 outdoor unit



mod. Procida AWS 8 - 10 outdoor unit



mod. Procida IWU 4- 6- 8 - 10 indoor unit

OUTDOOR UNIT TECHNICAL DATA

Technical data	um	Procida AWS 4 (O)	Procida AWS 6 (O)	Procida AWS 8 (O)	Procida AWS 10 (O)
Dimensions (W x H x D)	mm	975 x 702 x 396	975 x 702 x 396	983 x 787 x 427	983 x 787 x 427
Net weight	kg	55	55	82	82
Gross weight	kg	65	65	92	92
Refrigerant Gas	-	R32	R32	R32	R32
GWP	-	675	675	675	675
Refrigerant gas charge content	kg/tonnes of CO_2 eq	1,0 / 0,675	1,0 / 0,675	1,6 / 1,08	1,6 / 1,08
Sound power level, outdoors L_{WA}	dB (A)	62	62	67	68
Sound pressure (*)	dB (A)	52	52	55	55
Compressor	-	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
Variable speed fan	no.	1	1	1	1
Air flow rate	m³/h	3200	3200	3300	3300
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240	220 - 240	220 - 240
Maximum current consumption in heating mode	A	10	10	13	15
Maximum power input in heating mode	kW	2,30	2,30	3,00	3,40
Maximum current consumption in cooling mode	A	10	10	19	22
Maximum power input in cooling mode	kW	2,55	2,55	4,32	5,06
Electric protection rating	IP	IPX4	IPX4	IPX4	IPX4

(*) Under A7/W45 operating conditions and measured at a distance of 1 metre

INDOOR UNIT TECHNICAL DATA

Technical data	um	IWU 4	IWU 6	IWU 8	IWU 10
Dimensions (W x H x D)	mm	460 x 860 x 318	460 x 860 x 318	460 x 860 x 318	460 x 860 x 318
Net weight	kg	62	62	62	62
Gross weight	kg	71	71	71	71
Water inlet/outlet connection	inches	1	1	1	1
Sound power level, outdoors L_{WA}	dB (A)	42	42	42	42
Expansion vessel capacity	l	10	10	10	10
Safety valve pressure	bar	3	3	3	3
System water minimum content	l	40	40	40	80
System water minimum flow rate	l/min	9,2	9,2	9,2	9,2
Water nominal flow rate at water T of 35°C / 45°C	m³/h	0,69/0,69	1,03/1,02	1,38/1,38	1,63/1,63
Circulation pump - max head	m	High efficiency – 8m	High efficiency – 8m	High efficiency – 8m	High efficiency – 8m
Evaporator (plate exchanger)	no.	1	1	1	1
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240	220 - 240	220 - 240
Rated power input (1)	kW	3,1	3,1	6,1	6,1
Heating element	n x kW	2 x 1.5	2 x 1.5	2 x 3	2 x 3
Electric protection rating	IP	IPX1	IPX1	IPX1	IPX1

(1) The value includes the power of heating elements

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HEATING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 35 / 30°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWS X4	4,00	0,78	5,13
AWS X6	6,00	1,20	5,00
AWS X8	8,00	1,70	4,71
AWS X10	9,50	2,07	4,59

Water flow / return T: 45 / 40°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWS X4	4,00	1,02	3,92
AWS X6	5,90	1,51	3,91
AWS X8	8,00	2,14	3,74
AWS X10	9,50	2,64	3,60

COOLING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 18 / 23°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWS X4	3,80	0,82	4,63
AWS X6	5,80	1,32	4,40
AWS X8	7,00	1,75	4,00
AWS X10	8,50	2,24	3,79

Water flow / return T: 7 / 12°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWS X4	3,15	0,92	3,42
AWS X6	4,09	1,28	3,20
AWS X8	5,30	1,73	3,06
AWS X10	6,50	2,27	2,86

ERP PERFORMANCE - ACCORDING TO EN 14825

LOW TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 30 / 35 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWS X4	5,00	184	
AWS X6	6,00	179	
AWS X8	7,00	181	
AWS X10	9,00	181	

MEDIUM TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 47 / 55 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWS X4	5,00	128	
AWS X6	5,00	127	
AWS X8	7,00	129	
AWS X10	8,00	127	

ENERGY CONSUMPTION

Annual energy consumption Q_{he} (kWh)

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS X4	2663	3015	2216	3152	1509	1365
AWS X6	2674	3701	2729	3169	1136	1575
AWS X8	4628	5982	3149	4371	1947	2645
AWS X10	5201	6985	4038	5091	2183	2927

SCOP according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS X4	3,70	2,45	4,68	3,28	5,88	3,93
AWS X6	3,70	2,68	4,55	3,25	5,88	4,25
AWS X8	3,73	2,88	4,60	3,30	5,50	4,05
AWS X10	3,80	2,83	4,60	3,25	5,50	4,10

η_s according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS X4	145%	95%	184%	128%	232%	154%
AWS X6	145%	104%	179%	127%	232%	167%
AWS X8	146%	112%	181%	129%	217%	159%
AWS X10	149%	110%	181%	127%	217%	161%

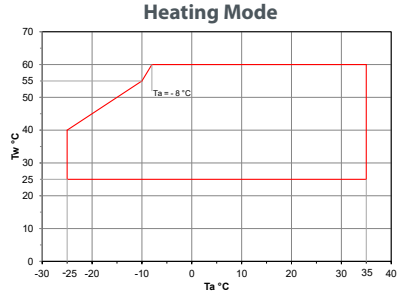
REF.	CLIMATE	TEMPERATURE	Outdoor air T °C Dry bulb (Wet bulb)	Water inlet T °C	Water outlet T °C
A	AVERAGE	LOW	7 (6)	30	35
B	AVERAGE	MEDIUM	7 (6)	47	55
C	COLDER	LOW	2 (1)	30	35
D	COLDER	MEDIUM	2 (1)	47	55
E	WARMER	LOW	14 (13)	30	35
F	WARMER	MEDIUM	14 (13)	47	55

MAXIMUM OPERATING CONDITIONS

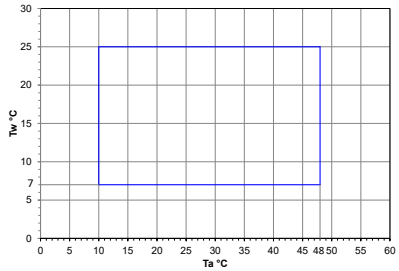
Mode	Outlet water temperature range	Air T temperature range
	°C	dry bulb °C
Heating mode	25 ÷ 60	- 25 ÷ 35
Cooling mode	7 ÷ 25	10 ÷ 48
DHW production mode with tank	40 ÷ 80 (*)	- 25 ÷ 45

OPERATION RANGE

Heating Mode



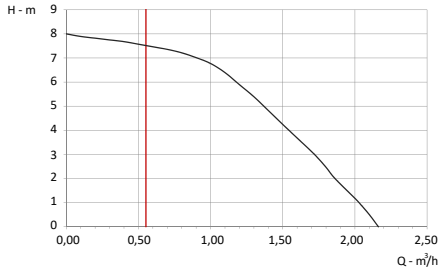
Cooling Mode



Ta = outside air temperature - Tw= outlet water temperature

AVAILABLE HEADS

PROCIDA AWS X 4 - 6 - 8 - 10



Minimum flow rate limit

PROCIDA AWS XB

INVERTER AIR-TO-WATER SPLIT HEAT PUMP WITH BUILT-IN STORAGE TANK
WATER PRODUCTION FOR HEATING, COOLING AND DHW



- **CLASS A+++ (for average climate conditions and for low-temperature application, according to EU regulation 811/2013, EN 14825)**
- **Indoor unit with 185-litre storage tank for DHW production with back-up resistor**
- **High COP for heating performance**
- **Touch-screen control panel with user interface provided as standard and fitted on indoor unit**
- **Reduced impact on global warming thanks to the use of R32 gas (GWP = 675)**
- **Included in the price: heat pump, control panel and water filter**
- Integrated hydraulic unit with expansion vessel, high efficiency pump, plate exchanger, flow switch, vent and safety valve
- Twin rotary DC inverter compressor and brushless DC inverter axial fan
- Hydrophilic treated finned coil - Improved resistance to corrosion and condensation formation prevention
- Electronic expansion valve for refrigerant fluid optimisation
- Heating element on the base of the outdoor unit (prevents ice formation)
- Climate control and "Quiet" function for silent mode



USER INTERFACE

- *Touch-screen display*
- *Management of operating modes, system components and heating integration systems, parameters setting*
- *Weekly programming by time slots*
- *Anti-legionella cycle management*

Available in the following models:

4 6 8 10

Model	Refrigerant Gas	Code	Description	Nominal heating capacity (1)		Seasonal energy efficiency class of ambient heating (2)		Packaging dimensions W x H x D	Gross weight
				Water T 35°C kW	Water T 55°C kW	Water T 35°C	Water T 55°C	mm	kg
AWS XB4	R32	DPBXXXWS04	PROCIDA AWS 4 (O) - o. u.	4,00	3,70	A+++	A++	1028x830x458	65
		DPCXXXTU04	PROCIDA ITU 4 - i. u.					683x2000x803	233
AWS XB6	R32	DPBXXXWS06	PROCIDA AWS 6 (O) - o. u.	6,00	5,90	A+++	A++	1028x830x458	65
		DPBXXXTU06	PROCIDA ITU 6 - i. u.					683x2000x803	233
AWS XB8	R32	DPBXXXWS08	PROCIDA AWS 8 (O) - o. u.	8,00	7,40	A+++	A++	1097x937x478	92
		DPBXXXTU08	PROCIDA ITU 8 - i. u.					683x2000x803	233
AWS XB10	R32	DPBXXXWS10	PROCIDA AWS 10 (O) - o. u.	9,50	8,70	A+++	A++	1097x937x478	92
		DPBXXXTU10	PROCIDA ITU 10 - i. u.					683x2000x803	233

o. u. = outdoor unit - i. u. = indoor unit
(1) Outdoor air T 7°C dry bulb/6°C wet bulb
Inlet water T / outlet water T: 30 / 35 °C - Inlet water T / outlet water T: 50 / 55°C
According to EN 14511
(2) According to EN 14825



PROCIDA AWS 4 - 6 outdoor unit

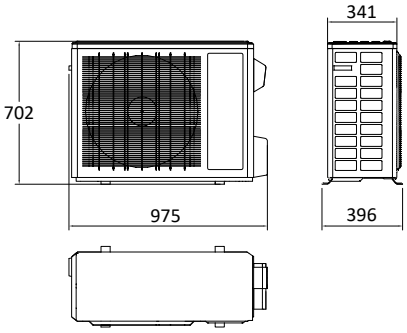


PROCIDA AWS 8 - 10 outdoor unit

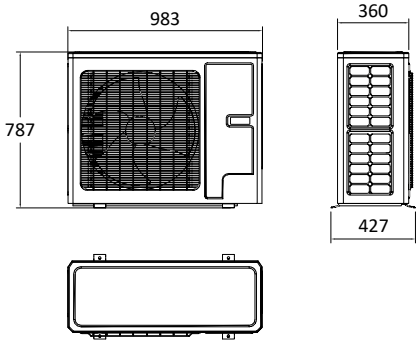


PROCIDA ITU 4- 6- 8 - 10 indoor unit

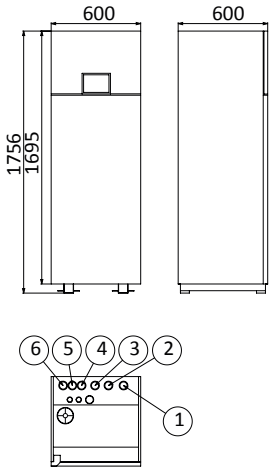
DIMENSIONS AND CONNECTION CENTRE DISTANCES



mod. Procida AWS 4 - 6 outdoor unit



mod. Procida AWS 8 - 10 outdoor unit



mod. Procida ITU 4 - 6 - 8 - 10 indoor unit with water storage tank

1 System flow (hot water)
2 System return (cold water)
3 Cold water inlet
4 DHW outlet
5 Gas circuit
6 Liquid gas circuit

OUTDOOR UNIT TECHNICAL DATA

Technical data	um	Procida AWS 4 (O)	Procida AWS 6 (O)	Procida AWS 8 (O)	Procida AWS 10 (O)
Dimensions (W x H x D)	mm	975 x 702 x 396	975 x 702 x 396	983 x 787 x 427	983 x 787 x 427
Net weight	kg	55	55	82	82
Gross weight	kg	65	65	92	92
Refrigerant Gas	-	R32	R32	R32	R32
GWP	-	675	675	675	675
Refrigerant gas charge content	kg/tonnes of CO_2 eq	1,0 / 0,675	1,0 / 0,675	1,6 / 1,08	1,6 / 1,08
Sound power level, outdoors L_{WA}	dB (A)	62	62	67	68
Sound pressure (*)	dB (A)	52	52	55	55
Compressor	-	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter	Twin rotary inverter
Variable speed fan	no.	1	1	1	1
Air flow rate	m³/h	3200	3200	3300	3300
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240	220 - 240	220 - 240
Maximum current consumption in heating mode	A	10	10	13	15
Maximum power input in heating mode	kW	2,30	2,30	3,00	3,40
Maximum current consumption in cooling mode	A	10	10	19	22
Maximum power input in cooling mode	kW	2,55	2,55	4,32	5,06
Electric protection rating	IP	IPX4	IPX4	IPX4	IPX4

(*) Under A7/W45 operating conditions and measured at a distance of 1 metre

INDOOR UNIT TECHNICAL DATA

Technical data	um	ITU 4	ITU 6	ITU 8	ITU 10
Dimensions (W x H x D)	mm	600 x 1765 x 600	600 x 1765 x 600	600 x 1765 x 600	600 x 1765 x 600
Net weight	kg	210	210	210	210
Gross weight	kg	233	233	233	233
Water inlet/outlet connection	inches	1	1	1	1
Capacity of DHW storage tank	l	185	185	185	185
Sound power level, outdoors L_{WA}	dB (A)	42	52	52	52
Expansion vessel capacity	l	10	10	10	10
Safety valve pressure	bar	3	3	3	3
System water minimum content	l	40	40	40	80
System water minimum flow rate	l/min	9,2	9,2	9,2	9,2
Water nominal flow rate at water T of 35°C / 45°C	m³/h	0,69/0,69	1,03/1,02	1,38/1,38	1,63/1,63
Circulation pump - max head	m	High efficiency – 8m	High efficiency – 8m	High efficiency – 8m	High efficiency – 8m
Evaporator (plate exchanger)	no.	1	1	1	1
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240	220 - 240	220 - 240
Rated power input (1)	kW	3,1	3,1	6,1	6,1
Heating element	n x kW	2 x 1.5	2 x 1.5	2 x 3	2 x 3
Electric protection rating	IP	IPX1	IPX1	IPX1	IPX1

(1) The value includes the power of heating elements

HEATING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 35 / 30°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWS XB4	4,00	0,78	5,13
AWS XB6	6,00	1,20	5,00
AWS XB8	8,00	1,70	4,71
AWS XB10	9,50	2,07	4,59

Water flow / return T: 45 / 40°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWS XB4	4,00	1,02	3,92
AWS XB6	5,90	1,51	3,91
AWS XB8	8,00	2,14	3,74
AWS XB10	9,50	2,64	3,60

COOLING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 18 / 23°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWS XB4	3,80	0,82	4,63
AWS XB6	5,80	1,32	4,40
AWS XB8	7,00	1,75	4,00
AWS XB10	8,50	2,24	3,79

Water flow / return T: 7 / 12°C
Outdoor air T 35°C dry bulb

Model	Nominal cooling capacity	Nominal electric power input	EER
	kW	kW	
AWS XB4	3,15	0,92	3,42
AWS XB6	4,09	1,28	3,20
AWS XB8	5,30	1,73	3,06
AWS XB10	6,50	2,27	2,86

ERP PERFORMANCE - ACCORDING TO EN 14825

LOW TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 30 / 35 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWS XB4	5,00	184	
AWS XB6	6,00	179	
AWS XB8	7,00	181	
AWS XB10	9,00	181	

MEDIUM TEMPERATURE - AVERAGE CLIMATE CONDITIONS
Inlet water T / outlet water T: 47 / 55 °C - Outdoor air T 7°C dry bulb/6°C wet bulb

Model	Heating load - $P_{designh}$	Seasonal energy efficiency - η_s	Energy efficiency class
	kW	%	
AWS XB4	5,00	128	
AWS XB6	5,00	127	
AWS XB8	7,00	129	
AWS XB10	8,00	127	

HOT WATER PRODUCTION ERP PERFORMANCE DATA - ACCORDING TO EN 16147

AVERAGE CLIMATE CONDITIONS Outdoor air T 7°C d.b. / 6°C w.b. d.b. = dry bulb / w.b. = wet bulb	Load profile	ηwh Water heating efficiency	COPdhw	Energy efficiency class
		%		
AWS XB4	L	101	2,31	A
AWS XB6	L	101	2,31	A
AWS XB8	L	89	2,10	A
AWS XB10	L	89	2,10	A

ENERGY CONSUMPTION

Annual energy consumption Q_{he} (kWh)

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS XB4	2663	3015	2216	3152	1509	1365
AWS XB6	2674	3701	2729	3169	1136	1575
AWS XB8	4628	5982	3149	4371	1947	2645
AWS XB10	5201	6985	4038	5091	2183	2927

SCOP according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS XB4	3,70	2,45	4,68	3,28	5,88	3,93
AWS XB6	3,70	2,68	4,55	3,25	5,88	4,25
AWS XB8	3,73	2,88	4,60	3,30	5,50	4,05
AWS XB10	3,80	2,83	4,60	3,25	5,50	4,10

η_s according to EN 14825

Model	Colder climate conditions		Average climate conditions		Warmer climate conditions	
	low T (C)	medium T (D)	low T (A)	medium T (B)	low T (E)	medium T (F)
AWS XB4	145%	95%	184%	128%	232%	154%
AWS XB6	145%	104%	179%	127%	232%	167%
AWS XB8	146%	112%	181%	129%	217%	159%
AWS XB10	149%	110%	181%	127%	217%	161%

REF.	CLIMATE	TEMPERATURE	Outdoor air T °C Dry bulb (Wet bulb)	Water inlet T °C	Water outlet T °C
A	AVERAGE	LOW	7 (6)	30	35
B	AVERAGE	MEDIUM	7 (6)	47	55
C	COLDER	LOW	2 (1)	30	35
D	COLDER	MEDIUM	2 (1)	47	55
E	WARMER	LOW	14 (13)	30	35
F	WARMER	MEDIUM	14 (13)	47	55

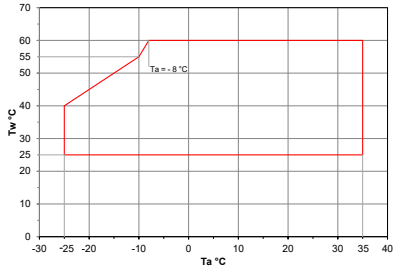
Mode	Outlet water temperature range	Air T temperature range
	°C	dry bulb °C
Heating mode	25 ÷ 60	- 25 ÷ 35
Cooling mode	7 ÷ 25	10 ÷ 48
DHW production mode with tank	40 ÷ 80 (*)	- 25 ÷ 45

(*) Tank water temperature range

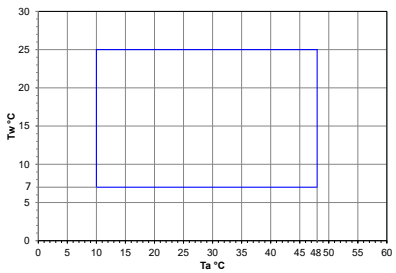
MAXIMUM OPERATING CONDITIONS

OPERATION RANGE

Heating Mode



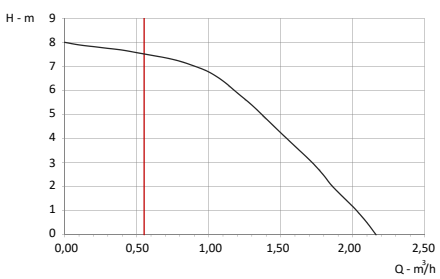
Cooling Mode



Ta = outside air temperature - Tw= outlet water temperature

AVAILABLE HEADS

PROCIDA AWS XB4 - XB6 - XB8 - XB10



Minimum flow rate limit

fondital

PERFORMANCE TABLES PROCIDA AWS X4 - PROCIDA AWS XB4

Performance data table in heating mode PROCIDA AWS X4 - PROCIDA AWS XB4

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	1,72	4,51	2,08	4,78	2,48	5,06	2,84	5,29	3,04	5,61	3,4	5,88
30	1,68	3,65	2,04	3,96	2,4	4,2	2,76	4,47	2,96	4,71	3,28	4,94
35	1,64	3,02	1,92	3,22	2,24	3,41	2,6	3,69	2,8	3,92	3,12	4,16
40	1,64	2,59	1,92	2,86	2,24	3,1	2,6	3,33	2,8	3,49	3,12	3,76
45	-	-	1,92	2,47	2,24	2,71	2,6	2,94	2,8	3,06	3,12	3,25
50	-	-	-	-	2,16	2,24	2,52	2,43	2,72	2,55	3,04	2,75
55	-	-	-	-	-	-	2,40	1,96	2,56	2,04	2,88	2,24
60	-	-	-	-	-	-	-	-	2,44	1,61	2,72	1,69

Performance data table in heating mode PROCIDA AWS X4 - PROCIDA AWS XB4

	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	3,76	6,08	3,68	6,35	3,8	6,63	4	7,25	3,96	7,69	3,6	7,65	3,16	8,31	2,48	8,78
30	3,64	5,22	3,88	5,76	4	6,12	4,24	6,55	4,2	6,98	3,8	6,98	3,32	7,53	2,6	8,08
35	3,4	4,27	4	5,14	4,12	5,41	4,36	5,88	4,32	6,16	3,92	6,16	3,44	6,82	2,68	7,25
40	3,4	3,96	4	4,55	4,12	4,78	4,36	5,22	4,32	5,45	3,92	5,41	3,44	6	2,68	6,39
45	3,4	3,45	4	3,92	4,12	4,12	4,36	4,47	4,32	4,71	3,92	4,94	3,44	5,18	2,68	5,49
50	3,28	2,86	3,88	3,33	4	3,49	4,24	3,8	4,2	4	3,8	4,2	3,32	4,39	2,6	4,67
55	3,12	2,31	3,68	2,71	3,8	2,82	4	3,1	3,96	3,25	3,6	3,41	3,16	3,57	2,48	3,8
60	2,96	1,76	3,48	2,12	3,6	2,2	3,8	2,31	3,76	2,47	3,4	2,59	3	2,71	2,32	2,9

Performance data table in cooling mode PROCIDA AWS X4 - PROCIDA AWS XB4

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	2,58	4,66	2,87	4,49	3,02	4,35	3,21	4,14	3,28	3,8	3,15	3,42	2,87	2,84	2,24	2,09	1,89	1,68
8	2,65	4,79	2,93	4,62	3,09	4,49	3,28	4,28	3,34	3,9	3,21	3,53	2,93	2,91	2,27	2,16	1,92	1,75
9	2,68	4,96	2,99	4,76	3,15	4,62	3,34	4,42	3,4	4,04	3,28	3,63	2,99	3,05	2,33	2,23	1,95	1,78
10	2,74	5,1	3,02	4,9	3,21	4,76	3,4	4,52	3,47	4,14	3,34	3,77	3,02	3,12	2,36	2,29	1,98	1,81
11	2,77	5,24	3,09	5,07	3,28	4,9	3,47	4,66	3,53	4,28	3,4	3,87	3,09	3,18	2,39	2,36	2,05	1,88
12	2,84	5,41	3,15	5,2	3,34	5,03	3,53	4,79	3,56	4,42	3,47	3,97	3,15	3,29	2,46	2,43	2,08	1,92
13	2,87	5,55	3,21	5,34	3,37	5,17	3,56	4,93	3,65	4,55	3,5	4,07	3,21	3,39	2,49	2,5	2,11	1,99
14	2,93	5,72	3,24	5,48	3,43	5,31	3,62	5,07	3,72	4,66	3,56	4,18	3,24	3,46	2,52	2,53	2,14	2,05
15	2,96	5,82	3,31	5,65	3,47	5,44	3,69	5,2	3,78	4,76	3,62	4,28	3,31	3,56	2,58	2,64	2,17	2,09
18	3,12	6,27	3,5	6,06	3,65	5,85	3,91	5,62	3,97	5,14	3,81	4,62	3,5	3,83	2,71	2,84	2,27	2,29
20	3,21	6,57	3,56	6,37	3,78	6,16	4,03	5,89	4,1	5,38	3,94	4,83	3,56	4,04	2,8	2,98	2,36	2,4
23	3,37	7,02	3,72	6,78	3,94	6,54	4,19	6,27	4,28	5,75	4,13	5,17	3,72	4,31	2,93	3,15	2,46	2,53
25	3,47	7,33	3,84	7,05	4,06	6,85	4,32	6,51	4,41	5,99	4,22	5,38	3,84	4,45	2,99	3,29	2,52	2,64

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

PERFORMANCE TABLES PROCIDA AWS X6 - PROCIDA AWS XB6

Performance data table in heating mode PROCIDA AWS X6 - PROCIDA AWS XB6

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	2,94	4,34	3,12	4,57	3,72	4,88	4,26	5,08	5,16	5,39	5,76	5,63
30	2,7	3,52	3,06	3,79	3,6	4,06	4,14	4,3	4,74	4,53	5,22	4,77
35	2,52	2,97	2,88	3,13	3,36	3,32	3,9	3,59	4,26	3,83	4,8	4,06
40	2,46	2,54	2,88	2,81	3,36	3,05	3,9	3,24	4,26	3,4	4,74	3,67
45	-	-	2,88	2,46	3,36	2,7	3,9	2,93	4,2	3,05	4,68	3,24
50	-	-	-	-	3,24	2,27	3,78	2,46	4,14	2,58	4,62	2,77
55	-	-	-	-	-	-	3,60	2,03	4,14	2,11	4,56	2,31
60	-	-	-	-	-	-	-	-	4,08	1,72	4,56	1,8

Performance data table in heating mode PROCIDA AWS X6 - PROCIDA AWS XB6

	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	6,36	5,86	6,24	6,1	6,42	6,37	6,78	6,95	6,72	7,38	6,12	7,31	5,34	7,97	4,2	8,44
30	5,82	5	6,18	5,55	6,36	5,9	6,72	6,29	6,66	6,72	6,06	6,72	5,34	7,27	4,14	7,78
35	5,22	4,18	6	5	6,3	5,27	6,66	5,74	6,6	5,98	6	5,98	5,28	6,64	4,08	7,03
40	5,16	3,91	6	4,45	6,24	4,69	6,6	5,08	6,54	5,35	5,94	5,31	5,22	5,86	4,08	6,25
45	5,1	3,44	6	3,91	6,18	4,1	6,54	4,45	6,48	4,69	5,88	4,92	5,16	5,16	4,02	5,47
50	5,04	2,85	5,94	3,36	6,12	3,52	6,48	3,87	6,42	4,02	5,82	4,22	5,1	4,42	3,96	4,73
55	4,98	2,42	5,88	2,81	6,06	2,97	6,42	3,2	6,36	3,4	5,76	3,52	5,04	3,71	3,96	3,99
60	4,92	1,91	5,82	2,27	6	2,34	6,36	2,5	6,3	2,62	5,7	2,77	4,98	2,89	3,9	3,09

Performance data table in cooling mode PROCIDA AWS X6 - PROCIDA AWS XB6

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	3,35	4,35	3,72	4,19	3,93	4,06	4,17	3,87	4,25	3,55	4,09	3,2	3,72	2,65	2,9	1,95	2,45	1,57
8	3,48	4,47	3,89	4,31	4,09	4,19	4,34	3,99	4,42	3,64	4,25	3,29	3,89	2,75	3,03	2,01	2,54	1,63
9	3,64	4,67	4,01	4,47	4,21	4,35	4,46	4,12	4,54	3,8	4,38	3,42	4,01	2,84	3,15	2,08	2,66	1,66
10	3,72	4,79	4,13	4,6	4,38	4,47	4,62	4,25	4,7	3,9	4,54	3,51	4,13	2,91	3,23	2,17	2,74	1,73
11	3,84	4,92	4,29	4,76	4,5	4,6	4,79	4,41	4,91	4,06	4,7	3,64	4,29	3	3,31	2,2	2,82	1,76
12	3,97	5,08	4,42	4,92	4,66	4,76	4,95	4,54	5,07	4,15	4,87	3,74	4,42	3,1	3,44	2,3	2,9	1,85
13	4,13	5,24	4,58	5,05	4,79	4,89	5,11	4,67	5,19	4,28	4,99	3,87	4,58	3,2	3,56	2,33	2,99	1,89
14	4,25	5,4	4,66	5,21	4,95	5,05	5,28	4,79	5,36	4,41	5,15	3,96	4,66	3,29	3,68	2,43	3,07	1,95
15	4,34	5,53	4,83	5,34	5,11	5,18	5,44	4,92	5,52	4,51	5,32	4,09	4,83	3,39	3,76	2,49	3,19	1,98
18	4,74	5,98	5,24	5,75	5,52	5,59	5,89	5,34	6,01	4,89	5,77	4,41	5,24	3,64	4,09	2,68	3,48	2,17
20	4,95	6,29	5,52	6,07	5,85	5,88	6,18	5,59	6,3	5,14	6,05	4,63	5,52	3,83	4,34	2,84	3,64	2,27
23	5,36	6,74	5,93	6,49	6,26	6,33	6,67	6,01	6,79	5,5	6,54	4,95	5,93	4,12	4,62	3	3,93	2,43
25	5,60	7,03	6,22	6,77	6,54	6,58	6,95	6,29	7,12	5,75	6,83	5,18	6,22	4,31	4,87	3,16	4,09	2,56

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

PERFORMANCE TABLES PROCIDA AWS X8 - PROCIDA AWS XB8

Performance data table in heating mode PROCIDA AWS X8 - PROCIDA AWS XB8

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	3,44	4,04	4,16	4,26	4,96	4,56	5,68	4,75	6,08	5,05	6,8	5,27
30	3,36	3,29	4,08	3,59	4,8	3,81	5,52	4,04	5,92	4,26	6,56	4,49
35	3,28	2,77	3,84	2,92	4,48	3,1	5,2	3,4	5,6	3,59	6,24	3,81
40	3,28	2,39	3,84	2,65	4,48	2,92	5,2	3,1	5,6	3,25	6,24	3,51
45	-	-	3,84	2,36	4,48	2,58	5,2	2,8	5,6	2,92	6,24	3,1
50	-	-	-	-	4,32	2,21	5,04	2,39	5,44	2,5	6,08	2,69
55	-	-	-	-	-	-	4,80	1,98	5,12	2,09	5,76	2,28
60	-	-	-	-	-	-	-	-	4,88	1,72	5,44	1,79

Performance data table in heating mode PROCIDA AWS X8 - PROCIDA AWS XB8

	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	7,52	5,46	7,36	5,72	7,6	5,94	8	6,5	7,92	6,88	7,2	6,84	6,32	7,44	4,96	7,89
30	7,28	4,71	7,76	5,23	8	5,53	8,48	5,94	8,4	6,32	7,6	6,32	6,64	6,84	5,2	7,29
35	6,8	3,93	8	4,71	8,24	4,97	8,72	5,38	8,64	5,61	7,84	5,61	6,88	6,24	5,36	6,62
40	6,8	3,7	8	4,22	8,24	4,45	8,72	4,86	8,64	5,08	7,84	5,05	6,88	5,57	5,36	5,94
45	6,8	3,29	8	3,74	8,24	3,93	8,72	4,26	8,64	4,49	7,84	4,71	6,88	4,93	5,36	5,23
50	6,56	2,77	7,76	3,25	8	3,4	8,48	3,74	8,4	3,93	7,6	4,11	6,64	4,3	5,2	4,6
55	6,24	2,39	7,36	2,77	7,6	2,92	8	3,18	7,92	3,33	7,2	3,48	6,32	3,66	4,96	3,93
60	5,92	1,91	6,96	2,28	7,2	2,32	7,6	2,5	7,52	2,62	6,8	2,77	6	2,88	4,64	3,1

Performance data table in cooling mode PROCIDA AWS X8 - PROCIDA AWS XB8

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	4,35	4,17	4,82	4,01	5,09	3,89	5,41	3,71	5,51	3,4	5,3	3,06	4,82	2,54	3,76	1,87	3,18	1,5
8	4,51	4,26	4,98	4,11	5,25	4,01	5,57	3,8	6,04	3,49	5,46	3,16	4,98	2,6	3,87	1,9	3,29	1,53
9	4,56	4,41	5,09	4,23	5,35	4,11	5,72	3,92	6,2	3,58	5,62	3,25	5,09	2,7	3,98	1,96	3,34	1,56
10	4,72	4,5	5,25	4,35	5,51	4,23	5,88	4,01	6,36	3,68	5,78	3,31	5,25	2,76	4,08	1,99	3,45	1,62
11	4,88	4,63	5,41	4,47	5,72	4,35	6,04	4,14	6,57	3,8	5,94	3,4	5,41	2,85	4,19	2,08	3,55	1,68
12	4,98	4,75	5,57	4,56	5,88	4,44	6,25	4,2	6,73	3,89	6,1	3,49	5,57	2,91	4,35	2,14	3,66	1,72
13	5,09	4,87	5,67	4,72	5,99	4,56	6,31	4,35	6,89	3,98	6,2	3,58	5,67	3	4,4	2,18	3,71	1,75
14	5,25	4,99	5,83	4,81	6,1	4,66	6,47	4,44	7,05	4,07	6,36	3,68	5,83	3,06	4,51	2,24	3,82	1,78
15	5,35	5,15	5,99	4,93	6,25	4,78	6,68	4,53	7,21	4,17	6,52	3,77	5,99	3,12	4,66	2,3	3,92	1,84
18	5,78	5,45	6,36	5,27	6,73	5,12	7,16	4,84	7,69	4,44	7	4,01	6,36	3,31	4,98	2,45	4,24	1,96
20	5,99	5,7	6,63	5,48	7	5,33	7,42	5,09	8,06	4,66	7,31	4,2	6,63	3,46	5,14	2,54	4,4	2,05
23	6,41	6,04	7,1	5,79	7,47	5,64	7,9	5,39	8,53	4,93	7,79	4,44	7,1	3,68	5,51	2,73	4,66	2,18
25	6,63	6,28	7,37	6,07	7,79	5,85	8,22	5,58	8,85	5,12	8,06	4,63	7,37	3,83	5,72	2,82	4,82	2,27

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

PERFORMANCE TABLES PROCIDA AWS X10 - PROCIDA AWS XB10

Performance data table in heating mode PROCIDA AWS X10 - PROCIDA AWS XB10

	Ta °C - DB											
	-25		-20		-15		-10		-7		-2	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	4,09	3,99	4,94	4,21	5,89	4,5	6,75	4,68	7,22	4,97	8,08	5,18
30	3,99	3,24	4,85	3,49	5,7	3,74	6,56	3,96	7,03	4,17	7,79	4,39
35	3,90	2,73	4,56	2,88	5,32	3,06	6,18	3,31	6,65	3,53	7,41	3,74
40	3,90	2,34	4,56	2,59	5,32	2,81	6,18	2,99	6,65	3,13	7,41	3,38
45	-	-	4,56	2,27	5,32	2,48	6,18	2,7	6,65	2,81	7,41	2,99
50	-	-	-	-	5,13	2,09	5,99	2,27	6,46	2,38	7,22	2,55
55	-	-	-	-	-	-	5,70	1,87	6,08	1,94	6,84	2,12
60	-	-	-	-	-	-	-	-	5,80	1,58	6,46	1,66

Performance data table in heating mode PROCIDA AWS X10 - PROCIDA AWS XB10

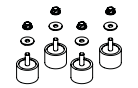
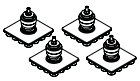
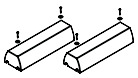
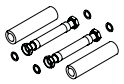
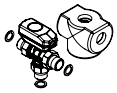
	Ta °C - DB															
	2		7		10		15		20		25		30		35	
LWT [°C]	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP	Qh	COP
25	8,93	5,4	8,74	5,61	9,03	5,87	9,5	6,41	9,41	6,8	8,55	6,73	7,51	7,34	5,89	7,77
30	8,65	4,61	9,22	5,11	9,5	5,43	10,07	5,79	9,98	6,19	9,03	6,19	7,89	6,69	6,18	7,16
35	8,08	3,85	9,5	4,61	9,79	4,86	10,36	5,29	10,26	5,51	9,31	5,51	8,17	6,12	6,37	6,48
40	8,08	3,6	9,5	4,1	9,79	4,32	10,36	4,68	10,26	4,93	9,31	4,89	8,17	5,4	6,37	5,76
45	8,08	3,17	9,5	3,6	9,79	3,78	10,36	4,1	10,26	4,32	9,31	4,53	8,17	4,75	6,37	5,04
50	7,79	2,63	9,22	3,09	9,5	3,24	10,07	3,56	9,98	3,71	9,03	3,89	7,89	4,07	6,18	4,35
55	7,41	2,23	8,74	2,59	9,03	2,73	9,5	2,95	9,41	3,13	8,55	3,24	7,51	3,42	5,89	3,67
60	7,03	1,76	8,27	2,09	8,55	2,16	9,03	2,3	8,93	2,41	8,08	2,55	7,13	2,66	5,51	2,84

Performance data table in cooling mode PROCIDA AWS X10 - PROCIDA AWS XB10

	Ta °C - DB															
	10		15		20		25		30		35		40		45		48	
LWT [°C]	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER	Qh	EER
7	5,33	3,89	5,92	3,75	6,24	3,64	6,63	3,46	6,76	3,18	6,5	2,86	5,92	2,38	4,62	1,75	3,9	1,4
8	5,46	4,01	6,11	3,87	6,44	3,75	6,83	3,58	6,96	3,26	6,7	2,95	6,11	2,43	4,75	1,78	4,03	1,46
9	5,66	4,15	6,24	4,01	6,57	3,87	7,02	3,69	7,15	3,38	6,89	3,04	6,24	2,52	4,94	1,86	4,1	1,52
10	5,79	4,24	6,37	4,09	6,7	3,95	7,22	3,81	7,35	3,46	7,02	3,12	6,37	2,58	5,01	1,92	4,23	1,52
11	5,92	4,35	6,57	4,21	6,96	4,07	7,35	3,87	7,54	3,58	7,22	3,21	6,57	2,66	5,07	1,95	4,36	1,57
12	6,11	4,47	6,7	4,3	7,15	4,18	7,54	3,98	7,67	3,67	7,41	3,29	6,7	2,72	5,27	2	4,49	1,6
13	6,24	4,61	6,89	4,44	7,35	4,3	7,74	4,09	7,87	3,78	7,61	3,38	6,89	2,83	5,4	2,09	4,55	1,66
14	6,44	4,7	7,15	4,52	7,48	4,41	7,93	4,21	8,13	3,84	7,8	3,46	7,15	2,89	5,53	2,12	4,68	1,72
15	6,57	4,84	7,28	4,64	7,67	4,5	8,19	4,3	8,32	3,92	8	3,55	7,28	2,95	5,72	2,15	4,81	1,75
18	7,02	5,18	7,74	5,01	8,13	4,84	8,65	4,61	8,91	4,24	8,52	3,81	7,74	3,15	6,05	2,32	5,14	1,86
20	7,35	5,44	8,13	5,21	8,58	5,1	9,1	4,84	9,3	4,44	8,91	3,98	8,13	3,32	6,31	2,43	5,33	1,98
23	7,74	5,76	8,58	5,53	9,04	5,38	9,62	5,13	9,82	4,7	9,43	4,24	8,58	3,49	6,63	2,58	5,66	2,06
25	8,00	5,98	8,91	5,78	9,36	5,58	10,01	5,33	10,21	4,9	9,82	4,41	8,91	3,67	6,96	2,69	0	2,18

Ta = Outside air temperature, ° C
DB = Dry bulb
LWT = outlet water temperature (flow), °C
Qh = Rated power, Kw

HEAT PUMP ACCESSORIES

Item	Description	PROCIDA AWM	PROCIDA AWS	PROCIDA AWS XB	Code
	Kit of base vibration-damping feet / 4 pcs Standard installation. Nuts and washers for assembly are included.	●	●	●	DKPIEBAS00
	Kit of spring vibration-damping feet + rubber support / 4 pcs Balcony installation. Nuts and washers for assembly are included. Including two pairs of feet featuring different rigidity for inverter side pump balancing.	●	●	●	DKPIEMOL00
	Kit of rubber support bars / 2pcs – Length 450 mm. Installations to keep 9.5 cm ground clearance. Including fixing screws and washers. **SUITABLE FOR PROCIDA AWM X6 – X8** **SUITABLE FOR PROCIDA AWS 4 (O) – 6 (O) – 8 (O) – 10 (O)**	●	●	●	DKBARSUP00
	Kit of 1" F-F L 200 mm flexible pipes / 2pcs Including insulation to be installed	●	●	●	DKTUBIFL00
	Kit of 1" M-F taps / 2pcs Including 1" gaskets	●	●	●	DKRUBINE00
	Kit of 1" M connection freeze protection valve / 1pc **WARNING** two valves must be installed: one for delivery and one for return.	●			DKVALANT00
	Kit of 1" M connection 3-way deviating valve / 1pc	●			DKVALDEV00
	Kit of 1" nipples / 2pcs	●	●	●	DKNIPPLE00
	Kit of 1" sleeves / 2pcs	●	●	●	DKMANICT00
	Kit of 1" 1/4 - 1" connections / 2 pcs	●	●	●	DKRACCOR00


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WHPF PU

TECHNICAL WATER STORAGE TANK FOR HEATING WATER OR CHILLED WATER
IDEAL FOR COMBINATION WITH AIR-TO-WATER HEAT PUMP SYSTEMS



- **Thermometer and holders for probe included in the supply**
- **Wall mounting possible for WHPF 25 PU model**
- **Easy installation**
- External paint
- Untreated internal surface
- Injected rigid polyurethane thermal insulation
- Covering in white skai

Available in the following capacities (l):

25 50 100 200 300 500

Model	Code	Energy efficiency class	Heat loss (S)	Storage volume (V)	Dimensions D x H	Empty gross weight
			W	l	mm	kg
25 PU	DBOLLPDC00	A	19	24	380x451	19
50 PU	DBOLLPDC01	B	34	57	380x935	29
100 PU	DBOLLPDC02	B	50	123	510x1095	39
200 PU (*)	DBOLLPDC08	C	68	203	550x1395	48
300 PU (*)	DBOLLPDC09	C	82	277	600x1560	59
500 PU (*)	DBOLLPDC10	C	114	473	700x1855	99

Technical data	um	25 PU	50 PU	100 PU	200 PU (*)	300 PU (*)	500 PU (*)
Insulation thickness	mm	40	50	50	50	50	50
Empty net weight	kg	17,5	25	35	43	54	91
Maximum working pressure	bar	6	6	6	6	6	6
Maximum working temperature	°C	95	95	95	95	95	95

(*) Models 200, 300 and 500 are available on request



WHPF 25 PU



WHPF 50 - 100 PU

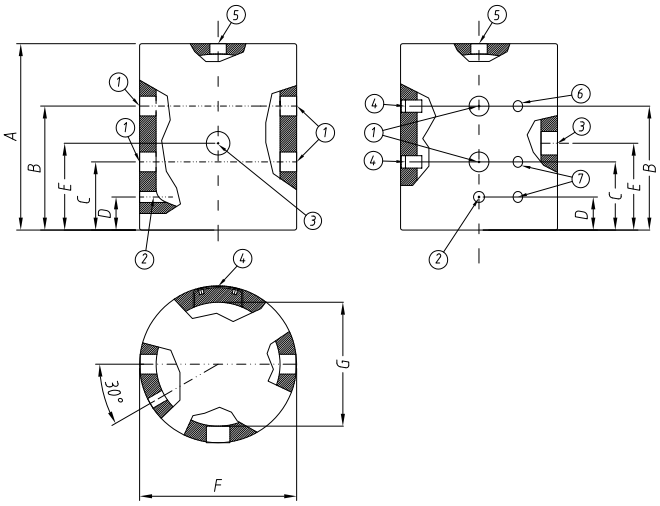


WHPF 200 - 300 - 500 PU

Warning: images to be considered representative and not to scale

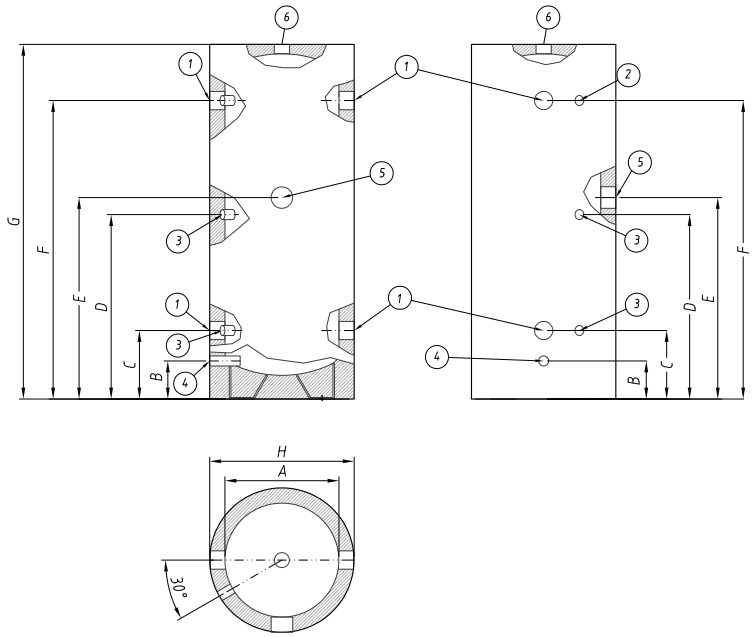
DIMENSIONS AND CONNECTION CENTRE DISTANCES

mod. WHPF-25-PU



Ref.	25 PU
A	451 mm
B	300 mm
C	165 mm
D	80 mm
E	210 mm
F	380 mm
G	300 mm
1 - Heating circuit inlets - outlets	1 1/4" F
2 - Drain	1/2" F
3 - Heating element connection	1 1/2" F
4 - Supports for fastening with brackets	-
5 - Vent	1" F
6 - Thermometer (included in the supply)	1/2" F
7 - Holder for probe (included in the supply)	1/2" F

mod. WHPF 50-100 - 200 - 300 - 500 PU



Ref.	50 PU	100 PU	200 PU	300 PU	500 PU
A	300 mm	400 mm	450 mm	500 mm	600 mm
B	100 mm	100 mm	105 mm	120 mm	135 mm
C	180 mm	185 mm	215 mm	235 mm	240 mm
D	485 mm	560 mm	705 mm	785 mm	925 mm
E	530 mm	605 mm	750 mm	830 mm	970 mm
F	785 mm	935 mm	1200 mm	1340 mm	1610 mm
G	935 mm	1095 mm	1395 mm	1560 mm	1855 mm
H	380 mm	510 mm	550 mm	600 mm	700 mm
1 - Heating circuit inlets - outlets	1 1/4" F		1 1/2" F	2" F	2 1/2" F
2 - Thermometer (included)	1/2" F				
3 - Holder for probe (included)	1/2" F				
4 - Drain	1/2" F			3/4" F	
5 - Heating element connection	1 1/2" F				
6 - Vent	1" F		1 1/4" F		

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WHPF PU E

TECHNICAL WATER STORAGE TANK FOR HEATING WATER OR CHILLED WATER
IDEAL FOR COMBINATION WITH AIR-TO-WATER HEAT PUMP SYSTEMS



- **Thermometer and holders for probe included in the supply**
- **Wall mounting is possible for model WHPF 24 PU E**
- **Easy installation**
- Untreated internal surface
- Injected rigid polyurethane thermal insulation
- Covering in grey skai

Available in the following capacities (l):

24 50 100

Model	Code	Energy efficiency class	Heat loss (S)	Storage volume (V)	Dimensions D x H	Empty gross weight
			W	l	mm	kg
24 PU E	DBOLLPDC13	A	18	24	410x555	10
50 PU E	DBOLLPDC11	A	26	50	410x890	19,5
100 PU E	DBOLLPDC12	B	40	96	510x950	37,5

Technical data	um	24 PU E	50 PU E	100 PU E
Energy efficiency class	-	A	A	B
Insulation thickness	mm	65	50	55
Heat loss	W	18	26	40
Hot water storage	l	24	50	96
Dimensions (diameter x height)	mm	410x555	410x890	510x950
Empty net weight	kg	8,5	17,5	35
Empty gross weight	kg	10	19,5	37,5
Maximum working pressure	bar	10	10	10
Maximum working temperature	°C	95	95	95



WHPF 24 PU E

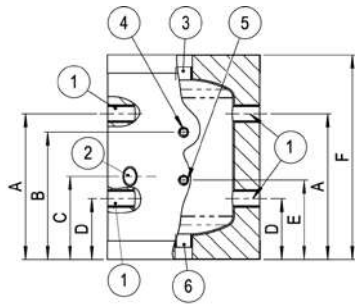


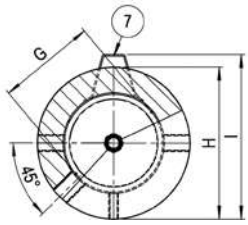
WHPF 50 - 100 PU E

Warning: images to be considered representative and not to scale

DIMENSIONS AND CONNECTION CENTRE DISTANCES

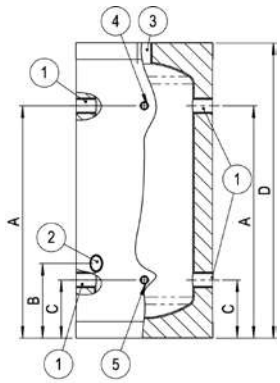
mod. WHPF 24 PU E

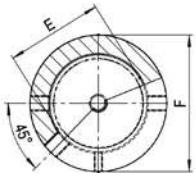




Ref.	24 PU E
A	390 mm
B	340 mm
C	225 mm
D	160 mm
E	210 mm
F	555 mm
G	280 mm
H	410 mm
I	446 mm
1 - Heating circuit inlets - outlets	1"1/4 F
2 - Connection for electrical resistance	1"1/2 F
3 - Vent	1"1/4 F
4 - Thermometer (supplied as standard)	1/2 F
5 - Thermowell (supplied as standard)	1/2 F
6 - Connection (closure cap supplied as standard)	1"1/4 F
7 - Bracket supports	-

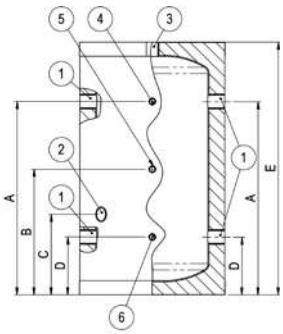
mod. WHPF 50 PU E

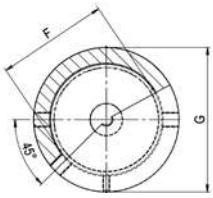




Ref.	50 PU E
A	700 mm
B	225 mm
C	175 mm
D	890 mm
E	292 mm
F	410 mm
1 - Heating circuit inlets - outlets	1"1/4 F
2 - Connection for electrical resistance	1"1/2 F
3 - Vent	1"1/4 F
4 - Thermometer (supplied as standard)	1/2 F
5 - Thermowell (supplied as standard)	1/2 F

mod. WHPF 100 PU E





Ref.	100 PU E
A	705 mm
B	465 mm
C	305 mm
D	225 mm
E	950 mm
F	392 mm
G	510 mm
1 - Heating circuit inlets - outlets	1"1/2 F
2 - Connection for electrical resistance	1"1/2 F
3 - Vent	1"1/4 F
4 - Thermometer (supplied as standard)	1/2" F
5 - Thermowell (supplied as standard)	1/2" F
6 - Connection	1/2" F

WHDHP SS

SINGLE-COIL STORAGE TANK FOR DHW
SPECIFICALLY FOR COMBINATION WITH AIR-TO-WATER HEAT PUMP SYSTEMS



Available in the following capacities (l):

200 300 500 1000

- **Thermometer and holders for probe included in the supply**
- **Magnesium anode for anodic protection**
- **Wide heat exchange surface - high efficiency coil**
- **Easy installation**
- **Inspection flange**
- **It can be integrated with solar coil (extra accessory), installable in the inspection flange**
- External paint
- Vitrification treatment coated internal surface
- Carbon steel coil
- Thermal insulation in injected rigid polyurethane foam (models up to 500) and polyester fibre (model 1000)
- Covering in white skai

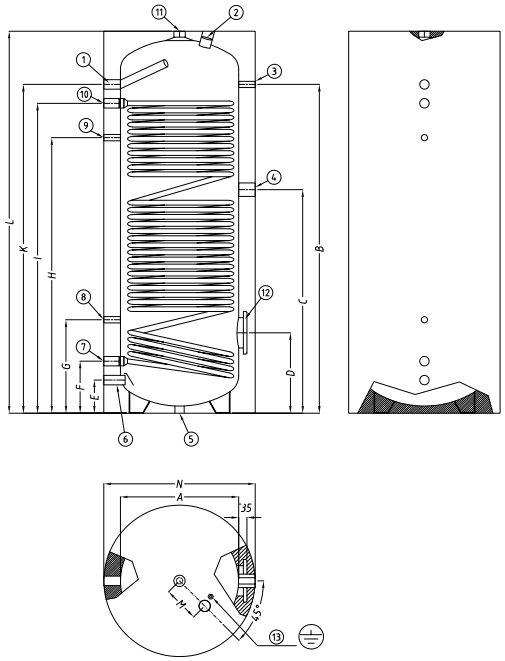
Warning: images to be considered representative and not to scale
The 1000-litre model is available upon request only.

Model	Code	Energy efficiency class	Heat loss (S)	Storage volume (V)	Coil area	Dimensions D x H	Empty gross weight
			W	l	m²	mm	kg
200 SS	DBOLLPDC03	B	51	190	3	640x1215	96
300 SS	DBOLLPDC04	B	63	263	4	640x1615	130
500 SS	DBOLLPDC05	B	80	470	6	790x1705	181
1000 SS	DBOLLPDC14	C	142	900	8	990x2205	265

Technical data	um	200 SS	300 SS	500 SS	1000 SS
Insulation thickness	mm	70	70	70	100
Coil water content	l	17	23	51	68,5
Empty net weight	kg	90	124	175	247
Maximum DHW working pressure	bar	10	10	10	10
Maximum CH working pressure	bar	10	10	10	10
Maximum working temperature	°C	95	95	95	95

DIMENSIONS AND CONNECTION CENTRE DISTANCES

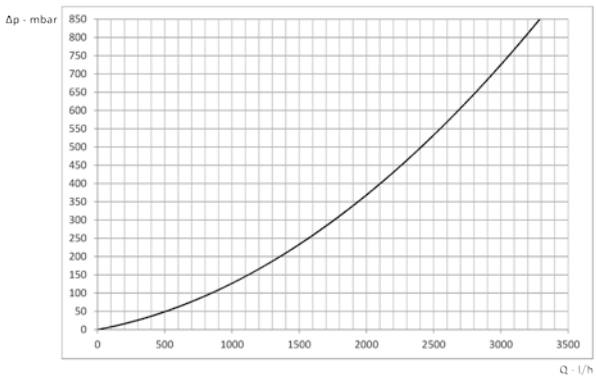
mod. WHDHP-200-300-500-1000-SS

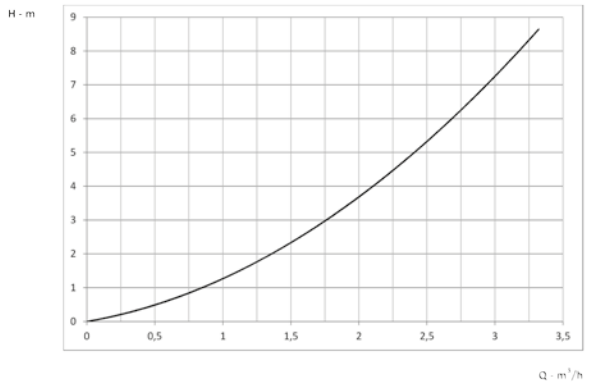


Ref.	200 SS	300 SS	500 SS	1000 SS
A	500 mm	500 mm	650 mm	790 mm
B	995 mm	1390 mm	1425 mm	1940 mm
C	735 mm	945 mm	645 mm	1435 mm
D	320 mm	340 mm	370 mm	470 mm
E	140 mm	140 mm	185 mm	240 mm
F	220 mm	220 mm	265 mm	345 mm
G	370 mm	395 mm	425 mm	515 mm
H	835 mm	1165 mm	1170 mm	1485 mm
I	990 mm	1310 mm	1325 mm	1830 mm
K	1070 mm	1390 mm	1415 mm	1940 mm
L	1215 mm	1615 mm	1705 mm	2205 mm
M	150 mm	150 mm	150 mm	-
N	640 mm	640 mm	790 mm	990 mm
1 - DHW flow	1" F			1 1/4" F
2 - Magnesium anode (included)	1 1/4" F			1 1/2" F
3 - Thermometer (included)	1/2" F			
4 - Heating element connection	1 1/2" F			
5 - Bench connection	1/2" F		-	-
6 - Cold water inlet	1" F			1 1/4" F
7 - Coil return	1" F	1 1/4" F	1 1/4" F	1 1/4" F
8 - Holder for probe	1/2" F			
9 - Recirculation	1/2" F			1" F
10 - Coil flow	1" F	1 1/4" F	1 1/4" F	1 1/4" F
11 - DHW flow	1 1/4" F	1 1/4" F	1 1/2" F	1 1/2" F
12 - Flange	180/120 mm			
13 - Grounding system	M6 nut			

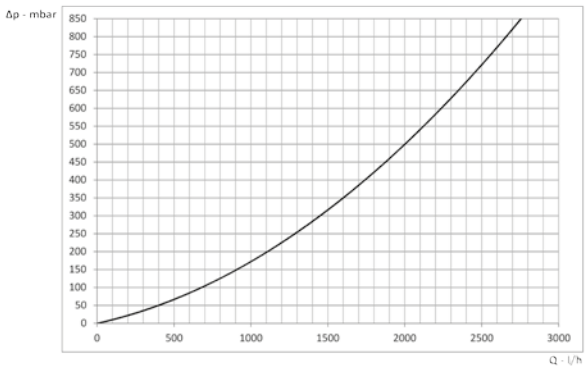
COIL PRESSURE LOSS

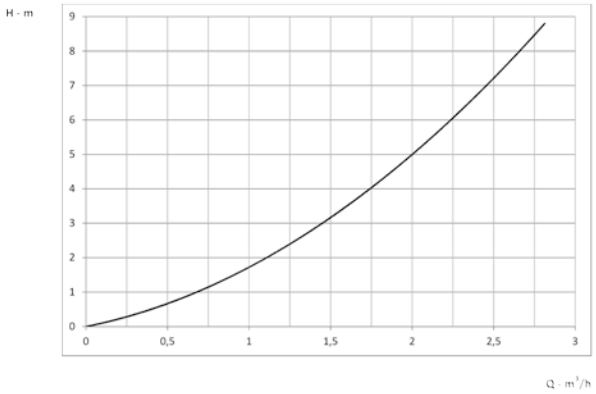
WHDHP 200 SS



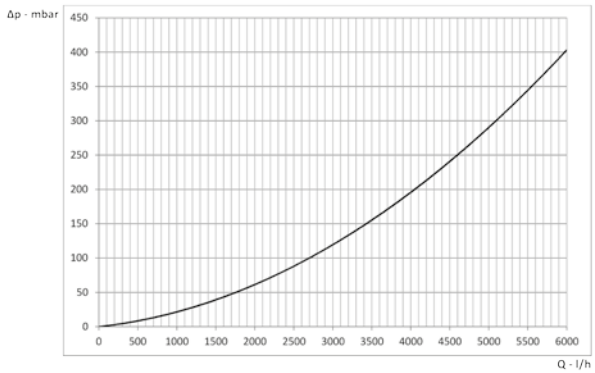


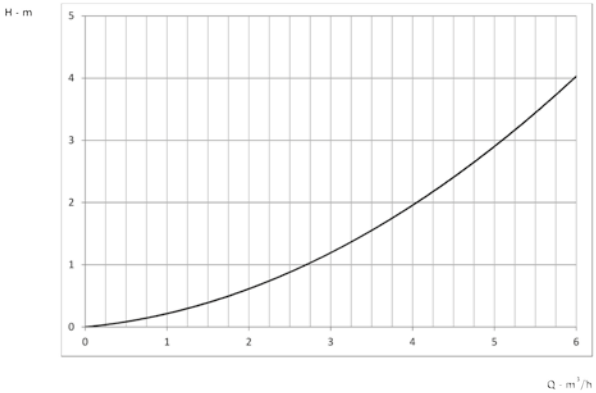
WHDHP 300 SS



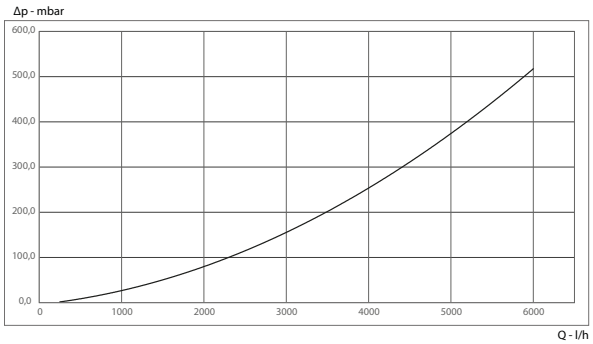


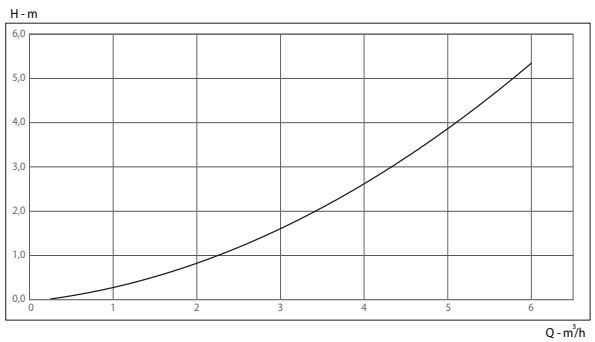
WHDHP 500 SS





WHDHP 1000 SS





WHDHP SSH

COMBINED HYBRID STORAGE TANK FOR DHW AND PUFFER FOR TECHNICAL WATER
SPECIFICALLY FOR COMBINATION WITH AIR-TO-WATER HEAT PUMP SYSTEMS



- **Space-saving compact installation: buffer tank serves as the base for the storage tank, vertically developed**
- **Thermometer and holders for probe included in the supply**
- **Magnesium anode for anodic protection**
- **Wide heat exchange surface - high efficiency coil**
- **Inspection flange**
- **It can be integrated with solar coil (extra accessory), installable in the inspection flange**
- External paint
- Vitrification treatment coated internal surface
- Carbon steel coil
- Injected rigid polyurethane thermal insulation
- Covering in white skai

Available in the following capacities (l):

300 500

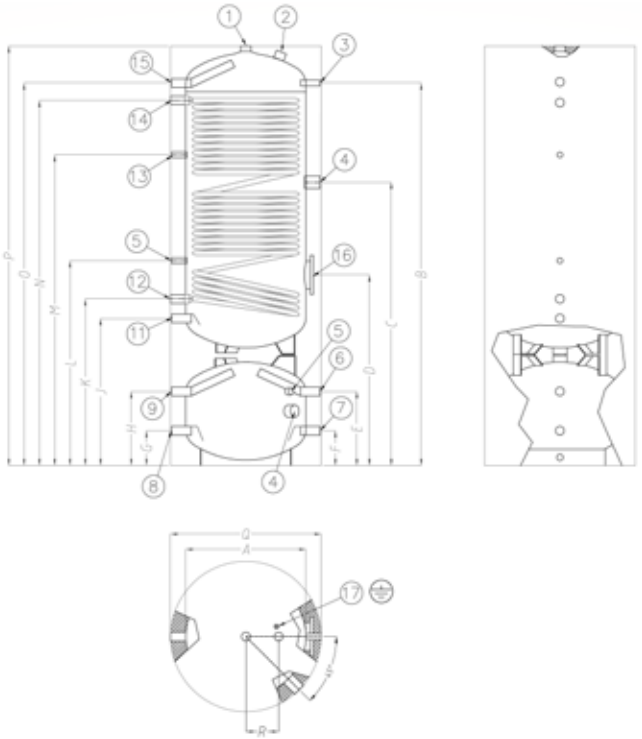
Warning: images to be considered representative and not to scale

Model	Code	Energy efficiency class	Heat loss (S)	DHW storage tank volume	Coil area	Buffer tank hot water storage	Dimensions D x H	Empty gross weight
			W	l	m²	l	mm	kg
300 SSH	DBOLLPDC06	B	73	270	3,3	80	690x1925	156
500 SSH	DBOLLPDC07	B	84	450	6	74	790x2040	207

Technical data	um	300 SSH	500 SSH
Insulation thickness	mm	70	70
Coil water content	l	20,2	51,5
Empty net weight	kg	150	200
Maximum DHW / coil working pressure	bar	10	10
Maximum buffer tank working pressure	bar	6	6
Maximum working temperature	°C	95	95

DIMENSIONS AND CONNECTION CENTRE DISTANCES

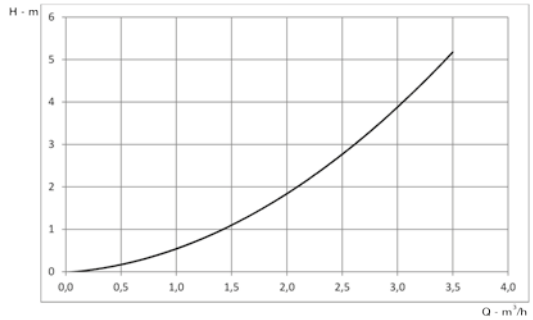
mod. WHDHP-300-500-SSH

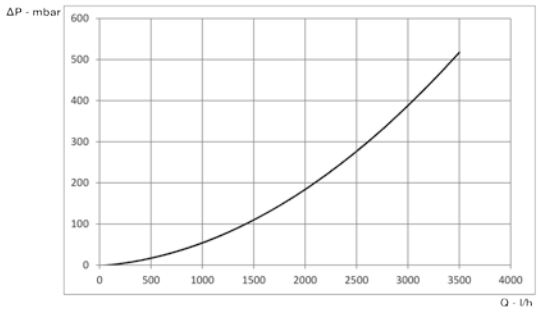


Ref.	300 SSH	500 SSH
A	550 mm	650 mm
B	1755 mm	1850 mm
C	1300 mm	1020 mm
D	875 mm	750 mm
E	340 mm	235 mm
F	160 mm	135 mm
G	160 mm	135 mm
H	340 mm	235 mm
I	505 mm	375 mm
J	675 mm	565 mm
K	765 mm	650 mm
L	940 mm	805 mm
M	1425 mm	1520 mm
N	1675 mm	1710 mm
O	1755 mm	1850 mm
P	1925 mm	2040 mm
Q	690 mm	790 mm
R	150 mm	150 mm
1 - DHW flow	1 1/4" F	
2 - Anode	1 1/4" F	
3 - Thermometer (included)	1/2" F	
4 - Heating element	1 1/2" F	
5 - Holder for probe (included)	1/2" F	
6 - Delivery from heat pump	1" F	
7 - Return to heat pump	1" F	
8 - System return line	1" F	
9 - System delivery line	1" F	
11 - Cold water inlet	1" F	
12 - Coil return	1 1/4" F	
13 - Recirculation	1/2" F	
14 - Coil flow	1" F	
15 - DHW flow	1" F	
16 - Flange	180/120 mm	
17 - Grounding system	M6 nut	

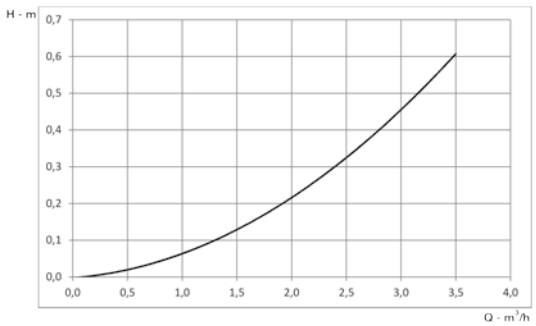
COIL PRESSURE LOSS

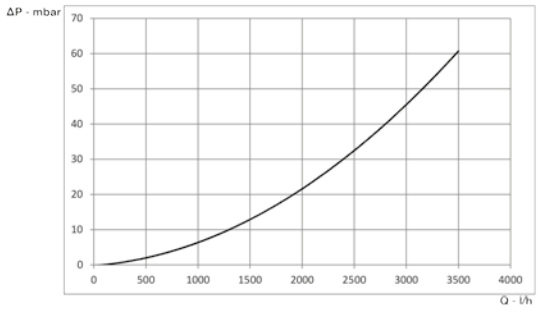
WHDHP 300 SSH



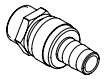
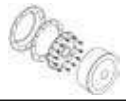


WHDHP 500 SSH





ACCESSORIES FOR HEAT PUMP TANKS

Item	Description	Code
	1.5 kW heating element kit 340 mm-long heating element	DKRESELE00
	2 kW heating element kit 390 mm-long heating element	DKRESELE01
	3 kW heating element kit 390 mm-long heating element	DKRESELE02
	1/2" vent tap kit	DKRUBINE01
	Temperature probe for storage tank L 2 m (*)	DKSONDAB00
	Flange kit with heating element connection	DKFLABOL00

(*) For PROCIDA heat pumps the temperature probe is supplied as standard.

COMBINATION OF HEATING ELEMENTS - STORAGE TANKS

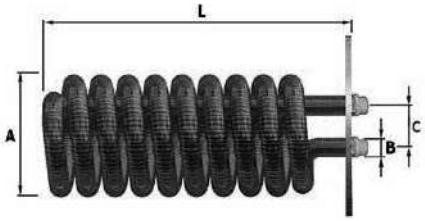
Description	Code	1.5 kW heating element DKRESELE00	2 kW heating element DKRESELE01	3 kW heating element DKRESELE02	Heating element flange kit DKFLABOL00
WHPF 25 PU	DBOLLPDC00	●			
WHPF 50 PU	DBOLLPDC01	●			
WHPF 100 PU	DBOLLPDC02	●	●	●	
WHPF 200 PU	DBOLLPDC08	●	●	●	
WHPF 300 PU	DBOLLPDC09	●	●	●	
WHPF 500 PU	DBOLLPDC10	●	●	●	
WHPF 24 PU E	DBOLLPDC13	●			
WHPF 50 PU E	DBOLLPDC11	●			
WHPF 100 PU E	DBOLLPDC12	●	●	●	
WHDHP 200 SS	DBOLLPDC03	●	●	●	●
WHDHP 300 SS	DBOLLPDC04	●	●	●	●
WHDHP 500 SS	DBOLLPDC05	●	●	●	●
WHDHP 1000 SS	DBOLLPDC14	●	●	●	●
WHDHP 300 SSH	DBOLLPDC06	●	●	●	●
WHDHP 500 SSH	DBOLLPDC07	●	●	●	●

COIL FOR SOLAR ENERGY

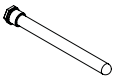


Removable coil for solar energy, complete with flange, tinned copper coil, flange cover and bolts. It can be combined with water tanks for the production of domestic hot water **WHDHP SS** and **WHDHP SSH**.

- **Coil for solar energy 24 kW:** Combinable with 200-300 litre storage tanks
- **Coil for solar energy 36 kW:** Combinable with 500 litre storage tanks



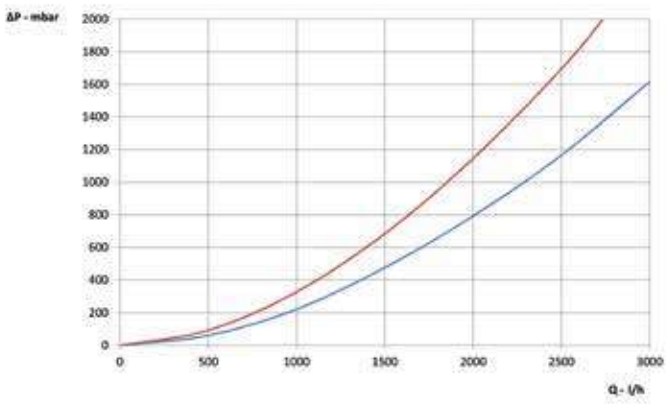
Coil for solar energy		24 kW	36 kW
Coil area	m²	0,80	1,21
Coil water content	litres	0,7	1,4
Power input	kW	24	36
Flow needed by the coil 80-60 °C	m³/h	1	1,6
A	DN	100	100
B	inches	3/4	3/4
C	mm	60	80
L	mm	400	550
Code		DKSERSOL00	DKSERSOL01

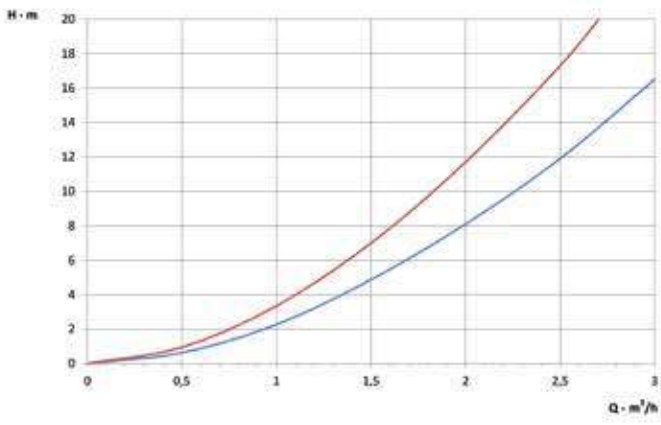
Item	Description	Code
	Well for double probe (compulsory for coils combined with solar panels) The well should replace the probe well opposite to the coil insertion flange on the water tank	DKPOZZET00

Description	Code	Coil 24 kW DKSERSOL00	Coil 36 kW DKSERSOL01	Double probe well DKPOZZET00*
WHDHP 200 SS	DBOLLPDC03	●		●
WHDHP 300 SS	DBOLLPDC04	●		●
WHDHP 500 SS	DBOLLPDC05	●	●	●
WHDHP 1000 SS	DBOLLPDC14	●	●	●
WHDHP 300 SSH	DBOLLPDC06	●		●
WHDHP 500 SSH	DBOLLPDC07	●	●	●

(*) The accessory is compulsory for coils combined with solar panels

SOLAR COIL PRESSURE LOSS





Coil 24 kW — Coil 36 kW

fondital

WATER HEATER WITH HEAT PUMP

WATER HEATER WITH HEAT PUMP

MELORIA page 42

MELORIA

HEAT PUMP STORAGE WATER HEATERS FOR DOMESTIC HOT WATER SUPPLY



Available in wall-hung versions for 100 litres and 150 litres nominal capacity

100 150

Available in floor-standing versions for 190 litres and 300 litres nominal capacity

190 300

- **Refrigerant gas R290 - very low environmental impact GWP index = 3**
- **Excellent heating performance values**
- **Equipped with electric auxiliary resistance as standard**
- **Hot water setting range from 38 °C to 65 °C**
- **Wide operating range based on outside temperature.**
  -7 °C ÷ 43 °C heat pump only
  -20 °C ÷ 45 °C with auxiliary resistance
- Aluminium microchannel heat exchanger
- Double protection against corrosion: magnesium node and impressed-current anode
- Polyurethane thermal insulation
- The floor-standing versions are preset with an additional exchange circuit for integration with a solar thermal system
- Preset for connection to solar photovoltaic system
- Option to vary the available head at the inlet - outlet of air ducts
- Wi-Fi module for remote control



- *Integrated user interface*
- *4' LCD display with keypad*
- *Displaying errors and alarms on screen*
- *Child Lock function*
- *On/off control, Timer, 'Vacation' mode, ' Disinfection' mode for anti-legionella, electrical resistance activation and 'Smart' function*

Model	Code	Energy efficiency class Load profile (1)	Hot water storage	Total height (2)	Diameter	Depth (3)	Gross weight
			litres	mm	mm	mm	kg
100	DME0MMX100	M	98	1365	500	550	72
150	DME0MMX200	L	145	1708	500	550	87
190 S	DME0MBS190	L	181	1730	560	595	115
300 S	DME0MBS300	XL	270	1895	660	695	160

(1) Under average climatic conditions, according to EU Regulation 812/2013.

(2) Including air duct initial connections.

(3) It represents the overall dimensions in depth including the control panel and, for the 100 - 150 litre models, the wall mounting bracket.



MELORIA WALL-HUNG VERSIONS 100 - 150



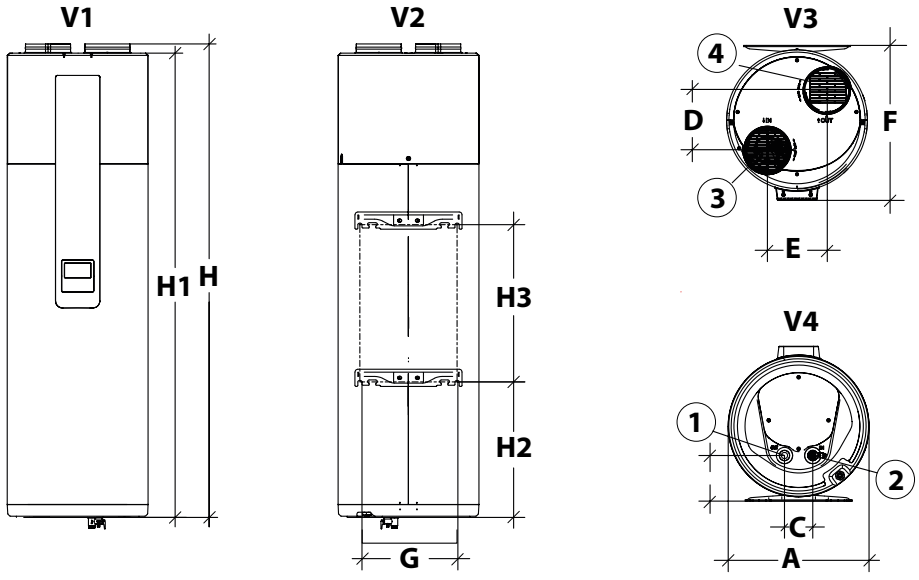
MELORIA FLOOR-STANDING VERSIONS 190 S - 300 S

MELORIA DISPLAY



Function	Description
VACATION	The water temperature in the tank is kept low (set at 15°C) to avoid the risk of freezing, reducing on/off cycles.
HYBRID	Heat pump and electric heater operate at the same time, only in case of very low air source temperatures or if the heat pump cannot reach the set temperature after a long period of functioning.
E-HEATER	The heat pump and electric resistance are activated by operating simultaneously.
ECONOMY	The heat pump heats the water up to its maximum capacity in standard performance with high efficiency. The electrical resistance is activated if additional heating is required. The heat pump and the electrical resistance do not work at the same time.
SMART	The use habits of the user from the last 7 days are stored. The water heater is activated in advance according to the user's peak use hours.

DIMENSIONS OF MELORIA 100 AND MELORIA 150 WALL-HUNG WATER HEATERS

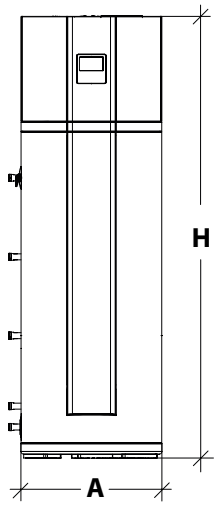


KEY	
V1	Front view
V2	Rear view
V3	Top view
V4	Bottom view
1	½' hot water outlet
2	½' cold water inlet
3	Air inlet D 160
4	Air outlet D 160

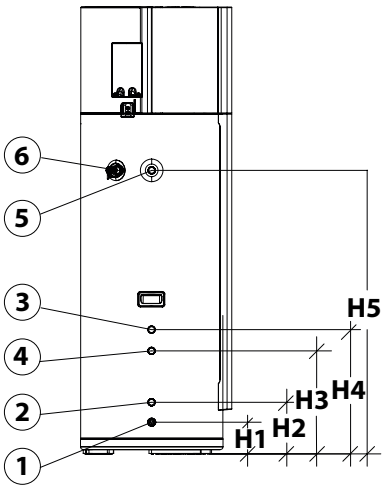
Ref.	um	MELORIA 100	MELORIA 150
A	mm	500	500
B	mm	162	162
C	mm	100	100
D	mm	210	210
E	mm	210	210
F	mm	550	550
G	mm	345	345
H	mm	1365	1708
H1	mm	1332	1675
H2	mm	281	481
H3	mm	415	558

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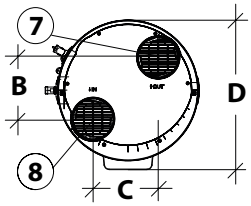
MELORIA 190 S FLOOR-STANDING WATER HEATER DIMENSIONS



FRONT VIEW



REAR VIEW

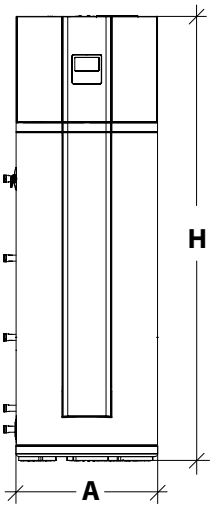


VIEW FROM TOP

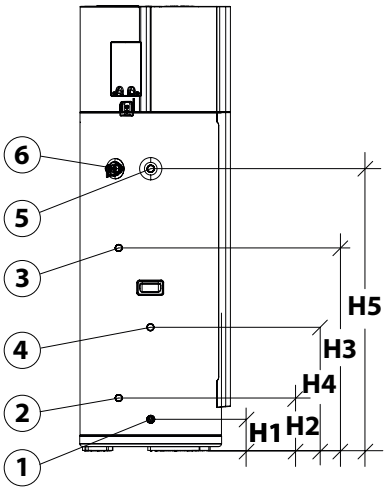
KEY	
1	Drain connection - NPT 3/4
2	Outlet (to) solar circuit ¾'
3	Inlet (from) solar circuit ¾'
4	¾' cold water inlet
5	¾' hot water outlet
6	¾' overpressure drain
7	Air outlet D160
8	Air inlet D 160

Ref.	um	MELORIA 190 S
A	mm	560
B	mm	250
C	mm	250
D	mm	595
H	mm	1730
H1	mm	125
H2	mm	230
H3	mm	395
H4	mm	570
H5	mm	1100

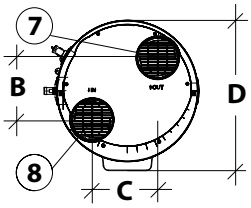
MELORIA 300 S FLOOR-STANDING WATER HEATER DIMENSIONS



FRONT VIEW



REAR VIEW



VIEW FROM TOP

KEY	
1	Drain connection - NPT 3/4
2	Outlet (to) solar circuit ¾'
3	Inlet (from) solar circuit ¾'
4	¾' cold water inlet
5	¾' hot water outlet
6	¾' overpressure drain
7	D190 air outlet
8	D190 air inlet

Ref.	um	MELORIA 300 S
A	mm	660
B	mm	300
C	mm	200
D	mm	695
H	mm	1895
H1	mm	125
H2	mm	215
H3	mm	825
H4	mm	425
H5	mm	1185

Technical Specifications	um	MELORIA 100	MELORIA 150	MELORIA 190 S	MELORIA 300 S
Product code	-	DME0MMX100	DME0MMX200	DME0MBS190	DME0MBS300
Empty net weight	kg	66	81	94	132
Empty gross weight	kg	72	87	115	160
Nominal storage capacity	l	100	150	190	300
Actual storage capacity	l	98	145	181	270
Tank material	-	Steel	Steel	Steel	Steel
Type of internal coating	-	Enamelling	Enamelling	Enamelling	Enamelling
Insulation material	-	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Insulation thickness	mm	42	42	42	42
Maximum working pressure	bar/MPa	7,5/ 0,75	7,5 / 0,75	8,5 / 0,85	8,5 / 0,85
Pes dispersions	kW	0,019 (1)	0,023 (2)	0,026 (3)	0,022 (3)
Solar coil exchange surface area	m2	–	–	0,6	1,1
Solar coil material	-	–	–	INOX AISI 316 L	INOX AISI 316 L
Maximum solar coil pressure	bar / MPa	–	–	10/1	10/1
Refrigerant type	-	R290	R290	R290	R290
Refrigerant charge	g	150	150	150	150
GWP	-	3	3	3	3
CO2 equivalent	t	0,00045	0,00045	0,00045	0,00045
Refrigerant circuit operating pressure (aspiration side)	MPa	1,2	1,2	1,2	1,2
Refrigerant circuit operating pressure (drain side)	MPa	3	3	3	3
Refrigerant circuit maximum pressure	MPa	3,1	3,1	3,1	3,1
Min - max power supply	V	220 – 240	220 – 240	220 – 240	220 – 240
Frequency	Hz	50 – 1Ph	50 – 1Ph	50 – 1Ph	50 – 1Ph
Electrical protection class	IP	21	21	21	21
Min - max installation room temperature	°C	0 ÷ 43	0 ÷ 43	0 ÷ 43	0 ÷ 43
Min - max outside air temperature	°C	-7 ÷ 43	-7 ÷ 43	-7 ÷ 43	-7 ÷ 43
Min - max outside air temperature with resistance	°C	-20 ÷ 45	-20 ÷ 45	-20 ÷ 45	-20 ÷ 45
Hot water maximum temperature - heat pump only	°C	65	65	65	65
Hot water maximum temperature - with resistance	°C	70	70	70	70
Hot water setting range	°C	38 – 65	38 – 65	38 – 65	38 – 65
Nominal air flow rate	m³/h	200	240	350	450
Minimum volume for the installation room *	m³	15	15	15	15
Minimum area for the installation room *	m²	4	4	4	4

(1) EN 16147 - Average climate conditions air T 7°C/6°C (dry bulb/wet bulb), water inlet T 10 °C. Hot water outlet T setting 55°C.
(2) EN 16147 - Average climate conditions air T 7°C/6°C (dry bulb/wet bulb), water inlet T 10 °C. Hot water outlet T setting 52°C.
(3) EN 16147 - Average climate conditions air T 7°C/6°C (dry bulb/wet bulb), water inlet T 10 °C. Hot water outlet T setting 53°C.
* Requirements to ensure proper functioning with performance.

PERFORMANCE DATA TABLE

Technical Specifications	um	MELORIA 100	MELORIA 150	MELORIA 190 S	MELORIA 300 S
Product code	-	DME0MMX100	DME0MMX200	DME0MBS190	DME0MBS300
Maximum power input to the heat pump	W	450	750	600	710
Electrical resistance power	W	1500	1500	1640	1640
Maximum power consumption of the heat pump (with resistance)	W	1950	2250	2240	2350
Maximum input power to the heat pump	A	9	9	10,5	11
COP - air T 7°C	W/W	2,61 (1)	2,67 (2)	3,13 (5)	3,13 (5)
SCOP - air T 7°C	W/W	2,61 (1)	2,67 (2)	3,13 (5)	3,13 (5)
Heating time - air T 7°C	hh:min	06:04 (1)	06:32 (2)	07:47 (5)	09:02 (5)
COP air temperature 14 °C	W/W	2,74 (3)	3,02 (4)	3,52 (6)	3,51 (6)
SCOP air temperature 14°C	W/W	2,74 (3)	3,02 (4)	3,52 (6)	3,51 (6)
Heating time – air T 14°C	Hh:min	05:14 (3)	06:10 (4)	06:33 (6)	07:35 (6)

(1) EN 16147 - Average climate conditions air T 7°C/6°C (dry bulb/wet bulb), water inlet T 10 °C. Hot water outlet T setting 55°C.Water heating heat pump only
(2) EN 16147 - Average climate conditions air T 7°C/6°C (dry bulb/wet bulb), water inlet T 10 °C. Hot water outlet T setting 52°C.Water heating heat pump only
(3) EN16147 - At declared load profile, outside T air 14°C / 13°C (dry bulb / wet bulb), water inlet T 10°C setting hot water outlet T 54°C.Water heating heat pump only
(4) EN16147 - At declared load profile, outside T air 14°C / 13°C (dry bulb / wet bulb), water inlet T 10°C setting hot water outlet T 52°C.Water heating heat pump only
(5) EN16147 - At declared load profile, outside T air 7°C / 6°C (dry bulb / wet bulb), water inlet T 10°C setting hot water outlet T 53°C.Water heating heat pump only
(6) EN16147 - At declared load profile, outside T air 14°C / 13°C (dry bulb / wet bulb), water inlet T 10°C setting hot water outlet T 53°C.Water heating heat pump only

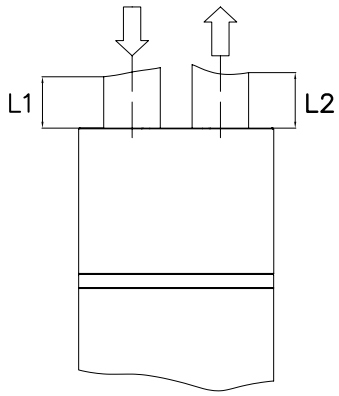
ERP PERFORMANCE DATA TABLE ACCORDING TO EU REGULATIONS 812/2013 AND EU 814/2013

Technical Specifications		um	MELORIA 100	MELORIA 150	MELORIA 190 S	MELORIA 300 S
Product code	-	-	DME0MMX100	DME0MMX200	DME0MBS190	DME0MBS300
Stated load profile	-	-	M	L	L	XL
Energy efficiency class water heating - average climate F -> A+	-	-	A+	A+	A+	A+
Energy efficiency water heating - average climate	η_{wh}	%	111	122	130	128
Energy efficiency water heating - warmer climate	η_{wh}	%	114	137	144	144
Energy efficiency water heating - colder climate	η_{wh}	%	92	103	86	104
Annual energy consumption - average climate	AEC	kWh	463	843	785	1312
Annual energy consumption - warmer climate	AEC	kWh	451	746	708	1167
Annual electricity consumption - colder climate	AEC	kWh	558	997	1192	1614
Thermostat temperature settings	-	°C	55	52	54	53
Indoor/outdoor sound power (*)	LWA	dB(A)	54 / -	56 / -	51 / 54	51 / 54
Daily energy consumption - average climate	Q_{elec}	kWh	2,435	4,36	3,718	6,095
Daily energy consumption - warmer climate	Q_{elec}	kWh	2,133	3,85	3,314	5,148
Daily electricity consumption - colder climate	Q_{elec}	kWh	2,631	4,685	5,62	7,499
Hot water storage	V	l	98	145	181	270
Mixed water at 40°C - average climate	V40	litres	110	160	245	345

(*) According to EN 12102 - 2. Unit not channelled and set to ECO operation mode

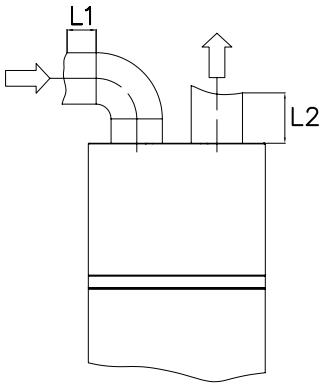
TOTAL DUCT LENGTHS TABLE

Vertical ducts



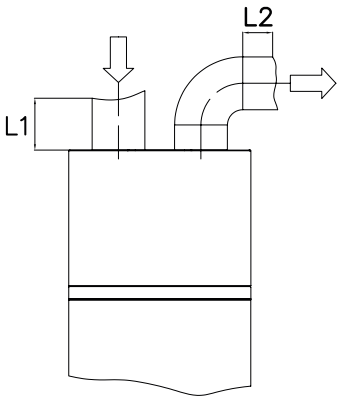
Model	Ducts diameter	L1 + L2
-	mm	m
MELORIA 100	160	60
MELORIA 150	160	50
MELORIA 190 S	160	32
MELORIA 300 S	190	40

Horizontal aspiration - vertical ejection



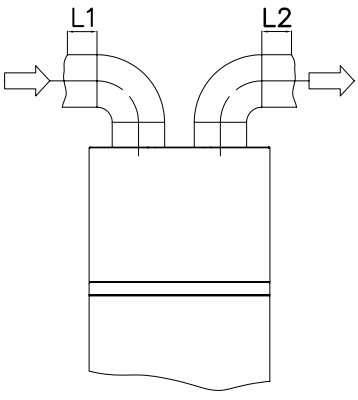
Model	Ducts diameter	L1 + L2
-	mm	m
MELORIA 100	160	57
MELORIA 150	160	46
MELORIA 190 S	160	28
MELORIA 300 S	190	36

Vertical aspiration - horizontal ejection



Model	Ducts diameter	L1 + L2
-	mm	m
MELORIA 100	160	57
MELORIA 150	160	46
MELORIA 190 S	160	28
MELORIA 300 S	190	36

Horizontal aspiration - horizontal ejection

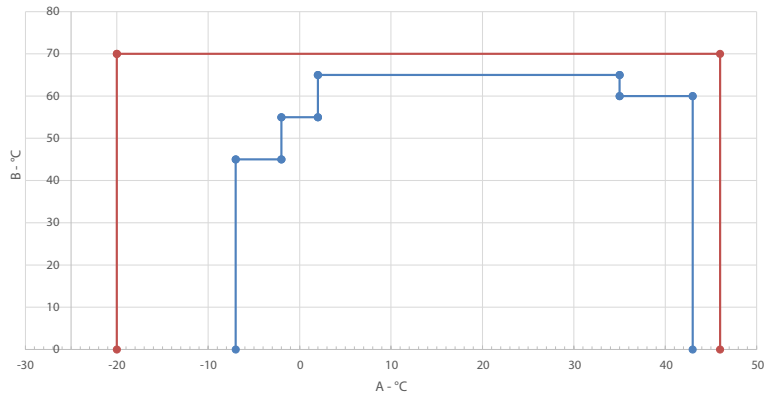


Model	Ducts diameter	L1 + L2
-	mm	m
MELORIA 100	160	54
MELORIA 150	160	42
MELORIA 190 S	160	24
MELORIA 300 S	190	32

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DIAGRAMS

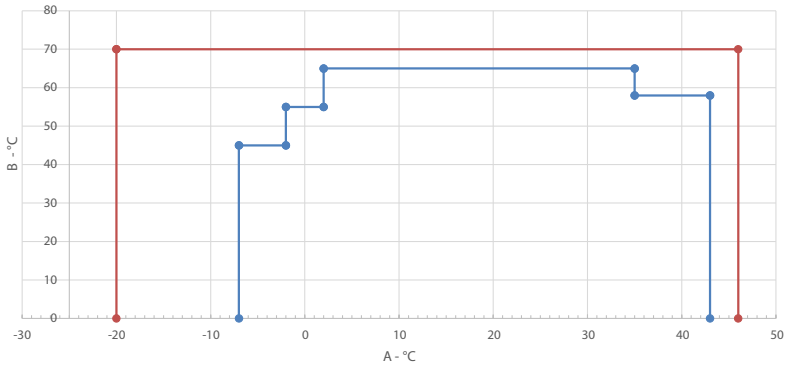
MELORIA 100



A= Inlet air temperature
B= Hot water maximum temperature

Operating limit area - electric resistance only
Operating limit area - heat pump only

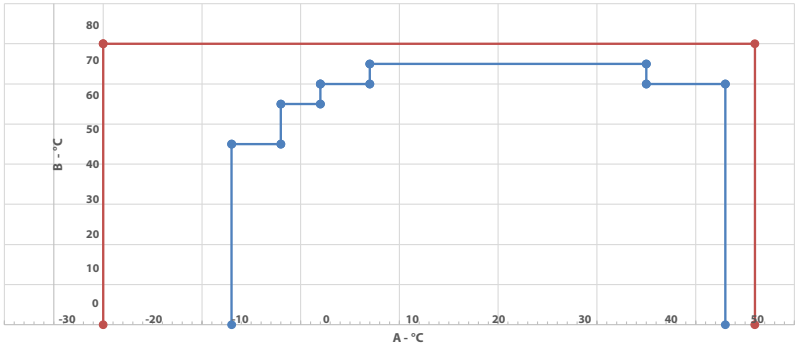
MELORIA 150



A= Inlet air temperature
B= Hot water maximum temperature

Operating limit area - electric resistance only
Operating limit area - heat pump only

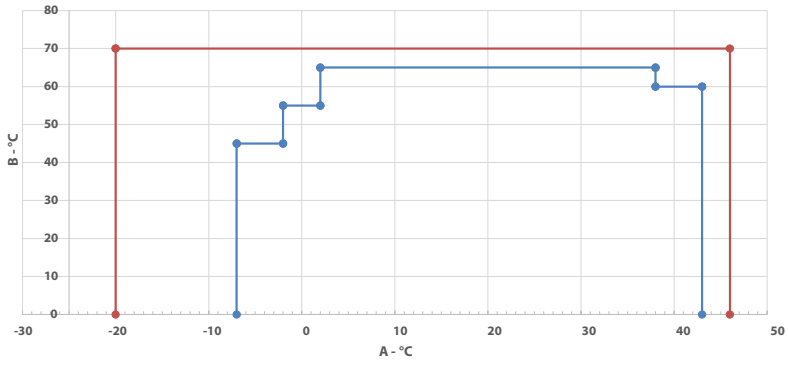
MELORIA 190 S



A= Inlet air temperature
B= Hot water maximum temperature

Operating limit area - electric resistance only
Operating limit area - heat pump only

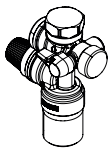
MELORIA 300 S



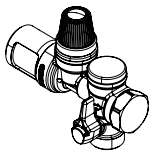
A= Inlet air temperature
B= Hot water maximum temperature

Operating limit area - electric resistance only
Operating limit area - heat pump only

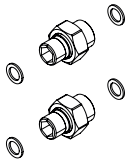
ACCESSORIES



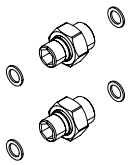
Description	Code
Safety hydraulic unit EN 1487. Connection ½'. Vertical installation under water heater. Height 122 mm	DKGRUPSI00



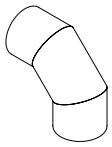
Description	Code
Safety hydraulic unit EN 1487. Connection ¾'. Configuration available according to the configuration, either vertical or horizontal use. Height x Length: 100 x 130 mm (horizontal use). Height x Length: 130 x 100 mm (vertical use).	DKGRUPSI01



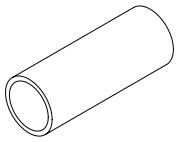
Description	Code
Dielectric joint M/F ½' - 2 pcs. Including ½' gaskets.	DKGIUDIE00



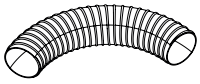
Description	Code
Dielectric joint M/F ¾' - 2 pcs. Including ¾' gaskets.	DKGIUDIE01



Description	Code
Initial elbow air duct diameter 160 + connection clamp.	0CURVAXX37



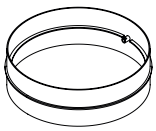
Description	Code
Straight pipe diameter 160, 0.5 m + connection clamp.	0PROLUNG34



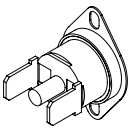
Description	Code
Flexible air duct D 203 L 1 metre	DKCONDAR00



Description	Code
Galvanised clamp D 190-210 for air duct D 203	DKFASCET00



Description	Code
Coupling D 200	DKMANICT01



Description	Code
Safety thermostat kit 80 °C with manual reset for solar integration	DKTERSIC00



Description	Code
Probe kit for solar panel	DKSONDAC00

HYBRID SYSTEMS

HYBRID SYSTEMS

PROCIDA HYBRID KC ..... page 52
PROCIDA HYBRID KRB ..... page 60
HYBRID SYSTEM ACCESSORIES ..... page 69

PROCIDA HYBRID KC

COMPACT HYBRID SYSTEM WITH INSTANTANEOUS DOMESTIC HOT WATER PRODUCTION
THE SYSTEM CONSISTS OF A MONOBLOC AIR-WATER HEAT PUMP AND A COMBINED INSTANTANEOUS CONDENSING BOILER.



Boiler available in the following models:

24 28 32

Heat pump available in the following models:

6 8

- **A+++ class air-to-water monobloc heat pump (1)**
- **Class A instantaneous combination condensing boiler**
- **Hydraulic unit under the auxiliary boiler**
- **Standard touch-screen control panel for the heat pump, designed for remote installation inside the dwelling**
- **Y-strainer filter for heat pump included**
- **External sensor for boiler included**
- Suitable for systems with a maximum temperature of 60 °C
- Domestic hot water is produced instantaneously by the boiler
- Included in the supply: water temperature sensors and relay for electrical connection between the heat pump and boiler

(1) Under average climate conditions, low-temperature application, according to EU Regulation 811/2013 and EN 14825.



HEAT PUMP INTERFACE

- *Touch-screen display*
- *Management of operating modes, system components and heating integration systems, parameters setting*
- *Weekly programming by time slots*

Procida Hybrid hybrid system with condensing combi boiler				
Hybrid system model	Code	Condensing boiler model	Heat pump model	Gross weight (*) kg
KC 24 – X6	DSBXX20001	**Antea KC 24**	**Procida AWM X6**	145,5
KC 24 – X8	DSBXX20004	**Antea KC 24**	**Procida AWM X8**	145,5
KC 28 – X6	DSBXX20002	**Antea KC 28**	**Procida AWM X6**	147
KC 28 – X8	DSBXX20005	**Antea KC 28**	**Procida AWM X8**	147
KC 32 – X6	DSBXX20074	**Itaca KC 32**	**Procida AWM X6**	154
KC 32 – X8	DSBXX20075	**Itaca KC 32**	**Procida AWM X8**	154

(*) Gross weight refers to the weight of the heat pump package – boiler – hydraulic unit

System composition

The PROCIDA HYBRID KC package consists of:

Item	Description
	**Instantaneous condensing combi boiler available in the following models:** - ANTEA KC 24 - ANTEA KC 28 - ITACA KC 32
	**Air-to-water monobloc heat pump available in the following models:** -PROCIDA AWM X6 - PROCIDA AWM X8 The following standard accessories are included in the heat pump package: - Touch-screen control interface - Y-strainer filter - Water temperature sensors
	**Integration kit consisting of:** - Bottom hydraulic kit for hybrid system integration - External temperature sensor for condensing boiler - Relay for electrical connection between boiler and heat pump system



ITACA KC with Hybrid buffer kit



ANTEA KC with Hybrid hydraulic buffer kit

ANTEA KC 24 - 28 combinable boiler

Model	Gas type	Code	Heat input		Energy efficiency class		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	Room heating	Heating DHW	mm	kg
KC 24	NATURAL GAS	KIOXX2KC24	23,7	27,3	A	A XL	400x700x250	32,0
	PROPANE	KIOXX6KC24						
KC 28	NATURAL GAS	KIOXX2KC28	26,4	30,4	A	A XL	400x700x250	33,5
	PROPANE	KIOXX6KC28						

ITACA KC 32 combinable boiler

Model	Gas type	Code	Heat input		Energy efficiency class		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	Room heating	Heating DHW	mm	kg
KC 32	NATURAL GAS	KITXX2KC32	30,4	34,5	A	A XXL	420x750x315	40,5
	PROPANE	KITXX6KC32						

Combinable PROCIDA heat pump models

Model	Refrigerant Gas	Code	Power supply	Nominal heating capacity (1)		Seasonal energy efficiency class of ambient heating (2)		Packaging dimensions W x H x D	Gross weight
				Water T 35°C kW	Water T 55°C kW	Water T 35°C	Water T 55°C	mm	kg
AWM X6	R32	DPBXXXAW06	Single-phase	6,00	5,52	A+++	A++	1258x900x488	109
AWM X8	R32	DPBXXXAW08	Single-phase	7,50	6,90	A+++	A++	1258x900x488	109

(1) Outdoor air T 7°C dry bulb/6°C wet bulb
Inlet water T / outlet water T: 30 / 35 °C - Inlet water T / outlet water T: 50 / 55°C
According to EN 14511
(2) According to EN 14825



PROCIDA AWM heat pump

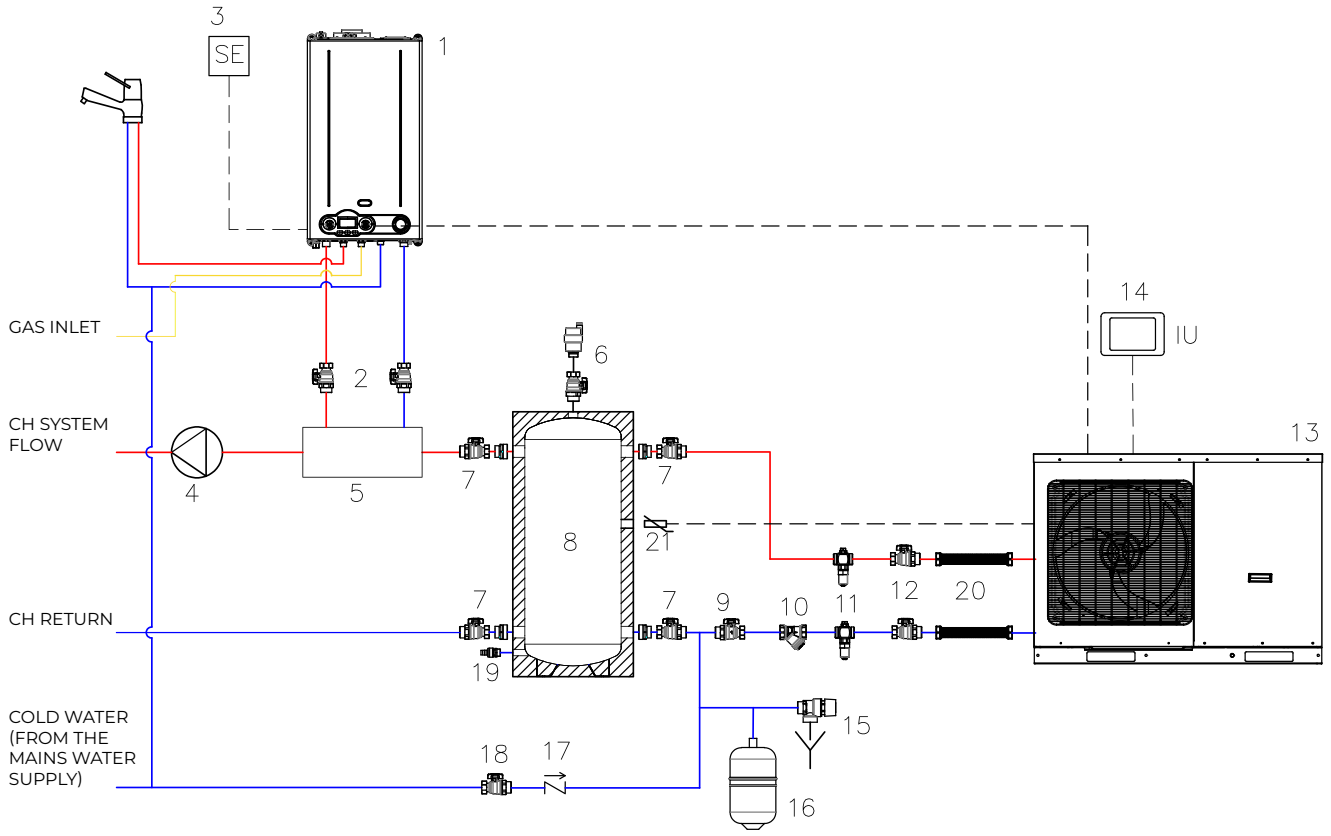


ITACA KC boiler



ANTEA KC boiler

PROCIDA HYBRID KC system Operating diagram



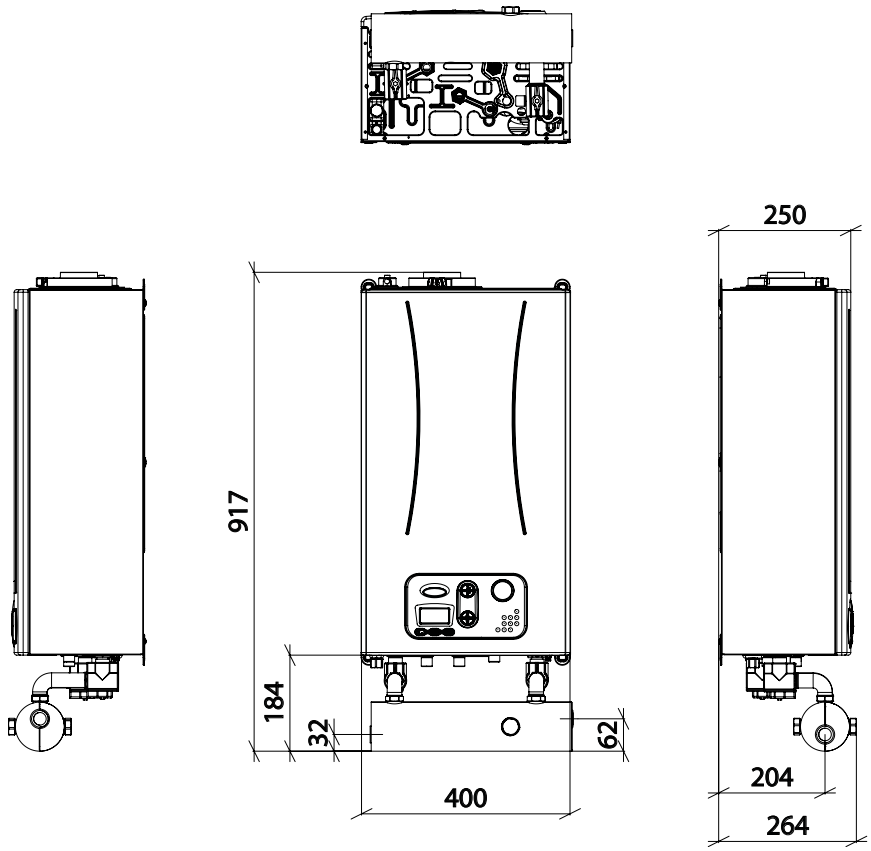
1 Boiler (*)
2 Isolation valves (*)
3 External boiler temperature sensor (*)
4 Secondary circuit pump
5 Hybrid buffer tank (*)
6 Air separator
7 Isolation valves
8 Inertial buffer tank
9 Isolation valve
10 Y-strainer filter (*)
11 Anti-freeze valve
12 1" isolation valves
13 Heat pump (*)
14 User interface (*)
15 Safety valve
16 Expansion vessel
17 Non-return valve
18 Filling valve
19 Drain valve
20 Flexible hose
21 Temperature sensor (*)

(*) Included in the package

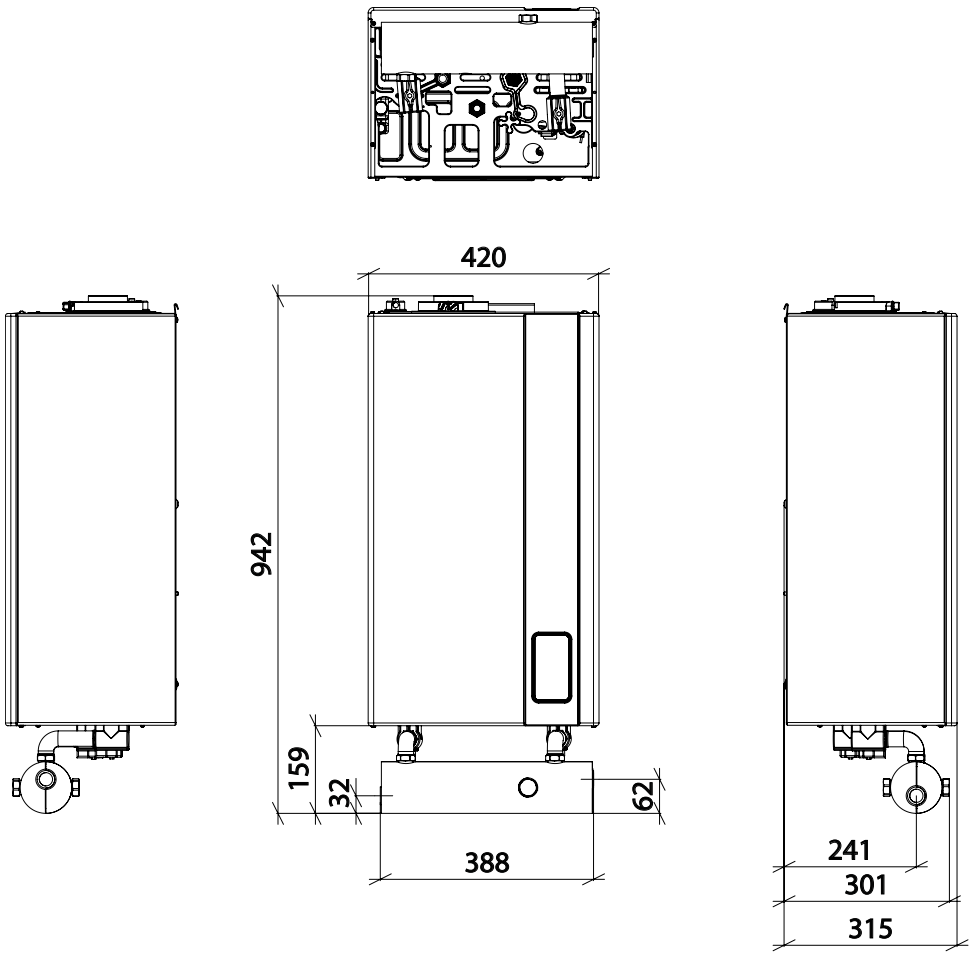
IMPORTANT: AN INERTIAL BUFFER TANK MUST BE SELECTED FOR THE SYSTEM TO OPERATE CORRECTLY.

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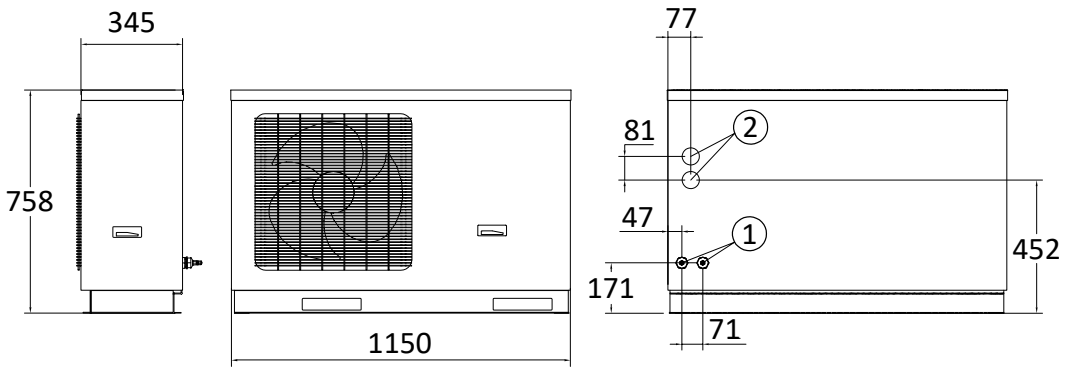
Overall dimensions of ANTEA KC with Hybrid hydraulic buffer kit



Overall dimensions of ITACA KC with Hybrid hydraulic buffer kit



Overall dimensions of PROCIDA AWM



mod. Procida AWM X6 - X8

1 Water inlet/outlet connections
2 Electrical connections

ENERGY EFFICIENCY CLASSES OF PROCIDA HYBRID SYSTEMS

PROCIDA HYBRID KC 24		
Package	**AWM X6**	**AWM X8**
Seasonal energy efficiency class of ambient heating	A	A
Energy efficiency class of water heating	A	A
Stated load profile	XL	XL

PROCIDA HYBRID KC 28		
Package	**AWM X6**	**AWM X8**
Seasonal energy efficiency class of ambient heating	A	A
Energy efficiency class of water heating	A	A
Stated load profile	XL	XL

PROCIDA HYBRID KC 32		
Package	**AWM X6**	**AWM X8**
Seasonal energy efficiency class of ambient heating	A	A
Energy efficiency class of water heating	A	A
Stated load profile	XXL	XXL

Data referred to average climate conditions and medium temperature according to Regulation (EU) No. 811/2013

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Technical data ANTEA KC 24 - 28			
Technical data	**um**	**KC 24**	**KC 28**
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat input (Qr)	kW	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3	30,4
Specific DHW flow ΔT=30K	l/min	13,4	15,0
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

Technical data ITACA KC 32		
Technical data	**um**	**KC 32**
Nominal heat input (Qn)	kW	30,4
Nominal heat output (80-60°C) (Pn)	kW	29,4
Heat output (50-30°C)	kW	32,3
Reduced heat input (Qr)	kW	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8
Useful efficiency at nominal input (50-30°C)	%	106,2
Useful efficiency at 30% (30°C return)	%	108,3
Heating expansion vessel capacity	l	10
DHW nominal heat input	kW	34,5
Specific DHW flow ΔT=30K	l/min	16,2
NOx emission class	-	6
Electric protection rating	IP	IPX5D

TECHNICAL DATA PROCIDA AWM HEAT PUMPS			
Technical data	**um**	**AWM X6**	**AWM X8**
Dimensions (W x H x D)	mm	1150x758x345	1150x758x345
Net weight	kg	96	96
Gross weight	kg	109	109
Water inlet/outlet connection	inches	G1	G1
Refrigerant Gas	-	R32	R32
GWP	-	675	675
Refrigerant gas charge content	kg/tonnes of CO_2 eq	0,87 / 0,59	0,87 / 0,59
Sound power level, outdoors L_{WA}	dB (A)	64	65
Sound pressure (*)	dB (A)	50	51
Expansion vessel capacity	l	2	2
Safety valve pressure	bar	3	3
System water minimum content	l	40	40
System water minimum flow rate	l/min	9,2	9,2
Water nominal flow rate at water T of 35°C / 45°C	m^3/h	0,69/0,69	1,25/1,24
Circulation pump - max head	m	PWM - 7.5	PWM - 7.5
Compressor	-	Twin rotary inverter	Twin rotary inverter
Variable speed fan	no.	1	1
Air flow rate	m^3/h	2600	2600
Evaporator (plate exchanger)	no.	1	1
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240
Rated current	A	10,4	10,4
Electric protection rating	IP	IPX4	IPX4

HEATING PERFORMANCE - ACCORDING TO EN 14511

Water flow / return T: 35 / 30°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,20	5,00
AWM X8	7,50	1,63	4,60

Water flow / return T: 45 / 40°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,58	3,80
AWM X8	7,50	2,00	3,75

PROCIDA HYBRID KRB

COMPACT HYBRID SYSTEM WITH DOMESTIC HOT WATER PRODUCTION WITH STORAGE TANK
THE SYSTEM IS COMPOSED OF AN AIR-TO-WATER MONOBLOC HEAT PUMP, A HEATING-ONLY CONDENSING BOILER, AND A DOMESTIC HOT WATER STORAGE TANK



Boiler available in the following models:

24 28 32

Heat pump available in the following models:

6 8

Tank available in the following capacities (l):

200 300

- **A+++ class air-to-water monobloc heat pump (1)**
- **Condensing only heating boiler in energy class A with integrated three-way valve**
- **Bottom hydraulic kit for integration and DHW tank**
- **DHW comes from a DHW tank supplied by the heat pump and the boiler – meeting the 50% requirement for DHW to be produced from renewable energy**
- **Standard touch-screen control panel for the heat pump, designed for remote installation inside the dwelling**
- **Y-strainer filter for heat pump included**
- **External sensor for boiler included**
- Suitable for systems with a maximum temperature of 60 °C
- Included in the supply: water temperature sensors and relay for electrical connection between the heat pump and boiler

(1) Under average climate conditions, low-temperature application, according to EU Regulation 811/2013 and EN 14825.



HEAT PUMP INTERFACE

- *Touch-screen display*
- *Management of operating modes, system components and heating integration systems, parameters setting*
- *Weekly programming by time slots*

Procida Hybrid hybrid system with KRB heating-only condensing boiler				
Hybrid system model	Code	Condensing boiler model	Heat pump model	Gross weight (*) kg
KRB 24 - X6 - 200	DSBXX20019	**Antea KRB 24**	**Procida AWM X6**	248
KRB 24 - X6 - 300	DSBXX20022	**Antea KRB 24**	**Procida AWM X6**	282
KRB 24 - X8 - 200	DSBXX20025	**Antea KRB 24**	**Procida AWM X8**	248
KRB 24 - X8 - 300	DSBXX20028	**Antea KRB 24**	**Procida AWM X8**	282
KRB 28 - X6 - 200	DSBXX20020	**Antea KRB 28**	**Procida AWM X6**	249,5
KRB 28 - X6 - 300	DSBXX20023	**Antea KRB 28**	**Procida AWM X6**	283,5
KRB 28 - X8 - 200	DSBXX20026	**Antea KRB 28**	**Procida AWM X8**	249,5
KRB 28 - X8 - 300	DSBXX20029	**Antea KRB 28**	**Procida AWM X8**	283,5
KRB 32 - X6 - 200	DSBXX20079	**Itaca KRB 32**	**Procida AWM X6**	256
KRB 32 - X6 - 300	DSBXX20080	**Itaca KRB 32**	**Procida AWM X6**	290
KRB 32 - X8 - 200	DSBXX20081	**Itaca KRB 32**	**Procida AWM X8**	256
KRB 32 - X8 - 300	DSBXX20082	**Itaca KRB 32**	**Procida AWM X8**	290

(*) Gross weight refers to the weight of the heat pump package – boiler – hydraulic unit – hot water storage tank.

System composition

The PROCIDA HYBRID KRB package consists of:

Item	Description
	**KRB heating-only condensing boiler designed for operation in combination with a DHW tank for domestic hot water production, in the following models:** - ANTEA KRB 24 - ANTEA KRB 28 - ITACA KRB 32
	**Air-to-water monobloc heat pump available in the following models:** - PROCIDA AWM X6 - PROCIDA AWM X8 The following standard accessories are included in the heat pump package: - Touch-screen control interface - Y-strainer filter - Water temperature sensors
	- Water temperature sensors - WHDHP SS 200 - WHDHP SS 300
	**Integration kit consisting of:** - Bottom hydraulic kit for hybrid system integration - External temperature sensor for condensing boiler - Three-way diverter valve for connection of the heat pump and DHW tank for domestic hot water production - Heat exchanger coil for boiler–DHW tank interface for domestic hot water production - Relay for electrical connection between boiler and heat pump system



ITACA KRB with Hybrid hydraulic buffer kit



ANTEA KRB with Hybrid hydraulic buffer kit

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ANTEA KRB 24 - 28 boiler for combination

Model	Gas type	Code	Heat input		Energy efficiency class	W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	Room heating	mm	kg
KRB 24	NATURAL GAS	KIOXX2KU24	23,7	27,3 (*)	A	400x700x250	31,0
	PROPANE	KIOXX6KU24					
KRB 28	NATURAL GAS	KIOXX2KU28	26,4	30,4 (*)	A	400x700x250	32,5
	PROPANE	KIOXX6KU28					

(*) with connected tank

ITACA KRB 32 boiler for combination

Model	Gas type	Code	Heat input		Energy efficiency class	W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	Room heating	mm	kg
KRB 32	NATURAL GAS	KITXX2KU32	30,4	34,5 (*)	A	420x750x315	40,0
	PROPANE	KITXX6KU32					

(*) with connected tank

Combinable PROCIDA heat pump models

Model	Refrigerant Gas	Code	Power supply	Nominal heating capacity (1)		Seasonal energy efficiency class of ambient heating (2)		Packaging dimensions W x H x D	Gross weight
				Water T 35°C kW	Water T 55°C kW	Water T 35°C	Water T 55°C	mm	kg
AWM X6	R32	DPBXXXAW06	Single-phase	6,00	5,52	A+++	A++	1258x900x488	109
AWM X8	R32	DPBXXXAW08	Single-phase	7,50	6,90	A+++	A++	1258x900x488	109

(1) Outdoor air T 7°C dry bulb/6°C wet bulb
Inlet water T / outlet water T: 30 / 35 °C - Inlet water T / outlet water T: 50 / 55°C
According to EN 14511
(2) According to EN 14825



PROCIDA AWM heat pump

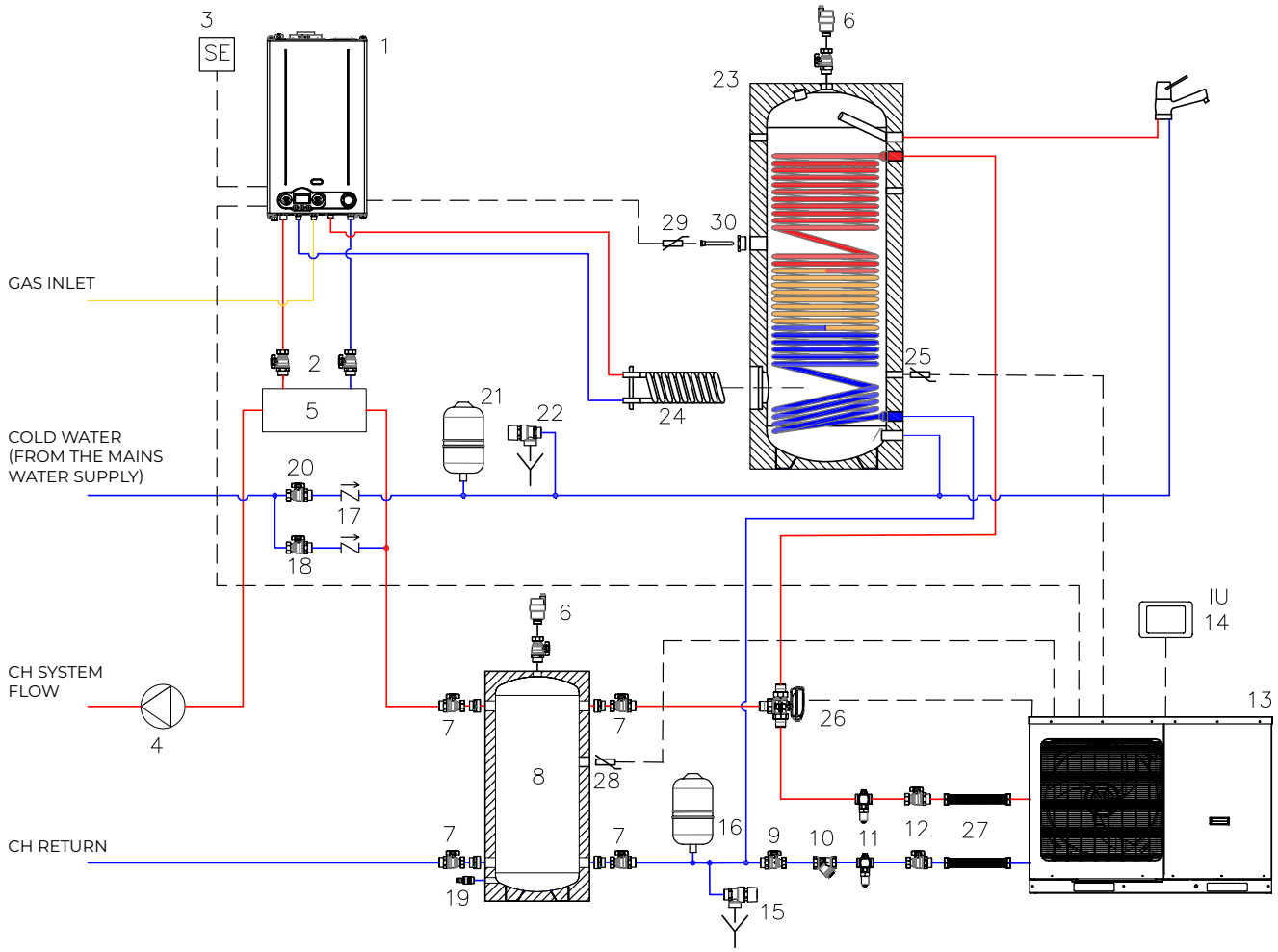


Boiler ITACA KRB



Boiler ANTEA KRB

PROCIDA HYBRID KRB system Operating diagram



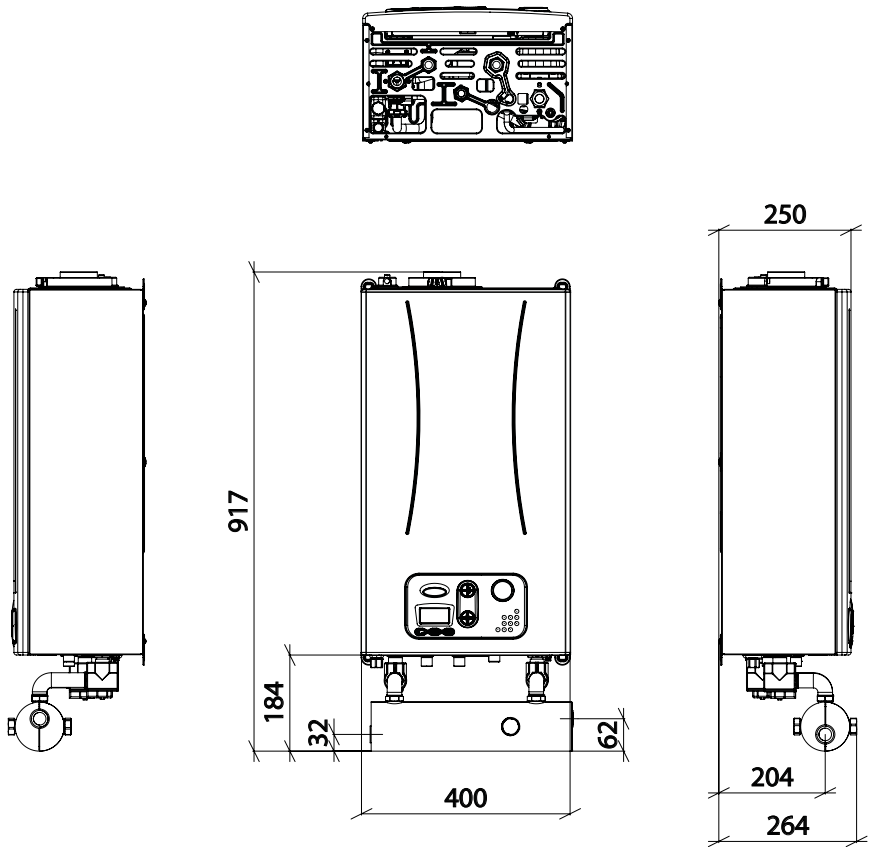
1 Boiler (*)
2 Boiler shut-off valves (*)
3 External boiler temperature sensor (*)
4 System pump
5 Hydraulic separator for hybrid integration (*)
6 Air separator
7 Isolation valves
8 Inertial buffer tank
9 Isolation valve
10 Y-strainer (supplied with the heat pump) (*)
11 Anti-freeze valve
12 Isolation valve
13 Heat pump (*)
14 User interface (*)
15 Safety valve
16 System expansion vessel
17 Non-return valve
18 Isolation valve
19 Isolation valve
20 Isolation valve
21 DHW expansion tank
22 DHW safety valve
23 DHW tank (*)
24 Heat exchanger coil for boiler (*)
25 DHW tank sensor for heat pump (supplied with the heat pump) (*)
26 Diverter valve for heat pump (*)
27 Flexible hoses
28 Buffer tank temperature sensor for heat pump (supplied with the heat pump) (*)
29 Boiler sensor for DHW tank (*)
30 Sensor holder and reducer (*)

(*) Included in the package

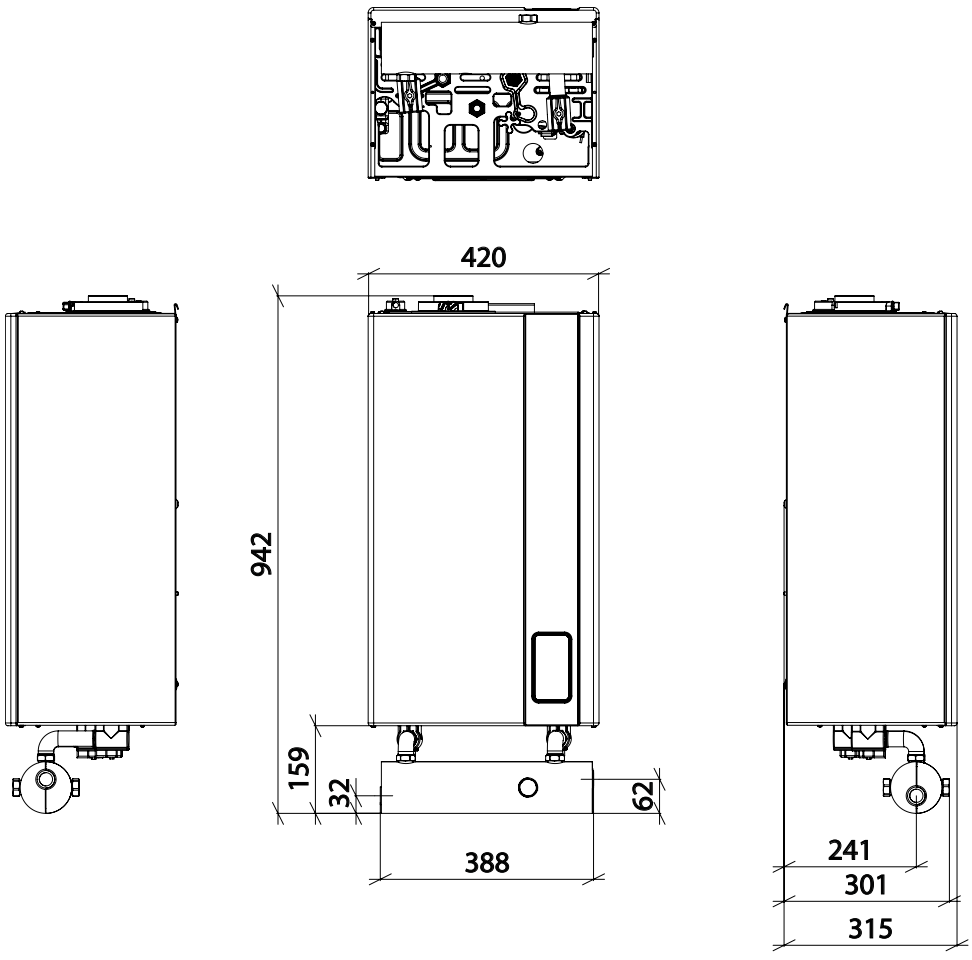
IMPORTANT: AN INERTIAL BUFFER TANK MUST BE SELECTED FOR THE SYSTEM TO OPERATE CORRECTLY.

fondital

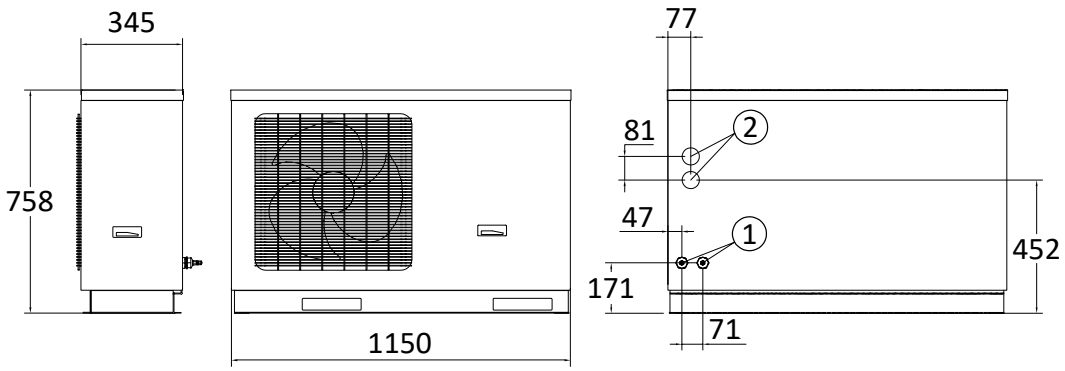
Overall dimensions ANTEA KRB with Hybrid hydraulic buffer kit



Overall dimensions ITACA KRB with Hybrid hydraulic buffer kit



Overall dimensions of PROCIDA AWM



mod. Procida AWM X6 - X8

1 Water inlet/outlet connections
2 Electrical connections

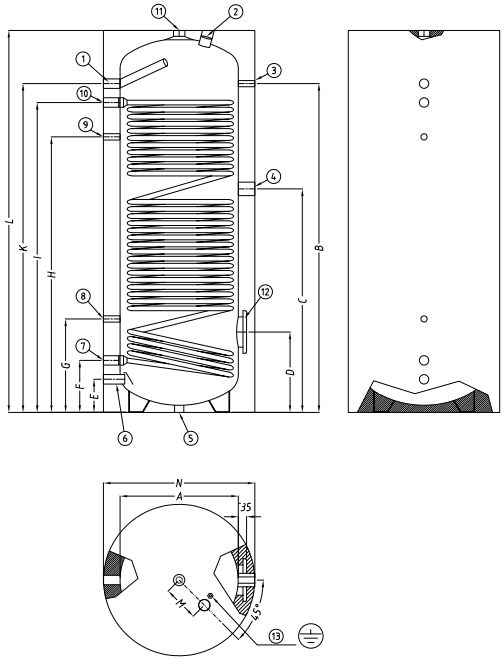
DHW tank models combined for domestic hot water production WHDHP SS

Model	Code	Energy efficiency class	Heat loss (S)	Storage volume (V)	Coil area	Dimensions D x H	Empty gross weight
			W	l	m²	mm	kg
200 SS	DBOLLPDC03	B	51	190	3	640x1215	96
300 SS	DBOLLPDC04	B	63	263	4	640x1615	130

Technical data	um	200 SS	300 SS
Insulation thickness	mm	70	70
Coil water content	l	17	23
Empty net weight	kg	90	124
Maximum DHW working pressure	bar	10	10
Maximum CH working pressure	bar	10	10
Maximum working temperature	°C	95	95

DIMENSIONS AND CONNECTION CENTRE DISTANCES

mod. WHDHP-200-300-SS



Ref.	200 SS	300 SS
A	500 mm	500 mm
B	995 mm	1390 mm
C	735 mm	945 mm
D	320 mm	340 mm
E	140 mm	140 mm
F	220 mm	220 mm
G	370 mm	395 mm
H	835 mm	1165 mm
I	990 mm	1310 mm
K	1070 mm	1390 mm
L	1215 mm	1615 mm
M	150 mm	150 mm
N	640 mm	640 mm
1 - DHW flow	1" F	
2 - Magnesium anode (included)	1 1/4" F	
3 - Thermometer (included)	1/2" F	
4 - Heating element connection	1 1/2" F	
5 - Bench connection	1/2" F	
6 - Cold water inlet	1" F	
7 - Coil return	1" F	1 1/4" F
8 - Holder for probe	1/2" F	
9 - Recirculation	1/2" F	
10 - Coil flow	1" F	1 1/4" F
11 - DHW flow	1 1/4" F	1 1/4" F
12 - Flange	180/120 mm	
13 - Grounding system	M6 nut	

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ENERGY EFFICIENCY CLASSES OF PROCIDA HYBRID KRB SYSTEMS

PROCIDA HYBRID KRB 24				
Package	**X6-200**	**X8-200**	**X6-300**	**X8-300**
Seasonal energy efficiency class of ambient heating				
Energy efficiency class of water heating				
Stated load profile	XL	XL	XL	XL

PROCIDA HYBRID KRB 28		
Package	**X6-200**	**X8-200**
Seasonal energy efficiency class of ambient heating		
Energy efficiency class of water heating		
Stated load profile	XL	XL

PROCIDA HYBRID KRB 28		
Package	**X6-300**	**X8-300**
Seasonal energy efficiency class of ambient heating		
Energy efficiency class of water heating		
Stated load profile	XL	XL

PROCIDA HYBRID KRB 32		
Package	**X6-200**	**X8-200**
Seasonal energy efficiency class of ambient heating		
Energy efficiency class of water heating		
Stated load profile	XL	XL

PROCIDA HYBRID KRB 32		
Package	**X6-300**	**X8-300**
Seasonal energy efficiency class of ambient heating		
Energy efficiency class of water heating		
Stated load profile	XL	XL

Data referred to average climate conditions and medium temperature according to Regulation (EU) No. 811/2013

TECHNICAL DATA ANTEA KRB			
Technical data	**um**	**KRB 24**	**KRB 28**
Nominal heat input (Qn)	kW	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat input (Qr)	kW	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3 (*)	30,4 (*)
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

(*) with connected tank

TECHNICAL DATA ITACA KRB		
Technical data	**um**	**KRB 32**
Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe)	%	96
Nominal heat input (Qn)	kW	30,4
Nominal heat output (80-60°C) (Pn)	kW	29,4
Heat output (50-30°C)	kW	32,3
Reduced heat input (Qr)	kW	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8
Useful efficiency at nominal input (50-30°C)	%	106,2
Useful efficiency at 30% (30°C return)	%	108,3
Heating expansion vessel capacity	l	10
DHW nominal heat input	kW	34,5 (*)
NOx emission class	-	6
Electric protection rating	IP	IPX5D

(*) with connected tank

TECHNICAL DATA PROCIDA AWM HEAT PUMPS

Technical data	um	AWM X6	AWM X8
Dimensions (W x H x D)	mm	1150x758x345	1150x758x345
Net weight	kg	96	96
Gross weight	kg	109	109
Water inlet/outlet connection	inches	G1	G1
Refrigerant Gas	-	R32	R32
GWP	-	675	675
Refrigerant gas charge content	kg/tonnes of CO_2 eq	0,87 / 0,59	0,87 / 0,59
Sound power level, outdoors L_{WA}	dB (A)	64	65
Sound pressure (*)	dB (A)	50	51
Expansion vessel capacity	l	2	2
Safety valve pressure	bar	3	3
System water minimum content	l	40	40
System water minimum flow rate	l/min	9,2	9,2
Water nominal flow rate at water T of 35°C / 45°C	m^3/h	0,69/0,69	1,25/1,24
Circulation pump - max head	m	PWM - 7.5	PWM - 7.5
Compressor	-	Twin rotary inverter	Twin rotary inverter
Variable speed fan	no.	1	1
Air flow rate	m^3/h	2600	2600
Evaporator (plate exchanger)	no.	1	1
Power supply voltage/frequency	V/Ph/Hz	230/1/50	230/1/50
Voltage range	V	220 - 240	220 - 240
Rated current	A	10,4	10,4
Electric protection rating	IP	IPX4	IPX4

HEATING PERFORMANCE - ACCORDING TO EN 14511

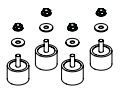
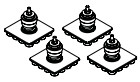
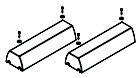
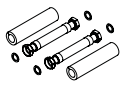
Water flow / return T: 35 / 30°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,20	5,00
AWM X8	7,50	1,63	4,60

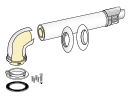
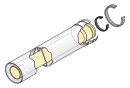
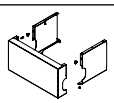
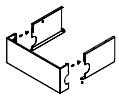
Water flow / return T: 45 / 40°C
Outdoor air T 7°C dry bulb

Model	Nominal heating capacity	Nominal electric power input	COP
	kW	kW	
AWM X6	6,00	1,58	3,80
AWM X8	7,50	2,00	3,75

Heat pump accessories

Item	Description	Code
	Kit of base vibration-damping feet / 4 pcs Standard installation. Nuts and washers for assembly are included.	DKPIEBAS00
	Kit of spring vibration-damping feet + rubber support / 4 pcs Balcony installation. Nuts and washers for assembly are included. Including two pairs of feet featuring different rigidity for inverter side pump balancing.	DKPIEMOL00
	Kit of rubber support bars / 2pcs – Length 450 mm. Installations to keep 9.5 cm ground clearance. Including fixing screws and washers. **SUITABLE FOR PROCIDA AWM X6 – X8** **SUITABLE FOR PROCIDA AWS 4 (O) – 6 (O) – 8 (O) – 10 (O)**	DKBARSUP00
	Kit of 1" F-F L 200 mm flexible pipes / 2pcs Including insulation to be installed	DKTUBIFL00
	Kit of 1" M-F taps / 2pcs Including 1" gaskets	DKRUBINE00
	Kit of 1" M connection freeze protection valve / 1pc **WARNING** two valves must be installed: one for delivery and one for return.	DKVALANT00
	Kit of 1" nipples / 2pcs	DKNIPPLE00
	Kit of 1" sleeves / 2pcs	DKMANICT00
	Kit of 1" 1/4 - 1" connections / 2 pcs	DKRACCOR00

Boiler accessories

Item	Description	Code
	Splitter kit Ø80+80	0KITSDOP08
	Extension M/F Ø80 L=1 m	0PROLUNG00
	Extension M/F Ø80 L=0.5 m	0PROLUNG01
	90° elbow M/F Ø80	0CURVAXX02
	Suction opening Ø80	0GRIGASP01
	Flue vent terminal Ø80 L=1m	0TERMSCA00
	Coaxial fitting kit Ø60/100	0KITATCO00
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
	Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03
	90° elbow M/F coaxial Ø60/100	0CURVAXX05
	Lower casing cover kit-Antea boiler (the casing consists of 3 pieces to be assembled.)	0KITCART00
	Lower casing cover kit-Formentera boiler (the casing consists of 3 pieces to be assembled.)	0KITCART01

FANCOILS

FANCOILS

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AURAL SPLIT page 82

AURAL ONE

HYDRONIC FANCOIL UNIT WITH CABINET
PERFECT SOLUTION FOR HEATING AND COOLING
MOTOR WITH DC INVERTER TECHNOLOGY
AVAILABLE WITH LEFT OR RIGHT HYDRAULIC CONNECTIONS
5 DIFFERENT POWER SIZES



- **Only 129 mm deep**
- **Modern and elegant design**
- **Extremely silent**
- **Reduced electricity consumption**
- **Modulated air flow**
- **Wide range of controls matchable to the units**
- **Ceiling-mounted with condensation drip tray accessory**
- Super Silence' tangential fan for maximum silence
- External cover in high-strength galvanised and painted sheet metal, colour RAL9003
- Copper-aluminium heat exchange coil and brass manifolds with integrated air vent
- Honeycomb air filter easy to remove for cleaning
- 3/4'' Eurocone hydraulic connections. Right or left connection versions available
- Installation jig and wall mounting brackets supplied

Available in the following models:

20 40 60 80 100



BASIC ON-BOARD MACHINE USER INTERFACE

- *Fixed 4-speed control*



PREMIUM ON-BOARD MACHINE USER INTERFACE

- *Modulating speed control*
- *Touch screen interface*

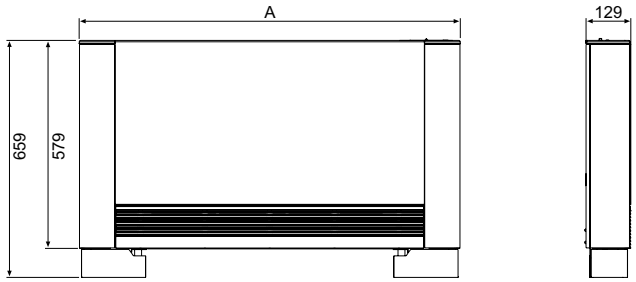


WALL-MOUNTED USER INTERFACE

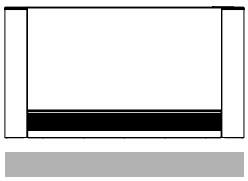
- *Modulating speed control*
- *Touch screen interface*
- *Manages up to 30 units*
- *RS 485 Port*
- *Available in black or white version*

Model	Code	Hydraulic connections side	Dimensions W x H x D	Gross weight
			mm	kg
One 20	LAU0MPV02S	LH	725x579x129	18
	LAU0MPV02D	RH		
One 40	LAU0MPV04S	LH	925x579x129	21
	LAU0MPV04D	RH		
One 60	LAU0MPV06S	LH	1125x579x129	24
	LAU0MPV06D	RH		
One 80	LAU0MPV08S	LH	1325x579x129	27
	LAU0MPV08D	RH		
One 100	LAU0MPV0AS	LH	1525x579x129	30
	LAU0MPV0AD	RH		

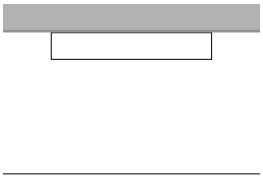
DIMENSIONS



Wall-mounted installation



Ceiling installation (with drip tray accessory)

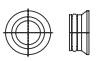


Dimensions	um	ONE 20	ONE 40	ONE 60	ONE 80	ONE 100
A	mm	725	925	1125	1325	1525

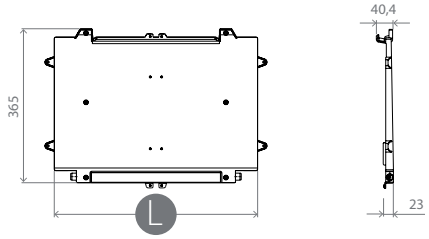
Technical data	um	ONE 20	ONE 40	ONE 60	ONE 80	ONE 100
THERMAL DATA IN COOLING 7/12 (1)						
Total cooling capacity	kW	0,91	2,12	2,81	3,30	3,71
Sensible cooling power	kW	0,71	1,54	2,11	2,65	2,90
Cooling water flow rate	l/h	156	363	481	565	636
Cooling water pressure drop	kPa	12,1	8,2	17,1	18,0	21,2
THERMAL DATA IN HEATING 45/40 (2)						
Heating output	kW	1,02	2,21	3,02	3,81	4,32
Heating water flow rate	l/h	180	390	532	672	762
Water pressure drop in heating	kPa	9,1	9,2	19,1	21,2	23,3
THERMAL DATA IN HEATING 70/60 (3)						
Heating output	kW	2,06	4,43	5,95	7,68	8,71
Heating water flow rate	l/h	182	390	523	676	767
Water pressure drop in heating	kPa	8,8	8,9	18,3	20,4	22,4
HYDRAULIC DATA						
Coil water content	l	0,47	0,80	1,13	1,46	1,80
Maximum pressure	bar	10				
Hydraulic connections	-	3/4" EUROCONE				
AERAULIC DATA (4)						
Air flow rate at maximum speed	m³/h	146	294	438	567	663
Air flow rate at medium speed (AUTO mode)	m³/h	90	210	318	410	479
Air flow rate at minimum speed	m³/h	49	118	180	247	262
Maximum available static pressure	Pa	10	10	13	13	13
ELECTRIC DATA						
Supply voltage	V/ph/Hz	230/1/50				
Maximum electrical power consumption	W	11	19	20	29	33
Maximum absorbed power	A	0,11	0,16	0,18	0,26	0,28
Maximum electrical power at minimum speed	W	5	4	6	5	6
ACOUSTIC DATA						
Sound power at maximum speed (5)	dB(A)	54	54	54	55	57
Sound pressure at maximum speed (6)	dB(A)	41	42	44	46	47
Sound pressure at average speed (6)	dB(A)	33	34	34	35	38
Sound pressure at minimum speed (6)	dB(A)	24	25	26	26	28

(1) Water temperature 7/12°C, room temperature 27°C d.b. and 19°C w.b. (according to EN1397)
(2) Water temperature 45/40°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(3) Water temperature 70/60°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(4)Flow rate measured with clean filters
(5)Sound power measured according to EN16583
(6)Sound pressure measured at a distance of 1 m according to ISO7779

Item	Description	Code
	Basic on-board machine - 4 speeds	LACOBOMA01
	Premium on-board machine - modulating speed	LACOBOMA00
	On-board electronic board for wall control connection (LACOMPAR00 and LACOMPAR01)	LASCHEDA00
	Wall-mounted black (to be combined with LASCHEDA00 board)	LACOMPAR00
	Wall-mounted white (to be combined with LASCHEDA00 board)	LACOMPAR01

Item	Description	Code
	On-board electronic board for 3-speed thermostats connection	LASCHEDA01
	Lockshield assembly - 2-way motor valve	LAGRUPDE01
	Lockshield assembly - 3-way motor valve	LAGRUPDE00
	Adapters for flat gasket	LAGUAPIA00
	Aesthetic feet	LAPIEDIN00

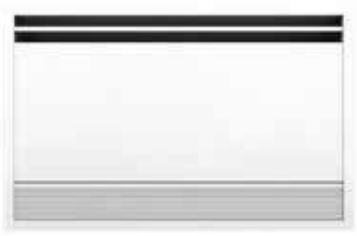
Horizontal ceiling condensation drip tray accessory



Description	L(mm)	Code
Condensation drip tray for ceiling installation 20	481	LABACOND00
Condensation drip tray for ceiling installation 40	681	LABACOND01
Condensation drip tray for ceiling installation 60	881	LABACOND02
Condensation drip tray for ceiling installation 80	1081	LABACOND03
Condensation drip tray for ceiling installation 100	1281	LABACOND04

AURAL IN

BUILT-IN HYDRONIC FANCOIL
PERFECT SOLUTION FOR HEATING AND COOLING
MOTOR WITH DC INVERTER TECHNOLOGY
AVAILABLE WITH LEFT OR RIGHT HYDRAULIC CONNECTIONS
5 DIFFERENT POWER SIZES



- **Wall or ceiling installation**
- **Reduced depth for installation in any wall and false ceiling**
- **Extremely silent**
- **Reduced electricity consumption**
- **Modulated air flow**
- **Wide range of accessories to allow maximum installation versatility**
- Super Silence' tangential fan for maximum silence
- Copper-aluminium heat exchange coil and brass manifolds with integrated air vent
- Honeycomb air filter easy to remove for cleaning
- 3/4" Eurocone hydraulic connections. Right or left connection versions available
- Standard condensate drip tray

Available in the following models:

20 40 60 80 100

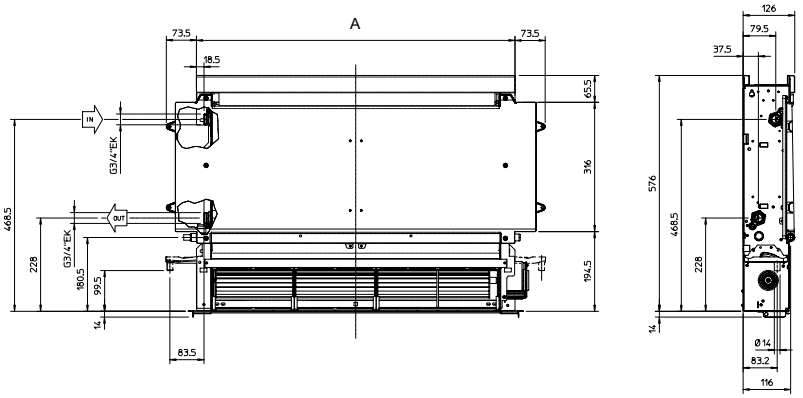


WALL-MOUNTED USER INTERFACE

- *Modulating speed control*
- *Touch screen interface*
- *Manages up to 30 units*
- *RS 485 Port*
- *Available in black or white version*

Model	Code	Hydraulic connections side	Dimensions W x H x D	Gross weight
			mm	kg
In 20	LAU0MIN02S	LH	525x576x126	10
	LAU0MIN02D	RH		
In 40	LAU0MIN04S	LH	725x576x126	13
	LAU0MIN04D	RH		
In 60	LAU0MIN06S	LH	925x576x126	16
	LAU0MIN06D	RH		
In 80	LAU0MIN08S	LH	1125x576x126	19
	LAU0MIN08D	RH		
In 100	LAU0MIN0AS	LH	1325x576x126	22
	LAU0MIN0AD	RH		

DIMENSIONS



Dimensions	um	IN 20	IN 40	IN 60	IN 80	IN 100
A	mm	378	578	778	978	1178

Technical data	um	IN 20	IN 40	IN 60	IN 80	IN 100
THERMAL DATA IN COOLING 7/12 (1)						
Total cooling capacity	kW	0,91	2,12	2,81	3,30	3,71
Sensible cooling power	kW	0,71	1,54	2,11	2,65	2,90
Cooling water flow rate	l/h	156	363	481	565	636
Cooling water pressure drop	kPa	12,1	8,2	17,1	18,0	21,2
THERMAL DATA IN HEATING 45/40 (2)						
Heating output	kW	1,02	2,21	3,02	3,81	4,32
Heating water flow rate	l/h	180	390	532	672	762
Water pressure drop in heating	kPa	9,1	9,2	19,1	21,2	23,3
THERMAL DATA IN HEATING 70/60 (3)						
Heating output	kW	2,06	4,43	5,95	7,68	8,71
Heating water flow rate	l/h	182	390	523	676	767
Water pressure drop in heating	kPa	8,8	8,9	18,3	20,4	22,4
HYDRAULIC DATA						
Coil water content	l	0,47	0,80	1,13	1,46	1,80
Maximum pressure	bar	10				
Hydraulic connections	-	3/4" EUROCONE				
AERAULIC DATA (4)						
Air flow rate at maximum speed	m³/h	146	294	438	567	663
Air flow rate at medium speed (AUTO mode)	m³/h	90	210	318	410	479
Air flow rate at minimum speed	m³/h	49	118	180	247	262
Maximum available static pressure	Pa	10	10	13	13	13
ELECTRIC DATA						
Supply voltage	V/ph/Hz	230/1/50				
Maximum electrical power consumption	W	11	19	20	29	33
Maximum absorbed power	A	0,11	0,16	0,18	0,26	0,28
Maximum electrical power at minimum speed	W	5	4	6	5	6
ACOUSTIC DATA						
Sound power at maximum speed (5)	dB(A)	54	54	54	55	57
Sound pressure at maximum speed (6)	dB(A)	41	42	44	46	47
Sound pressure at average speed (6)	dB(A)	33	34	34	35	38
Sound pressure at minimum speed (6)	dB(A)	24	25	26	26	28

(1) Water temperature 7/12°C, room temperature 27°C d.b. and 19°C w.b. (according to EN1397)
(2) Water temperature 45/40°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(3) Water temperature 70/60°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(4)Flow rate measured with clean filters
(5)Sound power measured according to EN16583
(6)Sound pressure measured at a distance of 1 m according to ISO7779



BUILT-IN CONFIGURATION OPTIONS

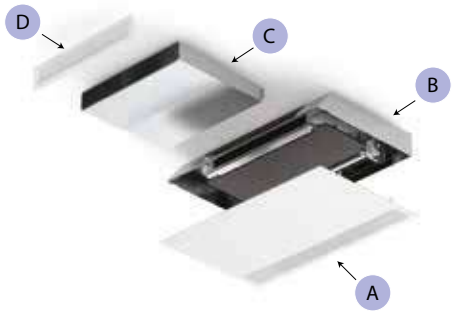
Wall built-in installation



A Vertical installation frame panel.
Cod. LAPANVER00 ÷ LAPANVER04

B Built-in frame panel.
Cod. LATELINC00 ÷ LATELINC04

Ceiling built-in installation



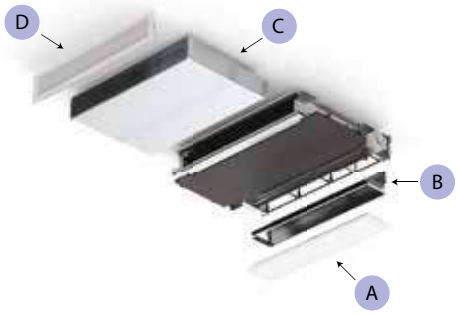
A Horizontal installation frame panel
Cod. LAPANORI00 ÷ LAPANORI04

B Built-in frame panel.
Cod. LATELINC00 ÷ LATELINC04

C Telescopic outlet channel.
Cod. LACANMAN00 ÷ LACANMAN04

D Outlet nozzle.
Cod. LABOCMAN00 ÷ LABOCMAN04

Ceiling built-in installation



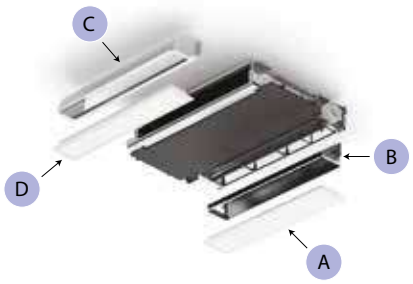
A Aspiration grid.
Cod. LAGRIASP00 ÷ LAGRIASP04

B Air aspiration connection.
Cod. LARACASP00 ÷ LARACASP04

C Telescopic outlet channel.
Cod. LACANMAN00 ÷ LACANMAN04

D Outlet nozzle.
Cod. LABOCMAN00 ÷ LABOCMAN04

Ceiling built-in installation



A Aspiration grid.
Cod. LAGRIASP00 ÷ LAGRIASP04

B Air aspiration connection.
Cod. LARACASP00 ÷ LARACASP04

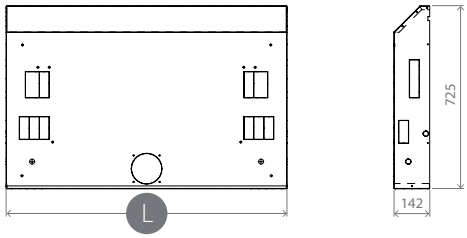
C 90° flow channel.
Cod. LACANMAN05 ÷ LACANMAN09

D Outlet nozzle.
Cod. LABOCMAN00 ÷ LABOCMAN04

Item	Description	Code
	On-board electronic board for wall control connection (LACOMPAR00 and LACOMPAR01)	LASCHEDA00
	Wall-mounted black (to be combined with LASCHEDA00 board)	LACOMPAR00
	Wall-mounted white (to be combined with LASCHEDA00 board)	LACOMPAR01
	On-board electronic board for 3-speed thermostats connection	LASCHEDA01

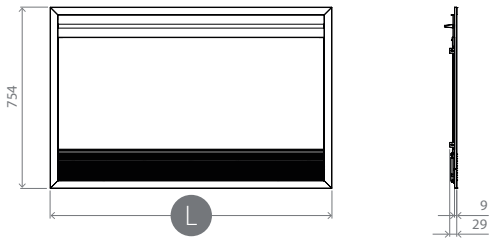
Item	Description	Code
	Lockshield assembly - 2-way motor valve	LAGRUPDE01
	Lockshield assembly - 3-way motor valve	LAGRUPDE00
	Adapters for flat gasket	LAGUAPIA00

Built-in frame panel



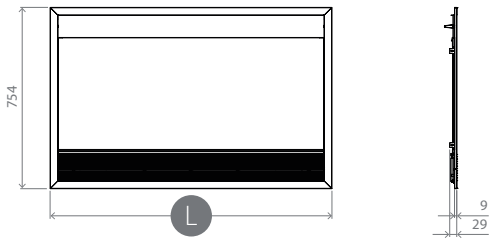
Description	L(mm)	Code
Built-in frame panel 20	714	LATELINC00
Built-in frame panel 40	914	LATELINC01
Built-in frame panel 60	1114	LATELINC02
Built-in frame panel 80	1314	LATELINC03
Built-in frame panel 100	1514	LATELINC04

Frame panel for vertical installation



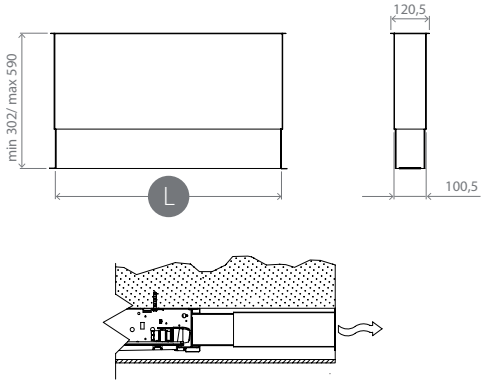
Description	L(mm)	Code
Frame panel vertical installation 20	772	LAPANVER00
Frame panel vertical installation 40	972	LAPANVER01
Frame panel vertical installation 60	1172	LAPANVER02
Frame panel vertical installation 80	1372	LAPANVER03
Frame panel vertical installation 100	1572	LAPANVER04

Frame panel for horizontal installation



Description	L(mm)	Code
Frame panel horizontal installation 20	772	LAPANORI00
Frame panel horizontal installation 40	972	LAPANORI01
Frame panel horizontal installation 60	1172	LAPANORI02
Frame panel horizontal installation 80	1372	LAPANORI03
Frame panel horizontal installation 100	1572	LAPANORI04

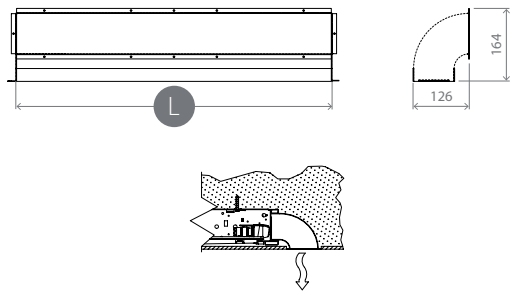
Telescopic outlet channel for horizontal installation in false ceilings



Description	L(mm)	Code
Telescopic outlet channel for horizontal installation in false ceilings 20	307,5	LACANMAN00
Telescopic outlet channel for horizontal installation in false ceilings 40	507,5	LACANMAN01
Telescopic outlet channel for horizontal installation in false ceilings 60	707,5	LACANMAN02
Telescopic outlet channel for horizontal installation in false ceilings 80	907,5	LACANMAN03
Telescopic outlet channel for horizontal installation in false ceilings 100	1107,5	LACANMAN04

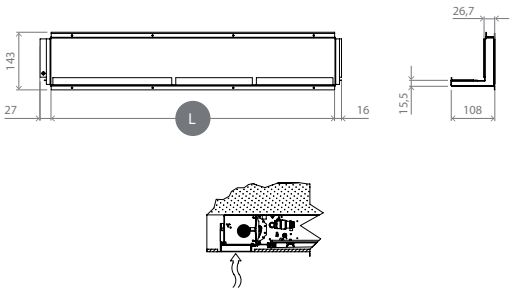
fondital

90° outlet channel for horizontal installation in false ceilings



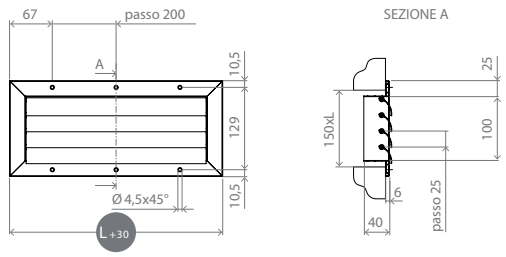
Description	L(mm)	Code
90° flow channel for horizontal installation in false ceilings 20	307,5	LACANMAN05
90° flow channel for horizontal installation in false ceilings 40	507,5	LACANMAN06
90° flow channel for horizontal installation in false ceilings 60	707,5	LACANMAN07
90° flow channel for horizontal installation in false ceilings 80	907,5	LACANMAN08
90° flow channel for horizontal installation in false ceilings 100	1107,5	LACANMAN09

Aspiration air connection



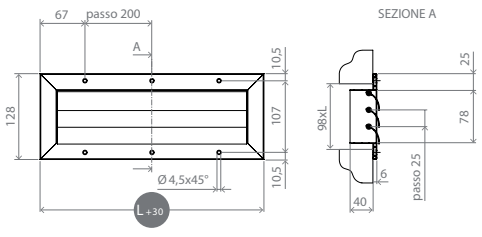
Description	L(mm)	Code
Aspiration air connection 20	305	LARACASP00
Aspiration air connection 40	505	LARACASP01
Aspiration air connection 60	705	LARACASP02
Aspiration air connection 80	905	LARACASP03
Aspiration air connection 100	1105	LARACASP04

Aspiration grid with curved fins



Description	L(mm)	Code
Aspiration grid with curved fins 20	304	LAGRIASP00
Aspiration grid with curved fins 40	504	LAGRIASP01
Aspiration grid with curved fins 60	704	LAGRIASP02
Aspiration grid with curved fins 80	904	LAGRIASP03
Aspiration grid with curved fins 100	1104	LAGRIASP04

Delivery outlet with curved fins



Description	L(mm)	Code
Delivery nozzle with curved fins 20	304	LABOCMAN00
Delivery nozzle with curved fins 40	504	LABOCMAN01
Delivery nozzle with curved fins 60	704	LABOCMAN02
Delivery nozzle with curved fins 80	904	LABOCMAN03
Delivery nozzle with curved fins 100	1104	LABOCMAN04



AURAL SPLIT

HIGH WALL HYDRONIC FANCOIL UNIT
PERFECT SOLUTION FOR HEATING AND COOLING
IDEAL FOR CLEARING FLOOR SPACE FOR FURNITURE
MOTOR WITH DC INVERTER TECHNOLOGY
3 DIFFERENT POWER SIZES



- **Only 128 mm deep**
- **Modern and elegant design**
- **Extremely silent**
- **Reduced electricity consumption**
- **Modulated air flow**
- Super Silence' tangential fan for maximum silence
- Entirely metal structure
- Copper-aluminium heat exchange coil and brass manifolds with integrated air vent
- Honeycomb air filter easy to remove for cleaning
- 3/4'' Eurocone hydraulic connections positioned on the right
- Installation jig and wall mounting brackets supplied



ON-BOARD MACHINE USER INTERFACE

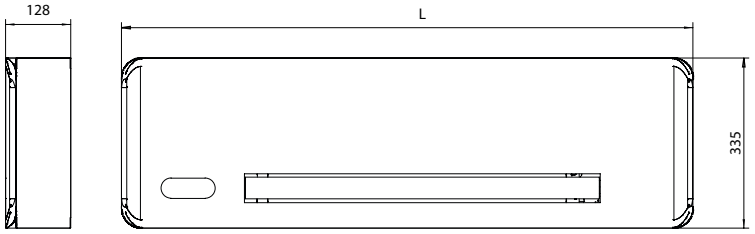
- *Integrated touch screen interface*
- *Infrared remote control included*

Available in the following models:

40 60 80

Model	Code	Hydraulic connections side	Dimensions W x H x D	Gross weight
			mm	kg
Split 40	LAU0MPA04D	RH	927x335x128	15
Split 60	LAU0MPA06D	RH	1127x335x128	17
Split 80	LAU0MPA08D	RH	1327x335x128	20

DIMENSIONS



Dimensions	um	SPLIT 40	SPLIT 60	SPLIT 80
L	mm	927	1127	1327

Technical data	um	SPLIT 40	SPLIT 60	SPLIT 80
THERMAL DATA IN COOLING 7/12 (1)				
Total cooling capacity	kW	1,24	1,61	1,94
Sensible cooling power	kW	0,98	1,27	1,52
Cooling water flow rate	l/h	208	279	365
Cooling water pressure drop	kPa	11,7	5,1	5,3
THERMAL DATA IN HEATING 45/40 (2)				
Heating output	kW	1,50	2,01	2,41
Heating water flow rate	l/h	260	349	451
Water pressure drop in heating	kPa	16,3	7,2	8,1
THERMAL DATA IN HEATING 70/60 (3)				
Heating output	kW	3,03	4,08	4,75
Heating water flow rate	l/h	267	359	418
Water pressure drop in heating	kPa	15,8	7,0	7,9
HYDRAULIC DATA				
Coil water content	l	0,50	0,61	0,77
Maximum pressure	bar	10		
Hydraulic connections	-	3/4" EUROCONE		
AERAULIC DATA (4)				
Air flow rate at maximum speed	m³/h	228	331	440
Air flow rate at medium speed (AUTO mode)	m³/h	155	229	283
Air flow rate at minimum speed	m³/h	84	124	138
Maximum available static pressure	Pa	10	10	10
ELECTRIC DATA				
Supply voltage	V/ph/Hz	230/1/150		
Maximum electrical power consumption	W	19	20	29
Maximum absorbed power	A	0,10	0,12	0,16
Maximum electrical power at minimum speed	W	5	5	5
ACOUSTIC DATA				
Sound power at maximum speed (5)	dB(A)	53	54	55
Sound pressure at maximum speed (6)	dB(A)	40	41	42
Sound pressure at average speed (6)	dB(A)	33	34	34
Sound pressure at minimum speed (6)	dB(A)	25	25	26

(1) Water temperature 7/12°C, room temperature 27°C d.b. and 19°C w.b. (according to EN1397)
(2) Water temperature 45/40°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(3) Water temperature 70/60°C, room temperature 20°C d.b. and 15°C w.b. (according to EN1397)
(4)Flow rate measured with clean filters
(5)Sound power measured according to EN16583
(6)Sound pressure measured at a distance of 1 m according to ISO7779

Item	Description	Code
	Lockshield assembly - 2-way motor valve for Split	LAGRUPDE02
	Adapters for flat gasket	LAGUAPIA00

DISCOVER THE NEW FONDITAL APP!



Spot Easy, the **smart programmable thermostat**, allows you to **control** and **monitor** the operation of your **boiler** and **heating system from anywhere** via a **Wi-Fi connection**.

- Smart multizone system with wireless chronothermostat and e-paper display
- Remote technical support via the cloud
- Controllable with Amazon Alexa and Google Home
- Compatible with existing systems and with all the boilers of the Fondital domestic range



The MySpot Plus app is available free of charge for Apple and Android devices

Download on the App Store

GET IT ON Google Play

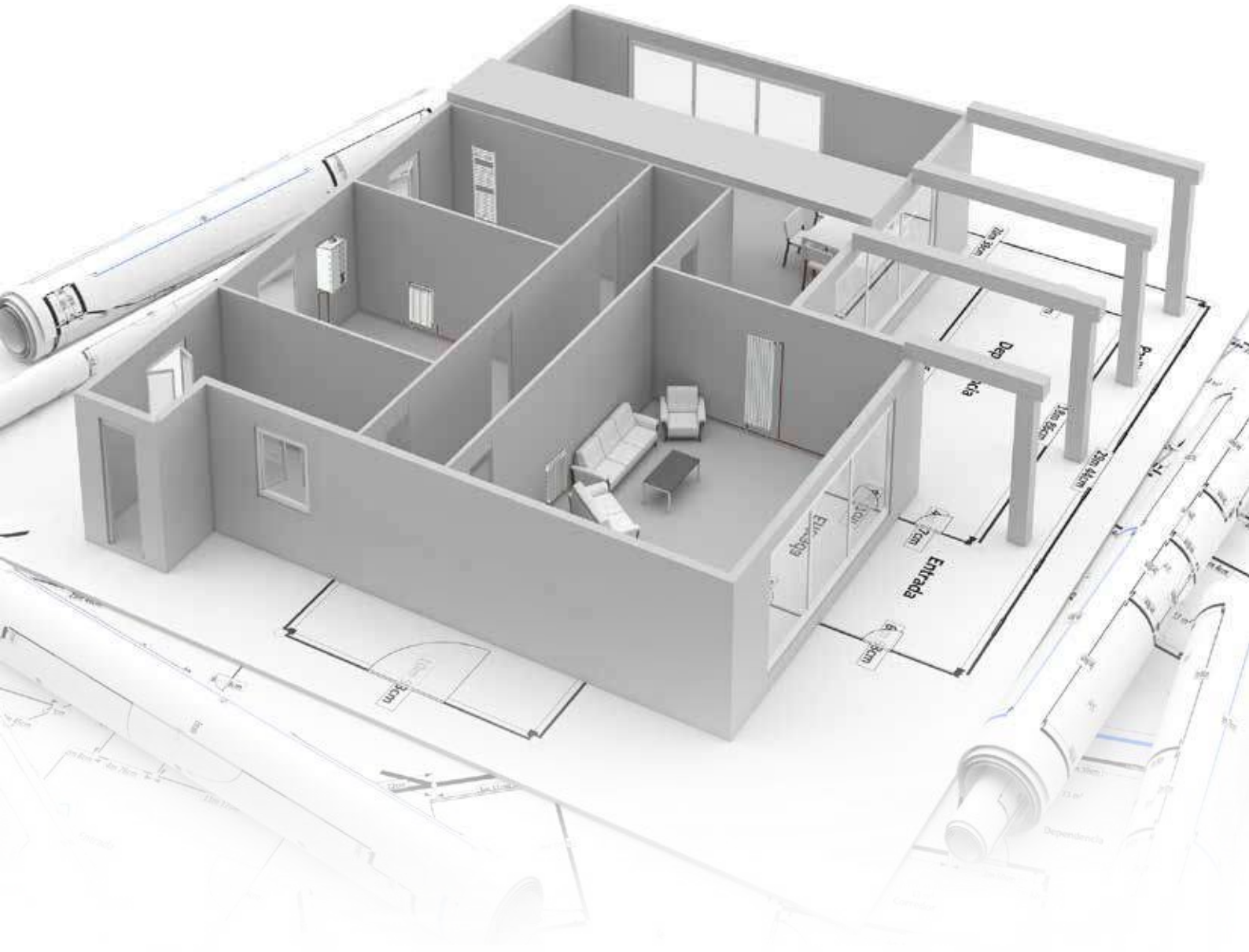
SPOT EASY smart thermostat

All installation or maintenance operations must be carried out by qualified personnel.

The manufacturer cannot be held responsible for any damage to people, animals and/or things, caused by improper use of the product or by failure to comply with these indications.

FONDITAL AND BIM:
INNOVATION IN PROJECT DESIGN

Fondital products full range has been added to BIMobject, the world's largest platform of BIM content.
Therefore, you can download the product files and insert them into the desired project by directly accessing all the specific and detailed information for each prototype.



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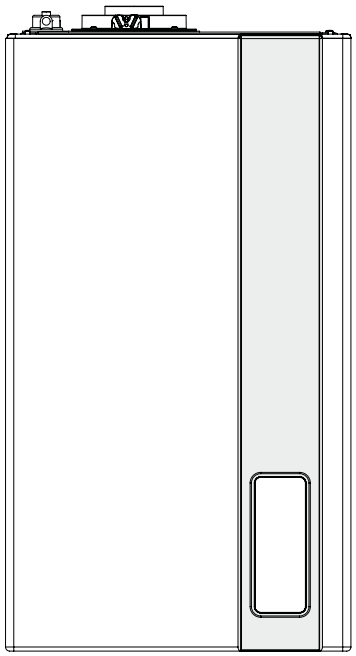
Download the Fondital products from www.bimobject.com/en/fondital

BOILERS

CODE OF THE PRODUCT

KC KRB KB KR KBS KRBS CTN

EXAMPLE



ITACA KC

WALL-HUNG CONDENSING BOILER WITH INSTANT PRODUCTION OF DHW

K = CONDENSING

C = COMBI BOILER WITH INSTANT DHW PRODUCTION

KEY

K CONDENSING

C COMBI BOILER WITH INSTANT DHW PRODUCTION

B INTEGRATED HOT WATER STORAGE TANK

R CH ONLY

AF BI-THERMAL HEAT EXCHANGER

RB CH ONLY PLUS 3-WAY VALVE FOR HOT WATER STORAGE TANK

S WITH HYDRAULIC UNIT AND ELECTRONICS FOR MANAGING A SOLAR THERMAL PLANT

TN NATURAL DRAUGHT

TFS FORCED DRAUGHT

IN BUILT-IN INSTALLATION

MODEL	CONDENSING	STANDARD	BOILER BODY	CENTRAL HEATING	INSTANTANEOUS DHW PRODUCTION	INTEGRATED STORAGE TANK	REMOTE STORAGE TANK	SOLAR EASY	WALL-HUNG	FLOOR-STANDING	CASCADE-TYPE INSTALLATION	< 35 KW	> 35 KW
ITACA KC	●				●			●	●			●	
ITACA KR	●			●			●	●	●			●	
ITACA KRB	●			●			●	●	●			●	
ITACA KB	●					●		●	●			●	
ANTEA NEXT KC	●				●			●	●			●	
ANTEA NEXT KR	●			●			●	●	●			●	
ANTEA NEXT KRB	●			●			●	●	●			●	
ANTEA KC	●				●			●	●			●	
ANTEA KR	●			●			●	●	●			●	
ANTEA KRB	●			●			●	●	●			●	
TENERIFE KC	●				●				●			●	
ITACA CH KR	●			●					●		●		●
ITACA CH KR MODULE FOR INDOOR INSTALLATION	●			●			●		●		●		●
ITACA CH KR CABINET MODULE	●			●							●		●
ITACA CH KR MODULE BACK ON BACK	●			●			●	●	●		●		●
GIAVA KRB	●					●				●		●	
FORMENTERA CTFS		●			●			●	●			●	
FORMENTERA RBTFS		●		●			●	●	●			●	
FORMENTERA RTFS		●		●			●	●	●			●	
ANTEA CTFS		●			●				●			●	
ANTEA CTN		●			●				●			●	
ANTEA RBTFS		●		●			●	●	●			●	
ANTEA RBTN		●		●			●		●			●	
ANTEA RTFS		●		●			●	●	●			●	
ANTEA RTN		●			●				●			●	
ANTEA CTFS 40		●			●			●	●				●
ANTEA RBTFS 40		●		●			●		●				●
ANTEA RTFS 40		●		●			●		●				●
MAIORCA CTFS		●			●			●	●			●	
MINORCA CTFS (CU)		●			●				●			●	
MINORCA CTN (CU)		●			●				●			●	
BALI RTN E		●		●			●			●		●	●

SYMBOLS



CONDENSING
Condensing boiler



STANDARD
Standard boiler



OUTDOOR INSTALLATION
Boiler that can be installed outdoors, in a partially protected place



INDOOR INSTALLATION
Indoor wall-hung boiler



BUILT-IN INSTALLATION
Boiler to be installed in a suitable flush-mounting unit



FLOOR-STANDING INSTALLATION
Indoor floor-standing boiler



CASCADE-TYPE INSTALLATION
Boiler that can be installed in cascade-type connection



PLATE EXCHANGER
Plate DHW exchanger



26-PLATE HEAT EXCHANGER
26-plate DHW heat exchanger



ALUMINIUM PRIMARY EXCHANGER
Aluminium primary exchanger



STAINLESS STEEL PRIMARY EXCHANGER
Stainless steel heat exchanger



Primary copper heat exchanger
Primary copper heat exchanger



OUTDOOR DHW hot water storage tank
Boiler preset for connection to a remote hot water storage tank



INTEGRATED DHW hot water storage tank
Boiler with hot water storage tank



MODULATION RATIO 1:9
Modulation range of heat output in CH and DHW modes



MODULATION RATIO 1:10
Modulation range of heat output in CH up to 1:10

SOLAR EASY
Boiler that can be combined with natural or forced circulation solar systems

EASY TO CONTROL
Multilingual menu with detailed access to parameters

FREEZE PROTECTION
Boiler self-protection system

REDUCED SIZE
Reduced overall dimensions

ELECTRONIC IGNITION
Boiler equipped with electronic flame ignition board

LOW NOx
Low NOx emission boiler - class 6

ENERGETIC SAVING
Product with high energy efficiency

TOP COMFORT DHW***
High-performance boiler for DHW

FRONT DOOR FOR ACCESS
Front access for easy maintenance

COMFORT FUNCTION
Control for activating DHW comfort function

MODULATING PUMP
High efficiency modulating pump to optimize energy consumption and performance

MADE IN ITALY
Manufactured in Italy

CONDENSING BOILERS

WALL-HUNG BOILERS <35KW

ITACA KC ..... page 92
ITACA KR ..... page 94
ITACA KRB ..... page 96
ITACA KB ..... page 98
ANTEA NEXT KC ..... page 100
ANTEA NEXT KR ..... page 102
ANTEA NEXT KRB ..... page 104
ANTEA KC ..... page 106
ANTEA KR ..... page 108
ANTEA KRB ..... page 110
TENERIFE KC ..... page 112

FLOOR-STANDING BOILERS <35KW

GIAVA KRB ..... page 114

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical specifications of condensing boilers ..... page 116

ITACA KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW
CAN BE MATCHED TO OUTDOOR INSTALLATION KIT



Available in the following models:

24 28 32

- **Ambient temperature probe supplied as standard**
- **Modulation ratio: 1:9**
- **Condensation also in DHW operation thanks to the thermally insulated 26-plate DHW heat exchanger**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Double filling system: automatic and manual**
- **High domestic hot water production, more power during DHW operation (18 - 28 - 30 - 35 kW)**
- **High-efficiency modulating circulation pump with built-in air purging device**
- Controls to manage two different types of solar thermal systems fitted as standard
- Thermosetting polymer-covered stainless steel heat exchanger
- Heating expansion vessel - 10 litres
- Thermoregulation with external probe (optional)
- Sanitary comfort function: ★★★
- Automatic by-pass



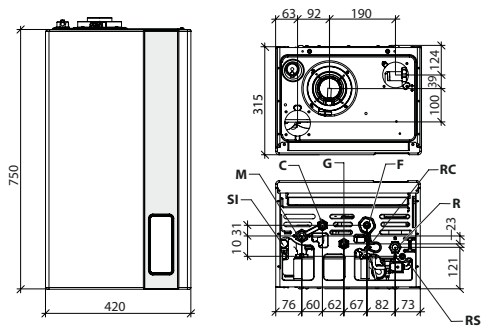
TOUCH SCREEN INTERFACE

- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *DHW "comfort" function enabling: ★★★*

The TOUCH SCREEN interface of ITACA KC combined with the ambient temperature probe supplied is a class V temperature control system.

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 24	NATURAL GAS	KITXX2KC24	23,7	27,3	420x750x315	38,0
	PROPANE	KITXX6KC24				
KC 28	NATURAL GAS	KITXX2KC28	26,4	30,4	420x750x315	39,0
	PROPANE	KITXX6KC28				
KC 32	NATURAL GAS	KITXX2KC32	30,4	34,5	420x750x315	40,5
	PROPANE	KITXX6KC32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

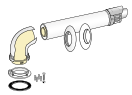




SI	Condensate drain	**F**	Cold water inlet (1/2")
M	CH system flow (3/4")	**RC**	Filler tap
C	DHW outlet (1\2")	**R**	CH system return (3/4")
G	Gas inlet (1/2")	**RS**	Discharge tap

Technical data	um	KC 24	KC 28	KC 32
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	13,4	15,5	16,2
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D

(**) with comfort function disabled.
For other technical specifications, see from page 116

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Kit for connection to solar plant	0KITSOLC07
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Magnetic dirt separator filter	0AFILDEF00

For other accessories, see from page 201

ITACA KR

WALL-HUNG CONDENSING BOILER CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Standard management of one type of solar thermal system**
- **External hot water storage tank heating setting (optional)**
- **High-efficiency modulating circulation pump with built-in air purging device**
- Thermosetting polymer-covered stainless steel heat exchanger
- Heating expansion vessel - 10 litres
- Thermoregulation with external probe (optional)
- Automatic by-pass

Available in the following models:

24 28 32



TOUCH SCREEN INTERFACE

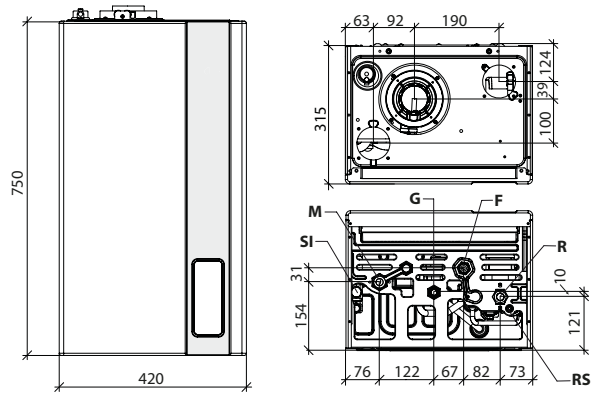
- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

The TOUCH SCREEN interface of ITACA KR combined with the ambient temperature probe supplied is a class V temperature control system.

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 24	NATURAL GAS	KITXX2KR24	23,7	27,3 (*)	420x750x315	35,5
	PROPANE	KITXX6KR24				
KR 28	NATURAL GAS	KITXX2KR28	26,4	30,4 (*)	420x750x315	37,0
	PROPANE	KITXX6KR28				
KR 32	NATURAL GAS	KITXX2KR32	30,4	34,5 (*)	420x750x315	38,5
	PROPANE	KITXX6KR32				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

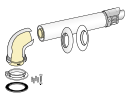
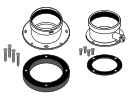


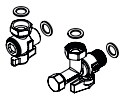


SI	Condensate drain	**F**	Cold water inlet (1/2")
M	CH system flow (3/4")	**R**	CH system return (3/4")
G	Gas inlet (1/2")	**RS**	Discharge tap

Technical data	um	KR 24	KR 28	KR 32
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3 (*)	30,4 (*)	34,5 (*)
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D

(*) with optional hot water storage tank.
For other technical specifications, see from page 117

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	hot water storage tank temperature probe 3m	0KITSOND00
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Magnetic dirt separator filter	0AFILDEF00
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00

For other accessories, see from page 201

Accessories supplied as standard

Item	Description
	Ambient temperature probe

ITACA KRB

WALL-HUNG CONDENSING BOILER, CH ONLY, WITH INTEGRATED 3-WAY VALVE CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



Available in the following models:

24 28 32

- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Standard management of one type of solar thermal system**
- **Integrated 3-way deviating valve**
- **High-efficiency modulating circulation pump with built-in air purging device**
- Thermosetting polymer-covered stainless steel heat exchanger
- Thermoregulation with external probe (optional)
- Heating expansion vessel - 10 litres
- Anti-legionella function for hot water storage tank
- Automatic by-pass
- External hot water storage tank heating setting (optional)



TOUCH SCREEN INTERFACE

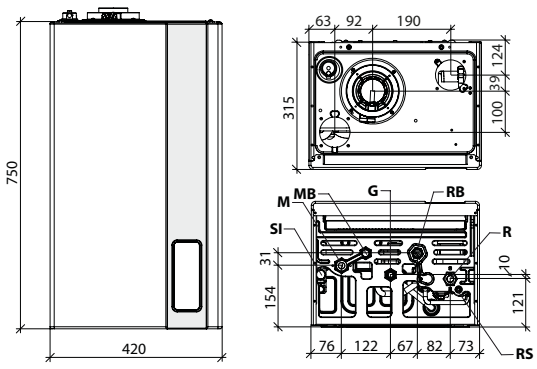
- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

The TOUCH SCREEN interface of ITACA KRB combined with the ambient temperature probe supplied is a class V temperature control system.

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 24	NATURAL GAS	KITXX2KU24	23,7	27,3 (*)	420x750x315	37,0
	PROPANE	KITXX6KU24				
KRB 28	NATURAL GAS	KITXX2KU28	26,4	30,4 (*)	420x750x315	38,5
	PROPANE	KITXX6KU28				
KRB 32	NATURAL GAS	KITXX2KU32	30,4	34,5 (*)	420x750x315	40,0
	PROPANE	KITXX6KU32				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

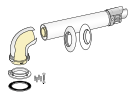




SI	Condensate drain		
M	CH system flow (3/4")	**RB**	Return from hot water storage tank (1/2")
MB	Flow for hot water storage tank (1/2")	**R**	CH system return (3/4")
G	Gas inlet (1/2")	**RS**	Discharge tap

Technical data	um	KRB 24	KRB 28	KRB 32
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3 (*)	30,4 (*)	34,5 (*)
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D

(*) with optional hot water storage tank.
For other technical specifications, see from page 118

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00

For other accessories, see from page 201

ITACA KB

WALL-HUNG CONDENSING BOILER WITH AN INTEGRATED WATER TANK FOR THE PRODUCTION OF DHW



- **Modulation ratio: 1:9**
- **Thermally-insulated 45-litre stainless steel hot water storage tank**
- **hot water storage tank heating setting**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Heating expansion vessel - 10 litres**
- Thermosetting polymer-covered stainless steel heat exchanger
- Thermoregulation with external probe (optional)
- Anti-legionella function for hot water storage tank
- Prearranged for connection to a recirculation system
- 3-speed circulation pump with built-in air purging device
- Automatic by-pass

Available in the following models:

24 32



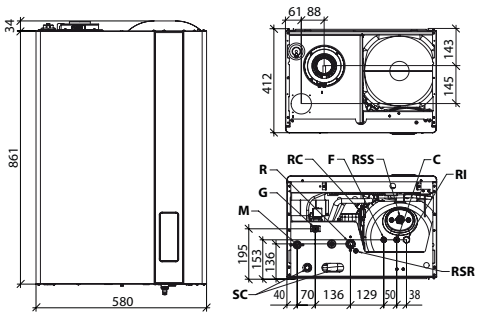
TOUCH SCREEN INTERFACE

- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

The TOUCH SCREEN interface ITACA KB combined with the ambient temperature probe supplied is a class V adjustment system.

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KB 24	NATURAL GAS	KITXX2KB24	23,7	27,3	580x861x412	74,0
	PROPANE	KITXX6KB24				
KB 32	NATURAL GAS	KITXX2KB32	30,4	34,5	580x861x412	79,0
	PROPANE	KITXX6KB32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

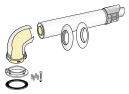


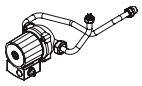
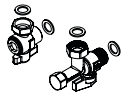


M	CH system flow (3/4")	**RSS**	DHW drain cock
G	Gas inlet (1/2")	**C**	DHW outlet (1\2")
R	CH system return (3/4")	**RI**	Recirculation inlet (1/2")
RC	Filler tap	**RSR**	CH discharge tap
F	Cold water inlet (1/2")	**SC**	Condensate drain and safety valves

Technical data	um	KB 24	KB 32
Nominal heat input (Qn)	kW	23,7	30,4
Nominal heat output (80-60°C) (Pn)	kW	23,0	29,4
Heat output (50-30°C)	kW	25,0	32,3
Reduced heat input (Qr)	kW	3,0	4,2
Useful efficiency at nominal input (80-60°C)	%	96,8	96,2
Useful efficiency at nominal input (50-30°C)	%	105,6	106,2
Useful efficiency at 30% (30°C return)	%	107,4	108,3
Heating expansion vessel capacity	l	10	10
DHW nominal heat input	kW	27,3	34,5
Specific DHW flow ΔT=30K	l/min	16,2	19,5
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

For other technical specifications, see from page 119

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Recirculation kit	0KRICIRC02
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Magnetic dirt separator filter	0AFILDEF00

For other accessories, see from page 201

ANTEA NEXT KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW



- **CeramiXSteel combustion unit:**
- **HIGH DURABILITY EXCHANGER: thanks to the all-stainless steel single coil and large passage section, it avoids clogging and guarantees high performance over time**
- **CERAMIC QUALITY: high-performance ceramic burner allowing a wider modulation range**
- **ADVANCED ELECTRONICS: intuitive and functional with large colour display**
- **EASY INSTALLATION: simple and practical fixing and maintenance**
- **ALTERNATIVE SOURCES CONFIGURATION: through an intelligent algorithm it acts as a control unit for alternative energy sources**
- **SMART CONNECTION: can be connected to BMS (integrated Modbus) and IOT building automation systems**
- **Compatible with methane-hydrogen mixtures up to 20%**
- COMBINED COMFORT: thanks to the room temperature probe, the functioning is adapted to the room temperature without the use of a thermostat
- CUSTOMIZABLE OPERATING: weekly programmable
- SOLAR PRO FUNCTION: enables the management of a solar thermal system
- HIGH ELECTRICAL INSULATION: thanks to the IPX5D electrical insulation rating it can be installed outdoors in partially protected locations
- HIGH EFFICIENCY: thanks to the 1:9 modulation ratio, high performance is guaranteed



USER INTERFACE

- *Day/night temperature level selection*
- *Timer and ambient temperature setting*

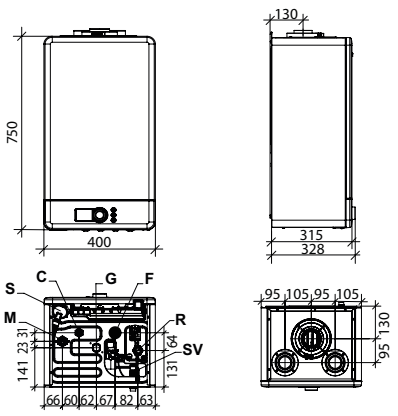
Available in the following models:

18 26 30 35

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 18	NATURAL GAS	KAGXX2KC12	12,0	18,0	400x750x315	30,5
	PROPANE	KAGXX6KC18				
KC 26	NATURAL GAS	KAGXX2KC26	23,7	27,3	400x750x315	30,5
	PROPANE	KAGXX6KC26				
KC 30	NATURAL GAS	KAGXX2KC30	26,7	30,4	400x750x315	32,5
	PROPANE	KAGXX6KC30				
KC 35	NATURAL GAS	KAGXX2KC35	30,4	34,5	400x750x315	33,0
	PROPANE	KAGXX6KC35				

Included in the price: Paper installation template, aspiration closing plugs and wall-mount bracket.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

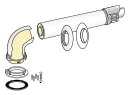


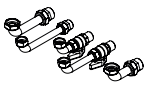
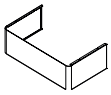
S	Trap inspection cap	**G**	Gas inlet (3\4")
M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")
SV	3-bar safety valve drain		



Technical data	um	KC 18	KC 26	KC 30	KC 35
Rated output (Pn)	kW	12	23	26	30
Seasonal energy efficiency of ambient heating (ηs)	%	92	92	92	91
Water heating energy efficiency (ηwh)	%	80	84	84	85
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	9,0	13,4	15,0	17,3
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 120

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	Magnetic dirt separator filter	0AFILDEF00
	Ambient temperature probe	0KITSAMB00

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Basic solar kit	0KITSOLC09
	Basic hydraulic kit Next boilers ANTEA NEXT KC - KR - KRB	0KITIDBA30
	Covering pipes and boiler taps ANTEA NEXT KC - KR - KRB (*)	0COPETUB08
	NTC probe kit for 10k beta 3977 circuit breaker (*)	0KITSOND01
	PT 1000 probe kit with ring connection (*)	0KITSOPT00

For other accessories, see from page 201
(*) Items normally not in stock, minimum stock availability time 8 weeks.

ANTEA NEXT KR

WALL-HUNG CONDENSING BOILER CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



- **CeramiXSteel combustion unit:**
- **HIGH DURABILITY EXCHANGER: thanks to the all-stainless steel single coil and large passage section, it avoids clogging and guarantees high performance over time**
- **CERAMIC QUALITY: high-performance ceramic burner allowing a wider modulation range**
- **ADVANCED ELECTRONICS: intuitive and functional with large colour display**
- **EASY INSTALLATION: simple and practical fixing and maintenance**
- **ALTERNATIVE SOURCES CONFIGURATION: through an intelligent algorithm it acts as a control unit for alternative energy sources**
- **SMART CONNECTION: can be connected to BMS (integrated Modbus) and IOT building automation systems**
- **Compatible with methane-hydrogen mixtures up to 20%**
- COMBINED COMFORT: thanks to the room temperature probe, the functioning is adapted to the room temperature without the use of a thermostat
- SOLAR PRO FUNCTION: enables the management of a solar thermal system
- HIGH ELECTRICAL INSULATION: thanks to the IPX5D electrical insulation rating it can be installed outdoors in partially protected locations
- HIGH EFFICIENCY: thanks to the 1:9 modulation ratio, high performance is guaranteed
- CUSTOMIZABLE OPERATING: weekly programmable



USER INTERFACE

- *Day/night temperature level selection*
- *Timer and ambient temperature setting*

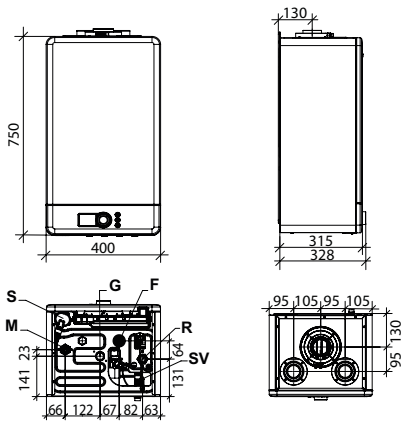
Available in the following models:

12 24 28 32

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 12	NATURAL GAS	KAGXX2KR12	12,0	18,0 (*)	400x750x315	29,5
	PROPANE	KAGXX6KR12				
KR 24	NATURAL GAS	KAGXX2KR24	23,7	27,3 (*)	400x750x315	29,5
	PROPANE	KAGXX6KR24				
KR 28	NATURAL GAS	KAGXX2KR28	26,7	30,4 (*)	400x750x315	31,5
	PROPANE	KAGXX6KR28				
KR 32	NATURAL GAS	KAGXX2KR32	30,4	34,5 (*)	400x750x315	32,0
	PROPANE	KAGXX6KR32				

(*) with optional hot water storage tank.
Included in the price: Paper installation template, aspiration closing plugs and wall-mount bracket.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

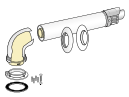


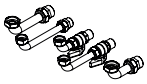
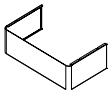


S	Trap inspection cap	**G**	Gas inlet (3\4")
M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
SV	3-bar safety valve drain	**R**	CH system return (3/4")

Technical data	um	KR 12	KR 24	KR 28	KR 32
Rated output (Pn)	kW	12	23	26	30
Seasonal energy efficiency of ambient heating (ηs)	%	92	92	92	91
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)	34,5 (*)
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 121
(*) with optional hot water storage tank.

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	Magnetic dirt separator filter	0AFILDEF00
	Ambient temperature probe	0KITSAMB00

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Basic hydraulic kit Next boilers ANTEA NEXT KC - KR - KRB	0KITIDBA30
	Covering pipes and boiler taps ANTEA NEXT KC - KR - KRB (*)	0COPETUB08
	PT 1000 probe kit with ring connection (*)	0KITSOPT00
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00

For other accessories, see from page 201

(*) Items normally not in stock, minimum stock availability time 8 weeks.

ANTEA NEXT KRB

WALL-HUNG CONDENSING BOILER, CH ONLY, WITH INTEGRATED 3-WAY VALVE
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



- **CeramiXSteel combustion unit:**
- **HIGH DURABILITY EXCHANGER: thanks to the all-stainless steel single coil and large passage section, it avoids clogging and guarantees high performance over time**
- **CERAMIC QUALITY: high-performance ceramic burner allowing a wider modulation range**
- **ADVANCED ELECTRONICS: intuitive and functional with large colour display**
- **EASY INSTALLATION: simple and practical fixing and maintenance**
- **ALTERNATIVE SOURCES CONFIGURATION: through an intelligent algorithm it acts as a control unit for alternative energy sources**
- **SMART CONNECTION: can be connected to BMS (integrated Modbus) and IOT building automation systems**
- **Compatible with methane-hydrogen mixtures up to 20%**
- COMBINED COMFORT: thanks to the room temperature probe, the functioning is adapted to the room temperature without the use of a thermostat
- SOLAR PRO FUNCTION: enables the management of a solar thermal system
- HIGH ELECTRICAL INSULATION: thanks to the IPX5D electrical insulation rating it can be installed outdoors in partially protected locations
- HIGH EFFICIENCY: thanks to the 1:9 modulation ratio, high performance is guaranteed
- CUSTOMIZABLE OPERATING: weekly programmable



USER INTERFACE

- *Day/night temperature level selection*
- *Timer and ambient temperature setting*

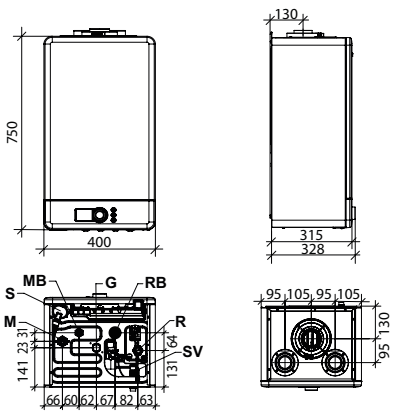
Available in the following models:

12 24 28 32

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 12	NATURAL GAS	KAGXX2KU12	12,0	18,0 (*)	400x750x315	29,5
	PROPANE	KAGXX6KU12				
KRB 24	NATURAL GAS	KAGXX2KU24	23,7	27,3 (*)	400x750x315	29,5
	PROPANE	KAGXX6KU24				
KRB 28	NATURAL GAS	KAGXX2KU28	26,7	30,4 (*)	400x750x315	31,5
	PROPANE	KAGXX6KU28				
KRB 32	NATURAL GAS	KAGXX2KU32	30,4	34,5 (*)	400x750x315	32,0
	PROPANE	KAGXX6KU32				

(*) with optional hot water storage tank.
Included in the price: Paper installation template, aspiration closing plugs and wall-mount bracket.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

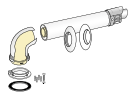


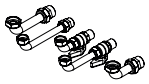
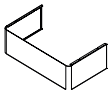
S	Trap inspection cap	**G**	Gas inlet (3\4")
M	CH system flow (3/4")	**RB**	Secondary return from hot water storage tank (1/2")
MB	Secondary flow to storage tank (1\2")		
SV	3-bar safety valve drain	**R**	CH system return (3/4")



Technical data	um	KRB 12	KRB 24	KRB 28	KRB 32
Rated output (Pn)	kW	12	23	26	30
Seasonal energy efficiency of ambient heating (ηs)	%	92	92	92	91
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)	34,5 (*)
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 122
(*) with optional hot water storage tank.

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08
	Magnetic dirt separator filter	0AFILDEF00
	Ambient temperature probe	0KITSAMB00
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Basic hydraulic kit Next boilers ANTEA NEXT KC - KR - KRB	0KITIDBA30
	Covering pipes and boiler taps ANTEA NEXT KC - KR - KRB (*)	0COPETUB08
	NTC probe kit for 10k beta 3977 circuit breaker (*)	0KITSOND01
	PT 1000 probe kit with ring connection (*)	0KITSOPT00

For other accessories, see from page 201
(*) Items normally not in stock, minimum stock availability time 8 weeks.

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

ANTEA KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW



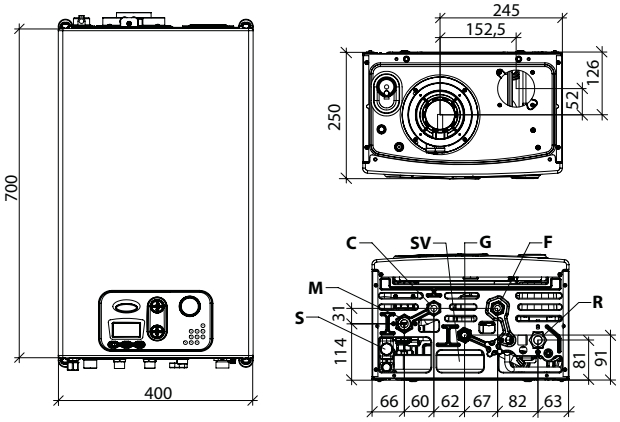
- **High domestic hot water production, more power during DHW operation (18 - 28 - 30 kW)**
- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Heating expansion vessel - 9 litres**
- **Compact dimension, only 250 mm deep**
- Management of 2 different kinds of solar thermal system (with additional kit)
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

Available in the following models:

24 28

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 24	NATURAL GAS	CAOXX2KC24	23,7	27,3	400x700x250	32,0
	PROPANE	CAOXX6KC24				
KC 28	NATURAL GAS	CAOXX2KC28	26,4	30,4	400x700x250	33,5
	PROPANE	CAOXX6KC28				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

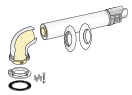


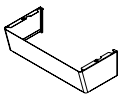


S	Trap inspection cap		
M	CH system flow (3/4")	**G**	Gas inlet (1/2")
C	DHW outlet (1\2")	**F**	Cold water inlet (1/2")
SV	3-bar safety valve drain	**R**	CH system return (3/4")

Technical data	um	KC 24	KC 28
Nominal heat input (Qn)	kW	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat input (Qr)	kW	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3	30,4
Specific DHW flow ΔT=30K	l/min	13,4	15,0
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

For other technical specifications, see from page 123

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial fitting kit Ø60/100	0KITATCO00

Item	Description	Code
	Electric kit for complex solar plant management	0KITSOLC08
	Magnetic dirt separator filter	0AFILDEF00
	Kit for connection to solar plant	0KITSOLC07
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00

For other accessories, see from page 201

ANTEA KR

WALL-HUNG CONDENSING BOILER CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Modulation ratio: 1:9**
- **Heating expansion vessel - 9 litres**
- **Compact dimension, only 250 mm deep**
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

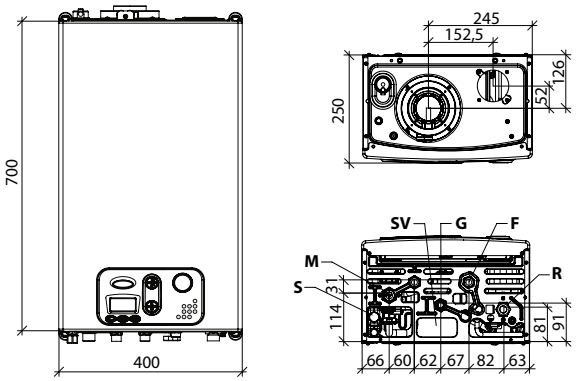
Available in the following models:

24 28

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 24	NATURAL GAS	CAOXX2KR24	23,7	27,3 (*)	400x700x250	32,0
	PROPANE	CAOXX6KR24				
KR 28	NATURAL GAS	CAOXX2KR28	26,4	30,4 (*)	400x700x250	31,0
	PROPANE	CAOXX6KR28				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

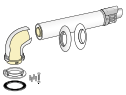
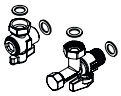


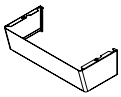


S	Trap inspection cap	**G**	Gas inlet (1/2")
M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
SV	3-bar safety valve drain	**R**	CH system return (3/4")

Technical data	um	KR 24	KR 28
Nominal heat input (Qn)	kW	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat input (Qr)	kW	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3 (*)	30,4 (*)
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

(*) with optional hot water storage tank.
For other technical specifications, see from page 124

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Coaxial fitting kit Ø60/100	0KITATCO00
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00
	hot water storage tank temperature probe 3m	0KITSOND00
	Magnetic dirt separator filter	0AFILDEF00
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Starting flange kit for condensing boilers	0KITFLAN00

For other accessories, see from page 201

ANTEA KRB

WALL-HUNG CONDENSING BOILER, CH ONLY, WITH INTEGRATED 3-WAY VALVE CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Modulation ratio: 1:9**
- **Heating expansion vessel - 9 litres**
- **Integrated 3-way deviating valve**
- **Compact dimension, only 250 mm deep**
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

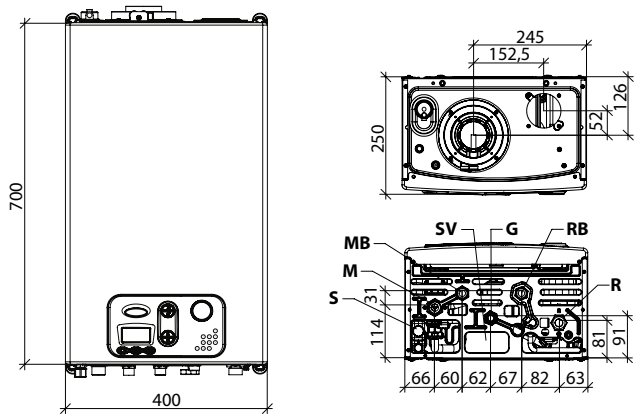
Available in the following models:

24 28

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 24	NATURAL GAS	CAOXX2KU24	23,7	27,3 (*)	400x700x250	31,0
	PROPANE	CAOXX6KU24				
KRB 28	NATURAL GAS	CAOXX2KU28	26,4	30,4 (*)	400x700x250	32,5
	PROPANE	CAOXX6KU28				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

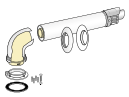


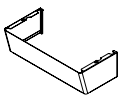


S	Trap inspection cap		
M	CH system flow (3/4")	**G**	Gas inlet (1/2")
MB	Secondary flow to hot water storage tank (1/2")	**RB**	Secondary return from hot water storage tank (1/2")
SV	3-bar safety valve drain	**R**	CH system return (3/4")

Technical data	um	KRB 24	KRB 28
Nominal heat input (Qn)	kW	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat input (Qr)	kW	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3 (*)	30,4 (*)
NOx emission class	-	6	6
Electric protection rating	IP	IPX4D	IPX4D

(*) with optional hot water storage tank.
For other technical specifications, see from page 125

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Splitter kit Ø80+80	0KITSDOP08
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial fitting kit Ø60/100	0KITATCO00

Item	Description	Code
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00
	Magnetic dirt separator filter	0AFILDEF00
	Electric kit for complex solar plant management	0KITSOLC08
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00

For other accessories, see from page 201

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

TENERIFE KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW



- **High efficiency stainless steel heat exchanger with single coil and wide passage section**
- **Heating expansion vessel - 9 litres**
- **Compact dimension, only 250 mm deep**
- **Easy to install in pre-existing plants thanks to: central flue vent, wall fixing bracket and double hole for split suction**
- **Thermoregulation with external probe (optional)**
- **Backlit LCD user interface with diagnostics**
- Modulation ratio: 1:5
- Fully pre-mixed burner
- Programmable parameters to adapt the boiler to the installation and alerts history
- Stainless steel plate DHW heat exchanger
- Automatic by-pass

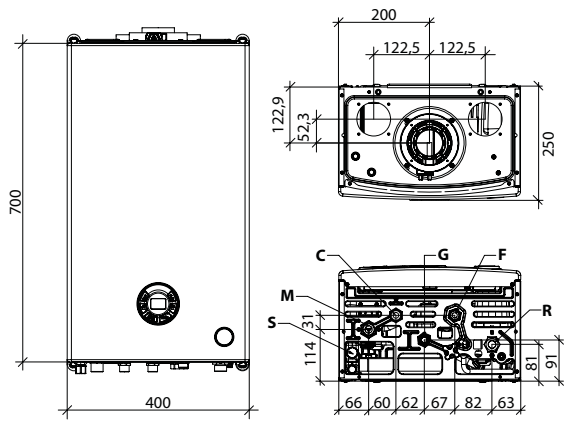
Available in the following models:

24

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 24	NATURAL GAS	CTFXX2KC24	20,0	24,0	400x700x250	29,0
	PROPANE	CTFXX6KC24				

Included in the price: Paper installation template, aspiration closing plugs and wall-mount bracket.

DIMENSIONS AND CONNECTION CENTRE DISTANCES

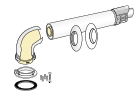


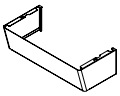


S	Condensate drain	**G**	Gas inlet (1/2")
M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")

Technical data	um	KC 24
Nominal heat input (Qn)	kW	20,0
Nominal heat output (80-60°C) (Pn)	kW	19,4
Heat output (50-30°C)	kW	21,2
Reduced heat input (Qr)	kW	5,0
Useful efficiency at nominal input (80-60°C)	%	97,1
Useful efficiency at nominal input (50-30°C)	%	106,1
Useful efficiency at 30% (30°C return)	%	108,1
Heating expansion vessel capacity	l	9
DHW nominal heat input	kW	24,0
Specific DHW flow ΔT=30K	l/min	12,0
NOx emission class	-	6
Electric protection rating	IP	IPX4D

For other technical specifications, see from page 126

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Ambient temperature probe	0KITSAMB00
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP08

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Magnetic dirt separator filter	0AFILDEF00
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00

For other accessories, see from page 201

GIAVA KRB

FLOOR-STANDING CONDENSING BOILER WITH AN INTEGRATED SINGLE COIL WATER TANK FOR THE PRODUCTION OF DHW



- **130-litre water heater with single coil**
- **Available in the KRB version with one direct zone, in the KRB-V version with one direct and one mixed integrated zones, and in the KRB-Z version with one direct and two mixed integrated zones**
- **Modulation ratio: 1:9**
- **Hydraulic connections on the sides**
- **Front door for immediate access to boiler**
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- 5-litre DHW expansion vessel

Available in the following models:

24 28 32

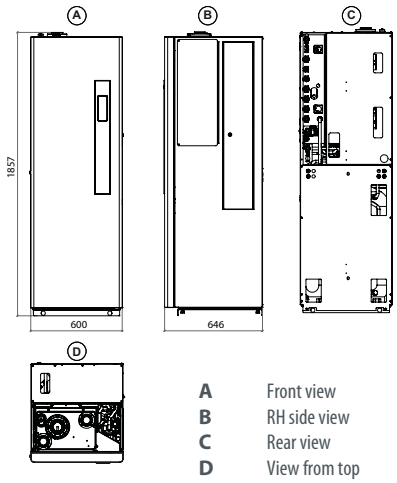


TOUCH SCREEN INTERFACE

- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 24	NATURAL GAS	CGBXX2KU24	23,7	27,3	600x1857x643	190,0
	PROPANE	CGBXX6KU24				
KRB 28	NATURAL GAS	CGBXX2KU28	26,4	30,4	600x1857x644	192,0
	PROPANE	CGBXX6KU28				
KRB 32	NATURAL GAS	CGBXX2KU32	30,4	34,5	600x1857x645	193,0
	PROPANE	CGBXX6KU32				
KRB V 24	NATURAL GAS	CGBXX2KV24	23,7	27,3	600x1857x643	203,00
	PROPANE	CGBXX6KV24				
KRB V 28	NATURAL GAS	CGBXX2KV28	26,4	30,4	600x1857x644	204,00
	PROPANE	CGBXX6KV28				
KRB V 32	NATURAL GAS	CGBXX2KV32	30,4	34,5	600x1857x645	205,00
	PROPANE	CGBXX6KV32				
KRB Z 24	NATURAL GAS	CGBXX2KZ24	23,7	27,3	600x1857x643	205,00
	PROPANE	CGBXX6KZ24				
KRB Z 28	NATURAL GAS	CGBXX2KZ28	26,4	30,4	600x1857x644	207,00
	PROPANE	CGBXX6KZ28				
KRB Z 32	NATURAL GAS	CGBXX2KZ32	30,4	34,5	600x1857x645	208,00
	PROPANE	CGBXX6KZ32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

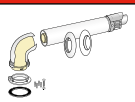


A Front view
B RH side view
C Rear view
D View from top



Technical data	um	KRB 24	KRB 28	KRB 32
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	22,9	25,4	29,4
Heat output (50-30°C)	kW	24,9	27,9	32,3
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,5	107,0	108,3
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	22	22,5	23,4
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 127

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Remote control Ready Remote	0CREMOTO08
	Splitter kit Ø80+80	0KITSDOP08
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	Giava recirculation optional kit	0KRICIRC00
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00
	Coaxial fitting kit Ø60/100	0KITATCO00

For other accessories, see from page 201

FOR THE GAS CATEGORIES OF THE PRODUCTS CONTACT FONDITAL S.P.A.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Itaca	Itaca	Itaca
Model	-	KC 24	KC 28	KC 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,6	3,0	3,9
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3	30,4	34,5
DHW minimum heat input	kW	3,0	3,3	4,2
DHW nominal heat output (ΔT 30°C)	kW	27,4	29,2	33,4
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	13,4	15,5	16,2
Qualification of domestic hot water	-	***	***	***
DHW temperature range	°C	35-57	35-57	35-57
DHW maximum working temperature	°C	62	62	62
NOx emission class	-	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,44	1,04	0,87
Casing heat loss with burner off	%	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,72	2,26	2,33
Air-flue ΔT at nominal heat input	°C	61	60	60
CO2 at nominal heat input of heating (Propane)	%	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	97	101	106
Circulation pump power input	W	50	50	50
Maximum power consumption	W	97	101	106
Circulation pump power input	W	50	50	50
Electric protection rating	IP	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Itaca	Itaca	Itaca
Model	-	KR 24	KR 28	KR 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,6	3,0	3,9
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3 (*)	30,4 (*)	34,5 (*)
DHW minimum heat input	kW	3,0 (*)	3,3 (*)	4,2 (*)
DHW temperature range	°C	35-65 (***)	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)	65 (***)
NOx emission class	-	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,44	1,04	0,87
Casing heat loss with burner off	%	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,72	2,26	2,33
Air-flue ΔT at nominal heat input	°C	61	60	60
Flue gas flow at nominal heat input	g/s	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	97	101	106
Circulation pump power input	W	50	50	50
Electric protection rating	IP	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Itaca	Itaca	Itaca
Model	-	KRB 24	KRB 28	KRB 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,6	3,0	3,9
Heat output (50-30°C)	kW	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	107,4	107,4	108,3
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	10	10	10
DHW nominal heat input	kW	27,3 (*)	30,4 (*)	34,5 (*)
DHW minimum heat input	kW	3,0 (*)	3,3 (*)	4,2 (*)
DHW temperature range	°C	35-65 (***)	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)	65 (***)
NOx emission class	-	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,44	1,04	0,87
Casing heat loss with burner off	%	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,72	2,26	2,33
Air-flue ΔT at nominal heat input	°C	61	60	60
Flue gas flow at nominal heat input	g/s	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	97	101	106
Circulation pump power input	W	50	50	50
Electric protection rating	IP	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Itaca	Itaca
Model	-	KB 24	KB 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93
Nominal heat input (Qn)	kW	23,7	30,4
Reduced heat input (Qr)	kW	3,0	4,2
Nominal heat output (80-60°C) (Pn)	kW	23,0	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,6	3,9
Heat output (50-30°C)	kW	25,0	32,3
Reduced heat output (50-30°C)	kW	3,2	4,4
Useful efficiency at nominal input (80-60°C)	%	96,8	96,2
Useful efficiency at nominal input (50-30°C)	%	105,6	106,2
Useful efficiency at 30% (30°C return)	%	107,4	108,3
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78
CH maximum working temperature	°C	83	83
Heating expansion vessel capacity	l	10	10
DHW nominal heat input	kW	27,3	34,5
DHW minimum heat input	kW	3,0	4,2
DHW nominal heat output (ΔT 30°C)	kW	26,8	33,4
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	16,2	19,5
Qualification of domestic hot water	-	* * *	* * *
DHW temperature range	°C	35-65	35-65
DHW maximum working temperature	°C	65	65
NOx emission class	-	6	6
Casing heat loss with burner on at nominal heat input	%	0,44	0,87
Casing heat loss with burner off	%	0,21	0,19
Chimney heat loss with burner on at nominal heat input	%	2,72	2,33
Air-flue ΔT at nominal heat input	°C	61	60
Flue gas flow at nominal heat input	g/s	12,43	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	116	126
Circulation pump power input	W	86	86
Electric protection rating	IP	IPX4D	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea Next	Antea Next	Antea Next	Antea Next
Model	-	KC 18	KC 26	KC 30	KC 35
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$)	kW	11,4	22,4	25,3	28,8
Minimum low heat flow rate with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1	3,8
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat output (50-30°C)	kW	2,1	3,3	3,4	4,4
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83	83
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
DHW minimum heat input	kW	2,0	3,0	3,3	4,2
Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$)	kW	17,0	25,9	28,8	32,7
Minimum heat flow rate in DHW with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
DHW nominal heat output (ΔT 30°C)	kW	17,6	26,6	29,6	33,6
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	9,0	13,4	15,0	17,3
Qualification of domestic hot water	-	*	* *	* *	* *
DHW temperature range	°C	35-57	35-57	35-57	35-57
DHW maximum working temperature	°C	62	62	62	62
NOx emission class	-	6	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,00	0,33	0,55	0,43
Casing heat loss with burner off	%	0,42	0,21	0,23	0,21
Chimney heat loss with burner on at nominal heat input	%	1,99	2,66	2,66	2,74
Air-flue ΔT at nominal heat input	°C	47,0	54	55	55
Flue gas flow at nominal heat input	g/s	8,0	12,2	13,5	15,4
CO2 at nominal heat input of heating (Natural gas)	%	9,3	9,3	9,3	9,3
CO2 at nominal heat input of heating (Propane)	%	10,2	10,6	10,6	10,6
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	96	106	111	122
Circulation pump power input	W	46	46	46	54
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea Next	Antea Next	Antea Next	Antea Next
Model	-	KR 12	KR 24	KR 28	KR 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$)	kW	11,4	22,4	25,3	28,8
Minimum low heat flow rate with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1	3,8
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat output (50-30°C)	kW	2,1	3,3	3,4	4,4
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83	83
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)	34,5 (*)
DHW minimum heat input	kW	2,0 (*)	2,0 (*)	3,3 (*)	4,2 (*)
Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$)	kW	17,0	25,9	28,8	32,7
Minimum heat flow rate in DHW with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
DHW temperature range	°C	35-65 (***)	35-65 (***)	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)	65 (***)	65 (***)
NOx emission class	-	6	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,00	0,33	0,55	0,43
Casing heat loss with burner off	%	0,42	0,21	0,23	0,21
Chimney heat loss with burner on at nominal heat input	%	1,99	2,66	2,66	2,74
Air-flue ΔT at nominal heat input	°C	47,0	54	55	55
Flue gas flow at nominal heat input	g/s	8,0	12,2	13,5	15,4
CO2 at nominal heat input of heating (Natural gas)	%	9,3	9,3	9,3	9,3
CO2 at nominal heat input of heating (Propane)	%	10,2	10,6	10,6	10,6
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	96	106	111	122
Circulation pump power input	W	46	46	46	54
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea Next	Antea Next	Antea Next	Antea Next
Model	-	KRB 12	KRB 24	KRB 28	KRB 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	12,0	23,7	26,7	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$)	kW	11,4	22,4	25,3	28,8
Minimum low heat flow rate with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
Nominal heat output (80-60°C) (Pn)	kW	11,8	23,1	26,0	29,6
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1	3,8
Heat output (50-30°C)	kW	12,9	25,0	28,1	32,2
Reduced heat output (50-30°C)	kW	2,1	3,3	3,4	4,4
Useful efficiency at nominal input (80-60°C)	%	98,0	97,3	97,3	97,3
Useful efficiency at nominal input (50-30°C)	%	107,5	105,5	105,4	105,9
Useful efficiency at 30% (30°C return)	%	108,3	108,4	108,0	107,8
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83	83
Heating expansion vessel capacity	l	9	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)	34,5 (*)
DHW minimum heat input	kW	2,0 (*)	2,0 (*)	3,3 (*)	4,2 (*)
Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$)	kW	17,0	25,9	28,8	32,7
Minimum heat flow rate in DHW with 20%H2NG mixture	kW	1,9	2,8	3,1	4,0
DHW temperature range	°C	35-65 (***)	35-65 (***)	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)	65 (***)	65 (***)
NOx emission class	-	6	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,00	0,33	0,55	0,43
Casing heat loss with burner off	%	0,42	0,21	0,23	0,21
Chimney heat loss with burner on at nominal heat input	%	1,99	2,66	2,66	2,74
Air-flue ΔT at nominal heat input	°C	47,0	54	55	55
Flue gas flow at nominal heat input	g/s	8,0	12,2	13,5	15,4
CO2 at nominal heat input of heating (Natural gas)	%	9,3	9,3	9,3	9,3
CO2 at nominal heat input of heating (Propane)	%	10,2	10,6	10,6	10,6
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	96	106	111	122
Circulation pump power input	W	46	46	46	54
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea	Antea
Model	-	KC 24	KC 28
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Stated load profile	-	XL	XL
Water heating energy efficiency (ηwh)	%	84	80
Energy efficiency class of water heating	-	A	A
Nominal heat input (Qn)	kW	23,7	26,4
Reduced heat input (Qr)	kW	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	2,8	3,1
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat output (50-30°C)	kW	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78
CH maximum working temperature	°C	83	83
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3	30,4
DHW minimum heat input	kW	3,0	3,3
DHW nominal heat output (ΔT 30°C)	kW	27,4	29,2
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	13,4	15,0
Qualification of domestic hot water	-	**	**
DHW temperature range	°C	35-57	35-57
DHW maximum working temperature	°C	62	62
NOx emission class	-	6	6
Casing heat loss with burner on at nominal heat input	%	1,28	1,11
Casing heat loss with burner off	%	0,26	0,27
Chimney heat loss with burner on at nominal heat input	%	2,45	2,19
Air-flue ΔT at nominal heat input	°C	61	60
Flue gas flow at nominal heat input	g/s	12,43	13,93
CO2 at nominal heat input of heating (Natural gas)	%	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	120	125
Circulation pump power input	W	86	86
Electric protection rating	IP	IPX4D	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea	Antea
Model	-	KR 24	KR 28
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4
Reduced heat input (Qr)	kW	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	2,8	3,1
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat output (50-30°C)	kW	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78
CH maximum working temperature	°C	83	83
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3 (*)	30,4 (*)
DHW minimum heat input	kW	3,0 (*)	3,3 (*)
DHW temperature range	°C	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)
NOx emission class	-	6	6
Casing heat loss with burner on at nominal heat input	%	1,28	1,11
Casing heat loss with burner off	%	0,26	0,27
Chimney heat loss with burner on at nominal heat input	%	2,45	2,19
Air-flue ΔT at nominal heat input	°C	61	60
Flue gas flow at nominal heat input	g/s	12,43	13,93
CO2 at nominal heat input of heating (Natural gas)	%	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	120	125
Circulation pump power input	W	86	86
Electric protection rating	IP	IPX4D	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Antea	Antea
Model	-	KRB 24	KRB 28
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4
Reduced heat input (Qr)	kW	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	2,8	3,1
Heat output (50-30°C)	kW	24,9	28,0
Reduced heat output (50-30°C)	kW	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,9
Useful efficiency at 30% (30°C return)	%	107,2	107,5
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78
CH maximum working temperature	°C	83	83
Heating expansion vessel capacity	l	9	9
DHW nominal heat input	kW	27,3 (*)	30,4 (*)
DHW minimum heat input	kW	3,0 (*)	3,3 (*)
DHW temperature range	°C	35-65 (***)	35-65 (***)
DHW maximum working temperature	°C	65 (***)	65 (***)
NOx emission class	-	6	6
Casing heat loss with burner on at nominal heat input	%	1,28	1,11
Casing heat loss with burner off	%	0,26	0,27
Chimney heat loss with burner on at nominal heat input	%	2,45	2,19
Air-flue ΔT at nominal heat input	°C	61	60
Flue gas flow at nominal heat input	g/s	12,43	13,93
CO2 at nominal heat input of heating (Natural gas)	%	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	120	125
Circulation pump power input	W	86	86
Electric protection rating	IP	IPX4D	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

(*) with optional hot water storage tank.
(***) with hot water storage tank probe connected.

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Tenerife
Model	-	KC 24
Type	-	B23-B23P-B33-C13-C13X-C33-C33X-C43-C43X-C53-C53X-C63-C63X-C83-C83X
Nominal heat input (Qn)	kW	20,0
Reduced heat input (Qr)	kW	5,0
Nominal heat output (80-60°C) (Pn)	kW	19,4
Reduced heat output (80-60°C) (Pr)	kW	4,8
Heat output (50-30°C)	kW	21,2
Reduced heat output (50-30°C)	kW	5,4
Useful efficiency at nominal input (80-60°C)	%	97,1
Useful efficiency at nominal input (50-30°C)	%	106,1
Useful efficiency at 30% (30°C return)	%	108,1
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	20-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	9
DHW nominal heat input	kW	24,0
DHW minimum heat input	kW	5,0
DHW nominal heat output (ΔT 30°C)	kW	23,3
DHW circuit working pressure (min-max)	bar	0,5-6,0
Specific DHW flow ΔT=30K	l/min	12,0
Qualification of domestic hot water	-	* *
DHW temperature range	°C	35-57
DHW maximum working temperature	°C	62
NOx emission class	-	6
Casing heat loss with burner on at nominal heat input	%	0,16
Casing heat loss with burner off	%	0,38
Chimney heat loss with burner on at nominal heat input	%	2,79
Air-flue ΔT at nominal heat input	°C	73,3
Flue gas flow at nominal heat input	g/s	11,0
CO2 at nominal heat input of heating (Natural gas)	%	9,0 ± 0,3
CO2 at nominal heat input of heating (Propane)	%	10.0 ± 0.3
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	133
Circulation pump power input	W	84
Electric protection rating	IP	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Giava	Giava	Giava
Model	-	KRB 24	KRB 28	KRB 32
Type	-	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X	B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X
Nominal heat input (Qn)	kW	23,7	26,4	30,4
Reduced heat input (Qr)	kW	3,0	3,3	4,2
Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$)	kW	22,4	25,0	28,8
Minimum low heat flow rate with 20%H2NG mixture	kW	2,8	3,1	4,0
Nominal heat output (80-60°C) (Pn)	kW	22,9	25,4	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,7	3,0	3,9
Heat output (50-30°C)	kW	24,9	27,9	32,3
Reduced heat output (50-30°C)	kW	3,22	3,58	4,4
Useful efficiency at nominal input (80-60°C)	%	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,5	107,0	108,3
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	20-78	20-78	20-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	10	10	10
DHW expansion vessel capacity	l	5	5	5
DHW nominal heat input	kW	27,3	30,4	34,5
DHW minimum heat input	kW	3,0	3,3	4,2
Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$)	kW	25,9	28,8	32,7
Minimum heat flow rate in DHW with 20%H2NG mixture	kW	2,8	3,1	4,0
DHW nominal heat output (ΔT 30°C)	kW	26,8	29,3	33,4
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	22	22,5	23,4
Qualification of domestic hot water	-	* * *	* * *	* * *
DHW temperature range	°C	35-65	35-65	35-65
DHW maximum working temperature	°C	65	65	65
NOx emission class	-	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,61	1,13	0,87
Casing heat loss with burner off	%	0,21	0,2	0,19
Chimney heat loss with burner on at nominal heat input	%	2,69	2,47	2,33
Air-flue ΔT at nominal heat input	°C	61	60	60
Flue gas flow at nominal heat input	g/s	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	115	117	126
Maximum power absorption - version V	W	292	294	302
Maximum power absorption - version Z	W	395	398	406
Circulation pump power input	W	73	73	73
Power absorption of circulation pumps in the V version	W	245	245	245
Power absorption of circulation pumps in the Z version	W	343	343	343
Electric protection rating	IP	IPX5D	IPX5D	IPX5D
Air intake/flue gas vent pipe diameter	mm	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80	80+80 60+60 100/60 125/80

STANDARD BOILERS

WALL-HUNG BOILERS

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FORMENTERA CTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT WITH INSTANT DHW PRODUCTION



- **Controls to manage two different types of solar thermal systems fitted as standard**
- **Thermoregulation with external probe (optional)**
- **Stainless steel 26-plate DHW heat exchanger**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- Mono-thermal primary heat exchanger
- Programmable parameters to adapt the boiler to the installation and alerts history
- Heating expansion vessel - 7 litres
- Automatic by-pass
- 3-speed circulation pump with built-in air purging device

Available in the following models:

24 28 32

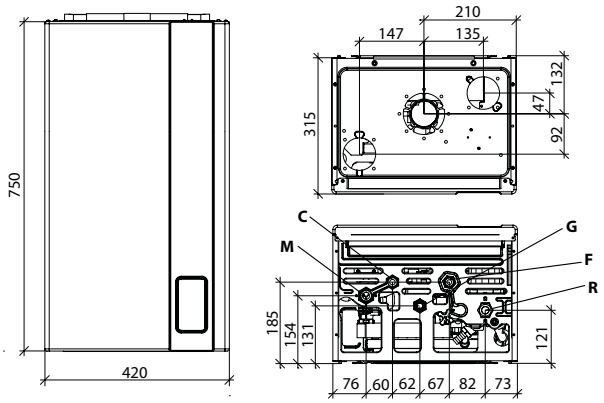


TOUCH SCREEN INTERFACE

- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 24	NATURAL GAS	CFNXX2CA24	25,5	25,5	420x750x315	37,50
	LPG	CFNXX3CA24				
CTFS 28	NATURAL GAS	CFNXX2CA28	30,5	30,5	420x750x315	38,00
	LPG	CFNXX3CA28				
CTFS 32	NATURAL GAS	CFNXX2CA32	33,0	33,0	420x750x315	38,50
	LPG	CFNXX3CA32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

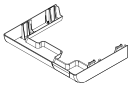
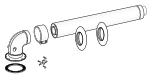


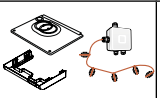


M CH system flow (3/4")
C DHW outlet (1\2")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	CTFS 24	CTFS 28	CTFS 32
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating expansion vessel capacity	l	7	7	7
DHW nominal heat input	kW	25,5	30,5	33,0
Specific DHW flow ΔT=30K	l/min	11,6	14,2	15,1
NOx emission class	-	3	3	3
Electric protection rating	IP	X5D	X5D	X5D

For other technical specifications, see from page 162

Item	Description	Code
	Pipes and taps low plastic cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	Temperature probe for solar plants	PSPTMILL00
	Coaxial flue kit	0SDOPPIA13
	Kit for connection to solar plant	0KITSOLC07
	Electric kit for complex solar plant management	0KITSOLC08
	Cover and anti-freeze protection kit	0KITCOPE03
	External protection kit for standard boilers	0KITCOPE04
	Coaxial air intake/flue gas venting connection for B22 type installations	0ATTCOVE04

For other accessories, see from page 201

FORMENTERA RBTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY, WITH INTEGRATED 3-WAY VALVE
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



- **Controls to manage two different types of solar thermal systems fitted as standard**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Integrated 3-way deviating valve**
- Mono-thermal primary heat exchanger
- Programmable parameters to adapt the boiler to the installation and alerts history
- Heating expansion vessel - 7 litres
- Automatic by-pass
- 3-speed circulation pump with built-in air purging device

Available in the following models:

24 28 32

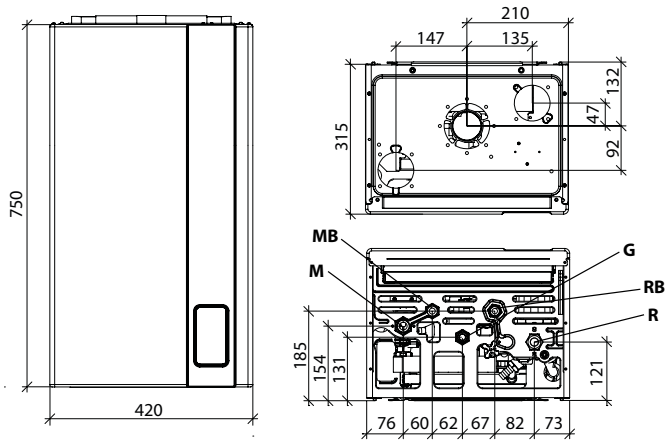


TOUCH SCREEN INTERFACE

- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 24	NATURAL GAS	CFNXX2RF24	25,5	420x750x315	35,50
	LPG	CFNXX3RF24			
RBTFS 28	NATURAL GAS	CFNXX2RF28	30,5	420x750x315	36,50
	LPG	CFNXX3RF28			
RBTFS 32	NATURAL GAS	CFNXX2RF32	33,0	420x750x315	37,00
	LPG	CFNXX3RF32			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

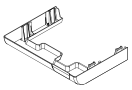
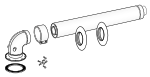


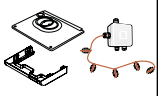


M CH system flow (3/4")
MB Secondary flow to hot water storage tank (1/2")
G Gas inlet (1/2")
RB Secondary return from hot water storage tank (1/2")
R CH system return (3/4")

Technical data	um	RBTFS 24	RBTFS 28	RBTFS 32
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating expansion vessel capacity	l	7	7	7
NOx emission class	-	3	3	3
Electric protection rating	IP	X5D	X5D	X5D

For other technical specifications, see from page 163

Item	Description	Code
	Pipes and taps low plastic cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Coaxial flue kit	0SDOPPIA13
	Flow - return cold water 90° taps kit	0KITIDBA11
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Electric kit for complex solar plant management	0KITSOLC08

Item	Description	Code
	Electric kit for complex solar plant management	0KITSOLC08
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00
	Cover and anti-freeze protection kit	0KITCOPE03
	External protection kit for standard boilers	0KITCOPE04
	Coaxial air intake/flue gas venting connection for B22 type installations	0ATTCOVE04

For other accessories, see from page 201

FORMENTERA RTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



- **Controls to manage two different types of solar thermal systems fitted as standard**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- 3-speed circulation pump with built-in air purging device
- Mono-thermal primary heat exchanger
- Programmable parameters to adapt the boiler to the installation and alerts history
- Heating expansion vessel - 7 litres
- Automatic by-pass
- Compatible with SPOT smart thermostat



TOUCH SCREEN INTERFACE

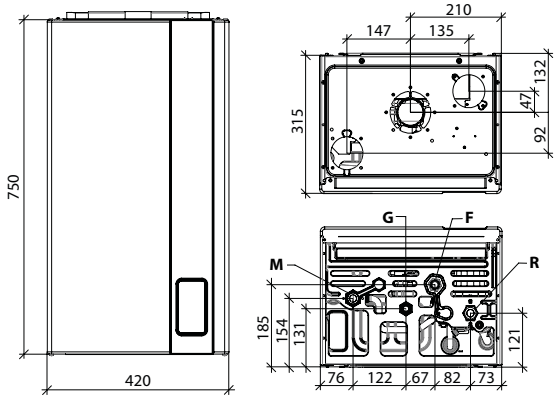
- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

Available in the following models:

24 28 32

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 24	NATURAL GAS	CFNXX2RA24	25,5	420x750x315	35,50
	LPG	CFNXX3RA24			
RTFS 28	NATURAL GAS	CFNXX2RA28	30,5	420x750x315	36,50
	LPG	CFNXX3RA28			
RTFS 32	NATURAL GAS	CFNXX2RA32	33,0	420x750x315	37,00
	LPG	CFNXX3RA32			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

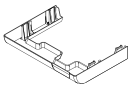
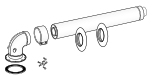
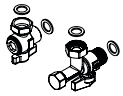


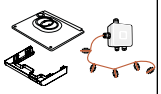


M CH system flow (3/4")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	RTFS 24	RTFS 28	RTFS 32
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating expansion vessel capacity	l	7	7	7
NOx emission class	-	3	3	3
Electric protection rating	IP	X5D	X5D	X5D

For other technical specifications, see from page 164

Item	Description	Code
	Pipes and taps low plastic cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Coaxial flue kit	0SDOPPIA13
	Tap kit with filter KR-KB-RT	0KITRUBI04

Item	Description	Code
	Electric kit for complex solar plant management	0KITSOLC08
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00
	hot water storage tank temperature probe 3m	0KITSOND00
	Cover and anti-freeze protection kit	0KITCOPE03
	External protection kit for standard boilers	0KITCOPE04
	Coaxial air intake/flue gas venting connection for B22 type installations	0ATTCOVE04

For other accessories, see from page 201

ANTEA CTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT WITH INSTANT DHW PRODUCTION



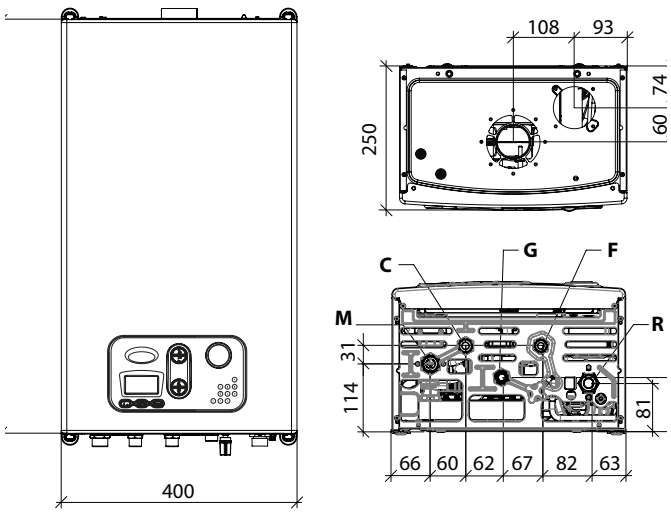
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- Heating expansion vessel - 7 litres
- Stainless steel plate DHW heat exchanger
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- Exclusive compact version circulation pump with integrated air purging device
- Automatic by-pass

Available in the following models:

24

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 24	NATURAL GAS	CAKXX2CA24	25,5	25,5	400x700x250	28,00
	LPG	CAKXX3CA24				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

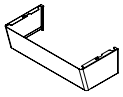
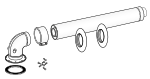
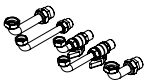


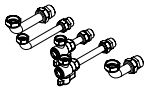


M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")
G	Gas inlet (1/2")		

Technical data	um	CTFS 24
Nominal heat input (Qn)	kW	25,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat input (Qr)	kW	12,5
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Heating expansion vessel capacity	l	7
DHW nominal heat input	kW	25,5
Specific DHW flow ΔT=30K	l/min	11,1
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 165

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Basic hydraulic kit	0KITIDBA29

Item	Description	Code
	Plus hydr. kit for basic compact unit	0KITIDBA14
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Kit for connection to solar plant	0KITSOLC07
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial flue kit	0SDOPPIA13
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 201

ANTEA CTN

WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT WITH INSTANT DHW PRODUCTION



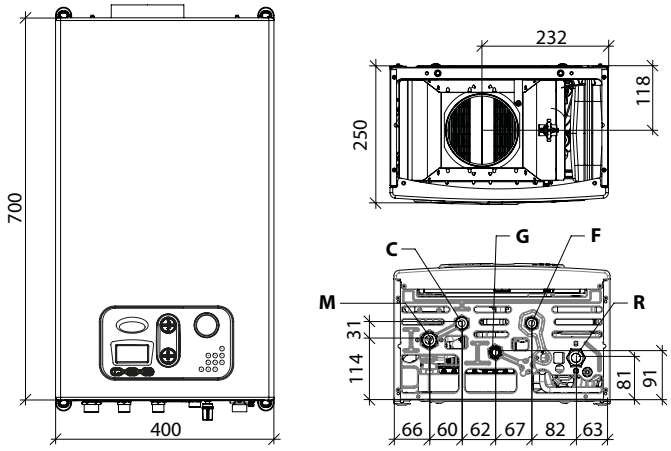
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Heating expansion vessel - 7 litres
- Stainless steel plate DHW heat exchanger
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Automatic by-pass
- Mono-thermal primary heat exchanger

Available in the following models:

24

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTN 24	NATURAL GAS	CAKXX2CC24	24,5	24,5	400x700x250	25,00
	LPG	CAKXX3CC24				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

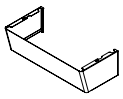
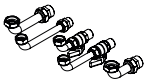


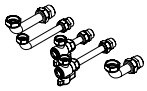


M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")
G	Gas inlet (1/2")		

Technical data	um	CTN 24
Nominal heat input (Qn)	kW	24,5
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat input (Qr)	kW	12,0
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Heating expansion vessel capacity	l	7
DHW nominal heat input	kW	24,5
Specific DHW flow ΔT=30K	l/min	10,6
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 166

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Flow - return cold water 90° taps kit	0KITIDBA11
	Basic hydraulic kit	0KITIDBA29

Item	Description	Code
	Plus hydr. kit for basic compact unit	0KITIDBA14
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Kit for connection to solar plant	0KITSOLC07
	Electric kit for complex solar plant management	0KITSOLC08
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01

For other accessories, see from page 201

ANTEA RBTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY, WITH INTEGRATED 3-WAY VALVE
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



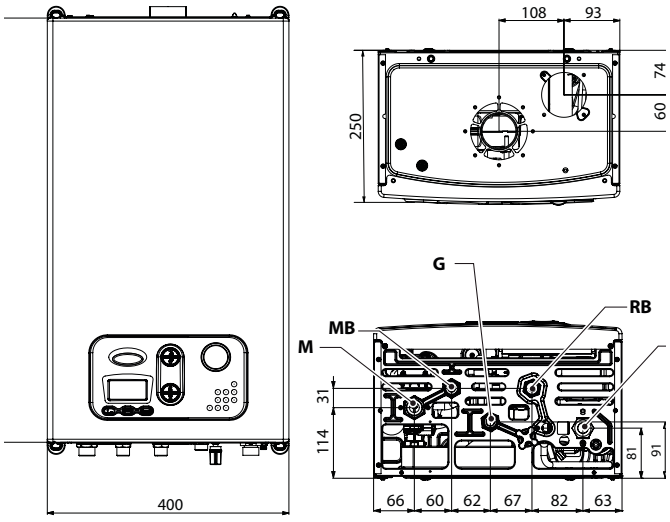
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Mono-thermal primary heat exchanger**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Integrated 3-way deviating valve**
- Heating expansion vessel - 7 litres
- Programmable parameters to adapt the boiler to the installation and alerts history
- Hydraulic unit in composite material
- Pump unit including: air purging device, water pressure switch, safety valve calibrated at 3 bar, discharge tap and filler tap
- Automatic by-pass
- Exclusive compact version circulation pump with integrated air purging device

Available in the following models:

24

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 24	NATURAL GAS	CAKXX2RF24	25,5	400x700x250	27,50
	LPG	CAKXX3RF24			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

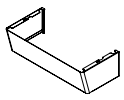
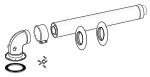




M	CH system flow - 3/4"	**RB**	Secondary return from hot water storage tank (1/2")
MB	Secondary flow to hot water storage tank (1/2")		
G	Gas inlet (1/2")	**R**	CH system return - 3/4"

Technical data	um	RBTFS 24
Nominal heat input (Qn)	kW	25,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat input (Qr)	kW	12,5
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 167

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Electric kit for complex solar plant management	0KITSOLC08
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 201

ANTEA RBTN

WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT, CH ONLY, WITH INTEGRATED 3-WAY VALVE CONNECTION
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



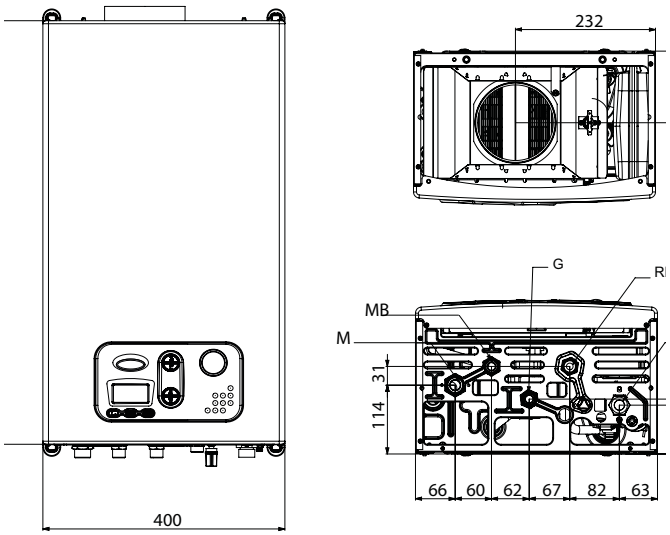
Available in the following models:

24

- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- **Integrated 3-way deviating valve**
- Heating expansion vessel - 7 litres
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- Mono-thermal primary heat exchanger
- Pump unit including: air purging device, water pressure switch, safety valve calibrated at 3 bar, discharge tap and filler tap
- Automatic by-pass
- Exclusive compact version circulation pump with integrated air purging device

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTN 24	NATURAL GAS	CAKXX2RH24	24,5	400x700x250	25,00
	LPG	CAKXX3RH24			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

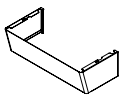
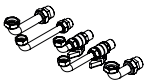
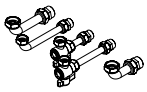


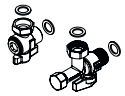


M	CH system flow - 3/4"	**RB**	Secondary return from hot water storage tank (1/2")
MB	Secondary flow to hot water storage tank (1/2")		
G	Gas inlet (1/2")	**R**	CH system return - 3/4"

Technical data	um	RBTN 24
Nominal heat input (Qn)	kW	24,5
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat input (Qr)	kW	12,0
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 168

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Flow - return cold water 90° taps kit	0KITIDBA11
	Basic hydraulic kit	0KITIDBA29
	Plus hydr. kit for basic compact unit	0KITIDBA14

Item	Description	Code
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 201

ANTEA RTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



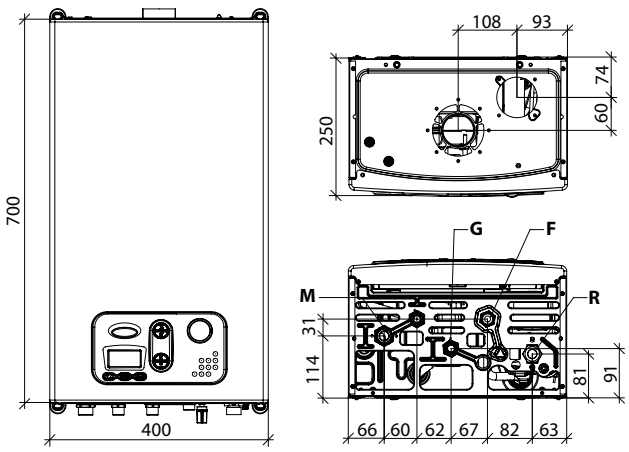
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Heating expansion vessel - 7 litres
- Programmable parameters to adapt the boiler to the installation and alerts history
- Hydraulic unit in composite material
- Pump unit including: air purging device, water pressure switch, safety valve calibrated at 3 bar, discharge tap and filler tap
- Automatic by-pass
- Exclusive compact version circulation pump with integrated air purging device

Available in the following models:

24

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 24	NATURAL GAS	CAKXX2RA24	25,5	400x700x250	27,50
	LPG	CAKXX3RA24			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

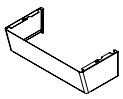
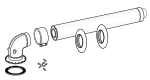


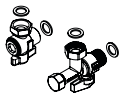


M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
G	Gas inlet (1/2")	**R**	CH system return (3/4")

Technical data	um	RTFS 24
Nominal heat input (Qn)	kW	25,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat input (Qr)	kW	12,5
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 169

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Coaxial flue kit	0SDOPPIA13
	hot water storage tank temperature probe 3m	0KITSOND00

For other accessories, see from page 201

ANTEA RTN

CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)
WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT, CH ONLY.



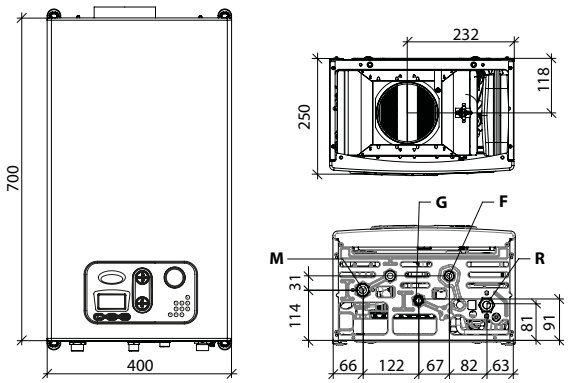
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Heating expansion vessel - 7 litres
- Mono-thermal primary heat exchanger
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass
- Compatible with SPOT smart thermostat

Available in the following models:

24

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTN 24	NATURAL GAS	CAKXX2RC24	24,5	400x700x250	25,00
	LPG	CAKXX3RC24			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

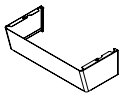
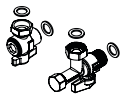




M CH system flow (3/4")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	RTN 24
Nominal heat input (Qn)	kW	24,5
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat input (Qr)	kW	12,0
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 170

Item	Description	Code
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Tap kit with filter KR-KB-RT	0KITRUBI04

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 201

ANTEA CTFS 40

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT WITH INSTANT DHW PRODUCTION



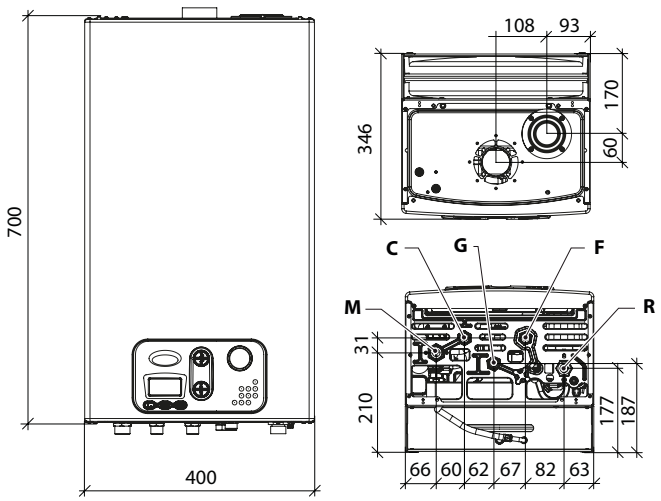
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Heating expansion vessel - 10 litres**
- **Thermoregulation with external probe (optional)**
- **High domestic hot water production (22.2 l/min ΔT 25°C)**
- Stainless steel, atmospheric burner that can run on several gases
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- Flame modulation in CH and DHW modes
- Stainless steel plate DHW heat exchanger
- Automatic by-pass

Available in the following models:

40

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 40	NATURAL GAS	CAKXX2CA40	41,0	41,0	400x700x346	33,00
	LPG	CAKXX3CA40				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

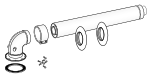




M CH system flow (3/4")
C DHW outlet (1\2")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	CTFS 40
Water heating energy efficiency (ηwh)	%	78
Nominal heat input (Qn)	kW	41,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat input (Qr)	kW	15,0
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
Heating expansion vessel capacity	l	10
DHW nominal heat input	kW	41,0
Specific DHW flow ΔT=30K	l/min	18,5
NOx emission class	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 171

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Kit for connection to solar plant	0KITSOLC07
	Electric kit for complex solar plant management	0KITSOLC08
	Coaxial flue kit	0SDOPPIA13
	Basic solar kit	0KITSOLC09

For other accessories, see from page 201

ANTEA RBTFS 40

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY, WITH INTEGRATED 3-WAY VALVE
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL)



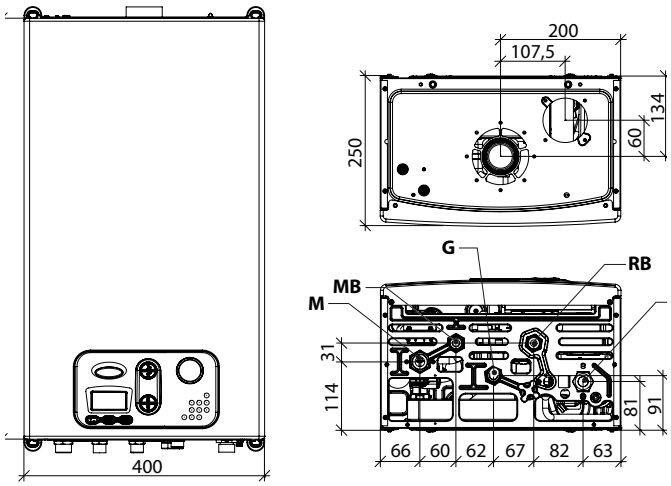
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- **Programmable parameters to adapt the boiler to the installation and alerts history**
- **Integrated 3-way deviating valve**
- Stainless steel, atmospheric burner that can run on several gases
- Hydraulic unit in composite material
- Flame modulation in CH and DHW modes
- Automatic by-pass

Available in the following models:

40

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 40	NATURAL GAS	CAKXX2RF40	41,0	400x700x250	24,50
	LPG	CAKXX3RF40			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

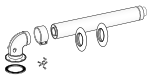




M	CH system flow (3/4")	**RB**	Secondary return from hot water storage tank (1/2")
MB	Secondary flow to hot water storage tank (1/2")		
G	Gas inlet (1/2")	**R**	CH system return (3/4")

Technical data	um	RBTFS 40
Nominal heat input (Qn)	kW	41,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat input (Qr)	kW	15,0
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
NOx emission class	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 172

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial flue kit	0SDOPPIA13
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 201

ANTEA RTFS 40

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY
CONNECTION TO AN EXTERNAL HOT WATER STORAGE TANK (OPTIONAL) WITH EXTERNAL 3-WAY VALVE (OPTIONAL)



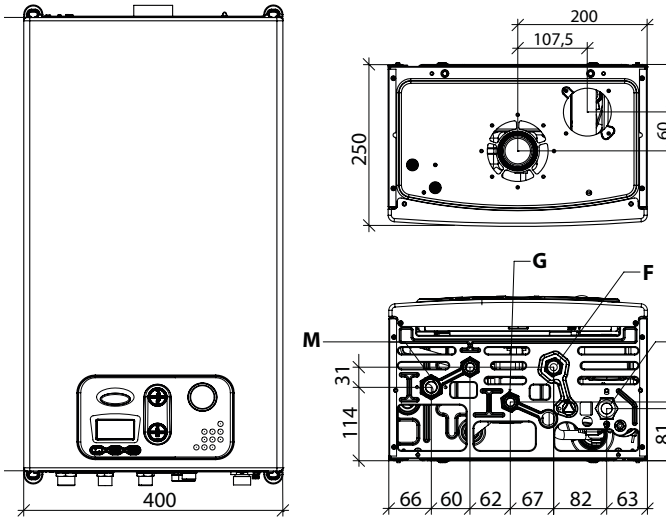
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Stainless steel, atmospheric burner that can run on several gases
- Hydraulic unit in composite material
- Additional relay to manage 2 heating zones
- Programmable parameters to adapt the boiler to the installation and alerts history
- Flame modulation in CH and DHW modes
- Automatic by-pass

Available in the following models:

40

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 40	NATURAL GAS	CAKXX2RA40	41,0	400x700x250	24,40
	LPG	CAKXX3RA40			

DIMENSIONS AND CONNECTION CENTRE DISTANCES

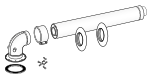
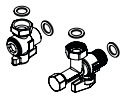




M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
G	Gas inlet (1/2")	**R**	CH system return (3/4")

Technical data	um	RTFS 40
Nominal heat input (Qn)	kW	41,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat input (Qr)	kW	15,0
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
NOx emission class	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 173

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Tap kit with filter KR-KB-RT	0KITRUBI04

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01
	hot water storage tank temperature probe 3m	0KITSOND00
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 201

MAIORCA CTFS

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT WITH INSTANT DHW PRODUCTION



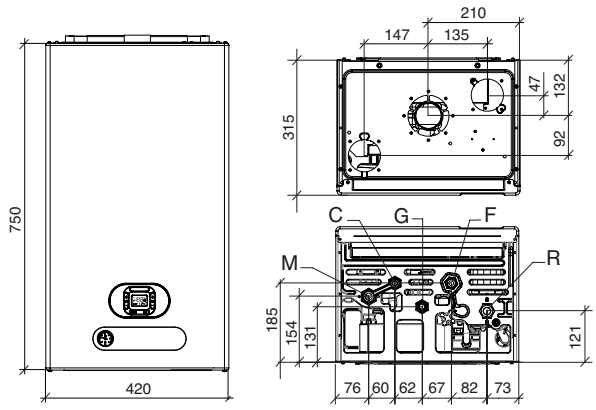
- **Ambient temperature probe supplied as standard**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Thermoregulation with external probe (optional)**
- **LCD user interface with diagnostics**
- Mono-thermal primary heat exchanger
- 3-speed circulation pump with built-in air purging device
- Heating expansion vessel - 7 litres
- Programmable parameters to adapt the boiler to the installation and alerts history
- Stainless steel plate DHW heat exchanger
- Automatic by-pass

Available in the following models:

28 32

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 28	NATURAL GAS	CMGXX2CA28	30,5	30,5	420x750x315	38,00
	LPG	CMGXX3CA28				
CTFS 32	NATURAL GAS	CMGXX2CA32	33,0	33,0	420x750x315	38,50
	LPG	CMGXX3CA32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

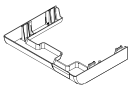
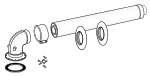


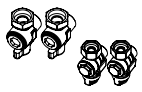


M CH system flow (3/4")
C DHW outlet (1\2")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	CTFS 28	CTFS 32
Nominal heat input (Qn)	kW	30,5	33,0
Nominal heat output (80-60°C) (Pn)	kW	28,6	30,8
Reduced heat input (Qr)	kW	13,5	16,0
Useful efficiency at nominal input (80-60°C)	%	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,6	91,0
Heating expansion vessel capacity	l	7	7
DHW nominal heat input	kW	30,5	33,0
Specific DHW flow ΔT=30K	l/min	14,2	15,1
NOx emission class	-	3	3
Electric protection rating	IP	X4D	X4D

For other technical specifications, see from page 174

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Wall spacing kit	0DISTANZ00
	Pipes and taps low plastic cover	0COPETUB03
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Coaxial flue kit	0SDOPPIA13

Item	Description	Code
	Split comp. plus kit '11 (while stocks last)	0SDOPPIA12
	External probe (60x45x31 mm)	0SONDAES01
	Basic hydraulic kit	0KITIDBA16
	4 angled tap valves kit	0KITIDBA24

For other accessories, see from page 201

Accessories supplied as standard

Item	Description
	Ambient temperature probe

MINORCA CTFS (CU)

WALL-HUNG GAS BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT WITH INSTANT DHW PRODUCTION



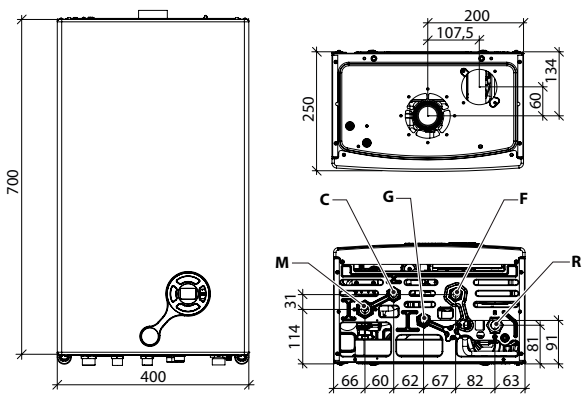
- **Mono-thermal, copper heat exchanger**
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Ambient temperature probe supplied as standard**
- Stainless steel plate DHW heat exchanger
- Exclusive compact version circulation pump with integrated air purging device
- LCD interface to view CH flow water temperature, DHW outlet temperature, failure codes, CH setting, DHW setting and operating status setting
- Programmable parameters to adapt the boiler to the installation and alerts history
- Hydraulic unit in composite material
- Heating expansion vessel - 6 litres

Available in the following models:

9 11 13 15 18 24

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 9	NATURAL GAS	CMKXX2CG09	10,4	20,0	400x700x250	25,00
	LPG	CMKXX3CG09				
CTFS 11	NATURAL GAS	CMKXX2CG11	12,3	20,0	400x700x250	25,00
	LPG	CMKXX3CG11				
CTFS 13	NATURAL GAS	CMKXX2CG13	14,2	20,0	400x700x250	25,00
	LPG	CMKXX3CG13				
CTFS 15	NATURAL GAS	CMKXX2CG15	16,4	20,0	400x700x250	25,00
	LPG	CMKXX3CG15				
CTFS 18	NATURAL GAS	CMKXX2CG18	20,0	20,0	400x700x250	25,50
	LPG	CMKXX3CG18				
CTFS 24	NATURAL GAS	CMKXX2CG24	25,5	25,5	400x700x250	25,50
	LPG	CMKXX3CG24				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

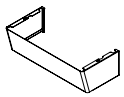
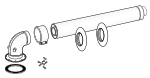
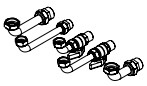


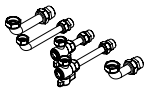


M CH system flow (3/4")
C DHW outlet (1\2")
G Gas inlet (1/2")
F Cold water inlet (1/2")
R CH system return (3/4")

Technical data	um	CTFS 9	CTFS 11	CTFS 13	CTFS 15	CTFS 18	CTFS 24
Nominal heat input (Qn)	kW	10,4	12,3	14,2	16,4	20,0	25,5
Nominal heat output (80-60°C) (Pn)	kW	9,3	11,1	13,0	15,1	18,6	23,3
Reduced heat input (Qr)	kW	7,0	7,0	7,0	7,0	7,0	11,5
Useful efficiency at nominal input (80-60°C)	%	89,2	90,2	91,2	91,8	93,2	91,2
Useful efficiency at 30% (47°C return)	%	86,2	86,9	87,6	87,7	88,2	87,4
Heating expansion vessel capacity	l	6	6	6	6	6	6
DHW nominal heat input	kW	20,0	20,0	20,0	20,0	20,0	25,5
Specific DHW flow ΔT=30K	l/min	9,5	9,5	9,5	9,5	9,5	11,7
NOx emission class	-	3	3	3	3	3	3
Electric protection rating	IP	X4D	X4D	X4D	X4D	X4D	X4D

For other technical specifications, see from page 175

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Basic hydraulic kit	0KITIDBA29

Item	Description	Code
	Plus hydr. kit for basic compact unit	0KITIDBA14
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 201

Accessories supplied as standard

Item	Description
	Ambient temperature probe

MINORCA CTN (CU)

WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT WITH INSTANT DHW PRODUCTION



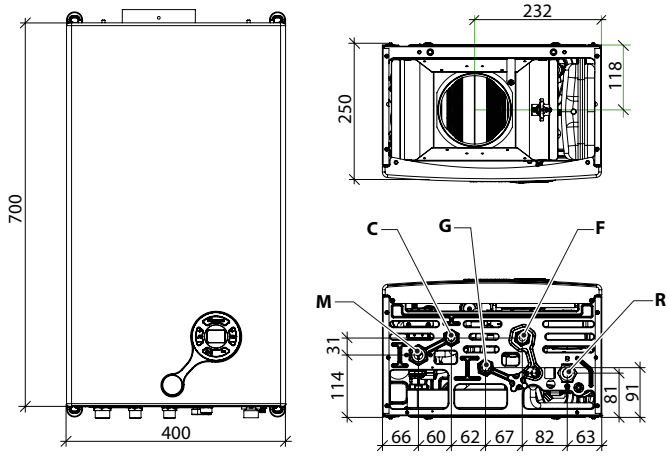
- **Mono-thermal, copper heat exchanger**
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Ambient temperature probe supplied as standard**
- Stainless steel plate DHW heat exchanger
- LCD interface to view CH flow water temperature, DHW outlet temperature, failure codes, CH setting, DHW setting and operating status setting
- Programmable parameters to adapt the boiler to the installation and alerts history
- Hydraulic unit in composite material
- Heating expansion vessel - 6 litres

Available in the following models:

24

Model	Gas type	Code	Heat input		W x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTN 24	NATURAL GAS	CMKXX2CH24	24,5	24,5	400x700x250	24,0
	LPG	CMKXX3CH24				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

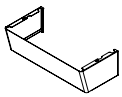


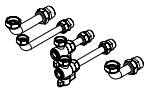


M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")
G	Gas inlet (1/2")		

Technical data	um	CTN 24
Nominal heat input (Qn)	kW	24,5
Nominal heat output (80-60°C) (Pn)	kW	21,8
Reduced heat input (Qr)	kW	12,0
Useful efficiency at nominal input (80-60°C)	%	89,1
Useful efficiency at 30% (47°C return)	%	86,7
Heating expansion vessel capacity	l	6
DHW nominal heat input	kW	24,5
Specific DHW flow ΔT=30K	l/min	11,0
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 176

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	0COPETUB00
	Kit for connection to solar plant	0KITSOLC07
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Plus hydr. kit for basic compact unit	0KITIDBA14
	Flow - return cold water 90° taps kit	0KITIDBA11
	Ambient temperature probe	0KITSAMB00

For other accessories, see from page 201

Accessories supplied as standard

Item	Description
	Ambient temperature probe

BALI RTN E

FLOOR-STANDING BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT, CH ONLY



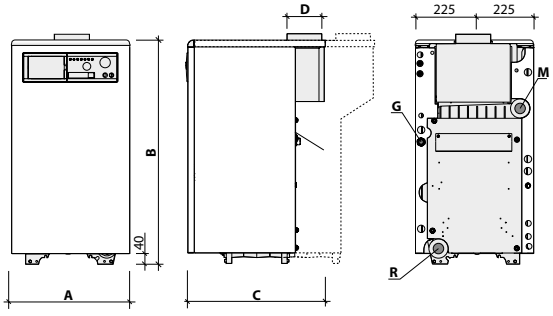
- **Stainless steel atmospheric burner**
- **Electronic ignition and ionisation flame detection device**
- **Heat exchanger with cast iron elements**
- Prearrangement for connection to the electric board for the remote management of a water heater (optional), and for the connection to the electric board for the management of three heating zones (optional)
- Control and management electric panel, CH circulation pump control, prearranged for connection to the ambient thermostat and to a water pressure switch
- Safety limit thermostat
- Safety flue gas thermostat

Available in the following models:

from 32 to 100

Model	Gas type	Code	Heat output (kW)	Energy efficiency class	A x B x C	D	G	Gross weight (kg)
			Nominal Pn	Room heating	mm	mm	inches	
RTN E 32	NATURAL GAS	CBAXX2MF32	31.5	C	450x850x625	130	¾"	151
	LPG	CBAXX3MF32						
RTN E 36	NATURAL GAS	CBAXX2MF36	36	C	450x850x625	130	¾"	151
	LPG	CBAXX3MF36						
RTN E 48	NATURAL GAS	CBAXX2MF48	48	C	450x850x765	150	¾"	183,5
	LPG	CBAXX3MF48						
RTN E 60	NATURAL GAS	CBAXX2MF60	60	C	450x1000x935	180	1"	229
	LPG	CBAXX3MF60						
RTN E 70	NATURAL GAS	CBAXX2MF70	70	-	450x1000x1052	180	1"	263,5
	LPG	CBAXX3MF70						
RTN E 80	NATURAL GAS	CBAXX2MF80	80	-	450x1000x1153	200	1"	297,5
	LPG	CBAXX3MF80						
RTN E 90	NATURAL GAS	CBAXX2MF90	90	-	450x1000x1280	220	1"	332,5
	LPG	CBAXX3MF90						
RTN E 100	NATURAL GAS	CBAXX2MF1A	100	-	450x1000x1430	250	1"	371,5
	LPG	CBAXX3MF1A						

DIMENSIONS AND CONNECTION CENTRE DISTANCES

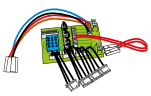


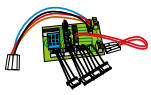


G Gas connection (see table)
M Flow (1" 1/2)
R Return (1" 1/2)

Model	-	RTN E 32	RTN E 36	RTN E 48
Type	-	B11BS	B11BS	B11BS
Ignition	-	ELECTRONIC	ELECTRONIC	ELECTRONIC
Heat exchanger number of elements	-	4	4	5
Nominal heat output (80-60°C) (Pn)	kW	31.5	36	48
Nominal heat input (Qn)	kW	34.4	39.2	52.8
Useful efficiency at nominal input (80-60°C)	%	90.9	90.83	91.84
Useful efficiency at 30% (30°C return)	%	89	90.75	90.4
Water capacity	l	13,4	13,4	16,8
Minimum water flow	l/h	680	770	1030
CH temperature setting range	°C	45 ÷ 85	45 ÷ 85	45 ÷ 85
Maximum pressure of the heating circuit	bar	4	4	4
Flue gas discharge pipe diameter	mm	130	130	150
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	10	10	10
Electric protection rating	IP	40	40	40

Model	-	RTN E 60	RTN E 70	RTN E 80	RTN E 90	RTN E 100
Type	-	B11BS	B11BS	B11BS	B11BS	B11BS
Ignition	-	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
Heat exchanger number of elements	-	6	7	8	9	10
Nominal heat output (80-60°C) (Pn)	kW	60	70	80	90	100
Nominal heat input (Qn)	kW	66	76.3	87.3	98.2	109.7
Useful efficiency at nominal input (80-60°C)	%	91.7	91.7	91.7	91.6	91.6
Useful efficiency at 30% (30°C return)	%	90.6	90.4	90.3	90.3	90.22
Water capacity	l	20,2	23,5	26,8	30,1	33,4
Minimum water flow	l/h	1200	1500	1700	1900	2100
CH temperature setting range	°C	45 ÷ 85	45 ÷ 85	45 ÷ 85	45 ÷ 85	45 ÷ 85
Maximum pressure of the heating circuit	bar	4	4	4	4	4
Flue gas discharge pipe diameter	mm	180	180	200	220	250
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	20	20	20	20	20
Electric protection rating	IP	40	40	40	40	40

Item	Description	Code
	Remote control for thermoregulation control unit (temperature regulation), ErP VI class (87x87x31 mm)	0CREMOTO00
	Remote control for thermoregulation control unit, ErP V class (146x97x34 mm)	0CREMOTO01
	Daily timer kit (61.5 x 61.5 x 34.5 mm)	0KITBEST04
	Weekly timer kit (61.5 x 61.5 x 34.5 mm)	0KITBEST05
	External hot water storage tank kit for BALI RTN E	0KITBEST06

Item	Description	Code
	Kit for zone pumps	0KITPOMZ00
	Ext. heat. kit for BALI RTN E	0KITPOVA03
	Pump and vessel kit for BALI RTN E for hot water storage tank	0KITPOVA04
	Hydraulic kit with pump and expansion tank - BALI RTN E	0KITPOVA05

For other accessories, see from page 201

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Formentera	Formentera	Formentera
Model	-	CTFS 24	CTFS 28	CTFS 32
Type	-	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat output (80-60°C) (Pr)	kW	11,1	12,0	14,3
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78	35-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	7	7	7
DHW nominal heat input	kW	25,5	30,5	33,0
DHW minimum heat input	kW	12,5	13,5	16,0
DHW nominal heat output (ΔT 30°C)	kW	23,7	28,6	30,8
DHW minimum heat output (ΔT 30°C)	kW	11,1	12,0	14,3
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	11,6	14,2	15,1
DHW temperature range	°C	35-57	35-57	35-57
DHW maximum working temperature	°C	62	62	62
NOx emission class	-	3	3	3
Casing heat loss with burner on at nominal heat input	%	1,05	0,76	1,37
Casing heat loss with burner off	%	0,26	0,20	0,20
Chimney heat loss with burner on at nominal heat input	%	5,97	5,54	5,23
Air-flue ΔT at nominal heat input	°C	95	101	105
Flue gas flow at nominal heat input	g/s	15,44	17,29	17,8
CO2 at nominal heat input of heating (Natural gas)	%	6,1	7,0	7,4
CO2 at nominal heat input of heating (Propane)	%	6,7	7,7	8,4
CO2 at nominal heat input of heating (Butane gas)	%	7,0	8,0	8,7
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	125	134	134
Circulation pump power input	W	69	69	69
Electric protection rating	IP	X5D	X5D	X5D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Formentera	Formentera	Formentera
Model	-	RBTFS 24	RBTFS 28	RBTFS 32
Type	-	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat output (80-60°C) (Pr)	kW	11,1	12,0	14,3
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78	35-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	7	7	7
NOx emission class	-	3	3	3
Casing heat loss with burner on at nominal heat input	%	1,05	0,76	1,37
Casing heat loss with burner off	%	0,26	0,20	0,20
Chimney heat loss with burner on at nominal heat input	%	5,97	5,54	5,23
Air-flue ΔT at nominal heat input	°C	95	101	105
Flue gas flow at nominal heat input	g/s	15,44	17,29	17,8
CO2 at nominal heat input of heating (Natural gas)	%	6,1	7,0	7,4
CO2 at nominal heat input of heating (Propane)	%	6,7	7,7	8,4
CO2 at nominal heat input of heating (Butane gas)	%	7,0	8,0	8,7
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	125	134	134
Circulation pump power input	W	69	69	69
Electric protection rating	IP	X5D	X5D	X5D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Formentera	Formentera	Formentera
Model	-	RTFS 24	RTFS 28	RTFS 32
Type	-	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5	30,5	33,0
Reduced heat input (Qr)	kW	12,5	13,5	16,0
Nominal heat output (80-60°C) (Pn)	kW	23,7	28,6	30,8
Reduced heat output (80-60°C) (Pr)	kW	11,1	12,0	14,3
Useful efficiency at nominal input (80-60°C)	%	93,0	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,2	90,6	91,0
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78	35-78
CH maximum working temperature	°C	83	83	83
Heating expansion vessel capacity	l	7	7	7
NOx emission class	-	3	3	3
Casing heat loss with burner on at nominal heat input	%	1,05	0,76	1,37
Casing heat loss with burner off	%	0,26	0,20	0,20
Chimney heat loss with burner on at nominal heat input	%	5,97	5,54	5,23
Air-flue ΔT at nominal heat input	°C	95	101	105
Flue gas flow at nominal heat input	g/s	15,44	17,29	17,8
CO2 at nominal heat input of heating (Natural gas)	%	6,1	7,0	7,4
CO2 at nominal heat input of heating (Propane)	%	6,7	7,7	8,4
CO2 at nominal heat input of heating (Butane gas)	%	7,0	8,0	8,7
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50
Maximum power consumption	W	125	134	134
Circulation pump power input	W	69	69	69
Electric protection rating	IP	X5D	X5D	X5D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	CTFS 24
Type	-	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5
Reduced heat input (Qr)	kW	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat output (80-60°C) (Pr)	kW	11,1
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Useful efficiency at reduced flow rate (80-60°C)	%	88,7
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
DHW nominal heat input	kW	25,5
DHW minimum heat input	kW	8,6
DHW nominal heat output (ΔT 30°C)	kW	23,7
DHW minimum heat output (ΔT 30°C)	kW	11,0
DHW circuit working pressure (min-max)	bar	0,5-8,0
Specific DHW flow ΔT=30K	l/min	11,1
DHW temperature range	°C	35-57
DHW maximum working temperature	°C	62
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	1,01
Casing heat loss with burner off	%	0,23
Chimney heat loss with burner on at nominal heat input	%	5,89
Air-flue ΔT at nominal heat input	°C	98
Flue gas flow at nominal heat input	g/s	14,18
CO2 at nominal heat input of heating (Natural gas)	%	6,8
CO2 at nominal heat input of heating (Propane)	%	7,7
CO2 at nominal heat input of heating (Butane gas)	%	8,0
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	120
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	CTN 24
Type	-	B11BS
Nominal heat input (Qn)	kW	24,5
Reduced heat input (Qr)	kW	12,0
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat output (80-60°C) (Pr)	kW	10,46
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Useful efficiency at reduced flow rate (80-60°C)	%	87,15
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
DHW nominal heat input	kW	24,5
DHW minimum heat input	kW	12,0
DHW nominal heat output (ΔT 30°C)	kW	22,07
DHW minimum heat output (ΔT 30°C)	kW	10,46
DHW circuit working pressure (min-max)	bar	0,5-8,0
Specific DHW flow ΔT=30K	l/min	10,6
DHW temperature range	°C	35-57
DHW maximum working temperature	°C	62
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	3,04
Casing heat loss with burner off	%	0,61
Chimney heat loss with burner on at nominal heat input	%	6,86
Air-flue ΔT at nominal heat input	°C	83
Flue gas flow at nominal heat input	g/s	16,72
CO2 at nominal heat input of heating (Natural gas)	%	5,7
CO2 at nominal heat input of heating (Propane)	%	7,3
CO2 at nominal heat input of heating (Butane gas)	%	6,7
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	88
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Flue gas discharge pipes diameter	mm	130

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RBTFS 24
Type	-	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5
Reduced heat input (Qr)	kW	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat output (80-60°C) (Pr)	kW	11,1
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Useful efficiency at reduced flow rate (80-60°C)	%	88,7
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	1,01
Casing heat loss with burner off	%	0,23
Chimney heat loss with burner on at nominal heat input	%	5,89
Air-flue ΔT at nominal heat input	°C	98
Flue gas flow at nominal heat input	g/s	14,18
CO2 at nominal heat input of heating (Natural gas)	%	6,8
CO2 at nominal heat input of heating (Propane)	%	7,7
CO2 at nominal heat input of heating (Butane gas)	%	8,0
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	120
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RBTN 24
Type	-	B11BS
Nominal heat input (Qn)	kW	24,5
Reduced heat input (Qr)	kW	12,0
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat output (80-60°C) (Pr)	kW	10,46
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Useful efficiency at reduced flow rate (80-60°C)	%	87,15
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	3,04
Casing heat loss with burner off	%	0,61
Chimney heat loss with burner on at nominal heat input	%	6,86
Air-flue ΔT at nominal heat input	°C	83
Flue gas flow at nominal heat input	g/s	16,72
CO2 at nominal heat input of heating (Natural gas)	%	5,7
CO2 at nominal heat input of heating (Propane)	%	7,3
CO2 at nominal heat input of heating (Butane gas)	%	6,7
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	88
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Flue gas discharge pipes diameter	mm	130

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RTFS 24
Type	-	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	25,5
Reduced heat input (Qr)	kW	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,7
Reduced heat output (80-60°C) (Pr)	kW	11,1
Useful efficiency at nominal input (80-60°C)	%	93,0
Useful efficiency at 30% (47°C return)	%	90,4
Useful efficiency at reduced flow rate (80-60°C)	%	88,7
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	1,01
Casing heat loss with burner off	%	0,23
Chimney heat loss with burner on at nominal heat input	%	5,89
Air-flue ΔT at nominal heat input	°C	98
Flue gas flow at nominal heat input	g/s	14,18
CO2 at nominal heat input of heating (Natural gas)	%	6,8
CO2 at nominal heat input of heating (Propane)	%	7,7
CO2 at nominal heat input of heating (Butane gas)	%	8,0
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	120
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RTN 24
Type	-	B11BS
Nominal heat input (Qn)	kW	24,5
Reduced heat input (Qr)	kW	12,0
Nominal heat output (80-60°C) (Pn)	kW	22,07
Reduced heat output (80-60°C) (Pr)	kW	10,46
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (47°C return)	%	88,45
Useful efficiency at reduced flow rate (80-60°C)	%	87,15
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	7
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	3,04
Casing heat loss with burner off	%	0,61
Chimney heat loss with burner on at nominal heat input	%	6,86
Air-flue ΔT at nominal heat input	°C	83
Flue gas flow at nominal heat input	g/s	16,72
CO2 at nominal heat input of heating (Natural gas)	%	5,7
CO2 at nominal heat input of heating (Propane)	%	7,3
CO2 at nominal heat input of heating (Butane gas)	%	6,7
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	88
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Gas category	-	II2H3B/P

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	CTFS 40
Type	-	B22-C12-C32-C42-C52-C62-C82-C12X
Nominal heat input (Qn)	kW	41,0
Reduced heat input (Qr)	kW	15,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat output (80-60°C) (Pr)	kW	12,9
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	10
DHW nominal heat input	kW	41,0
DHW minimum heat input	kW	15,0
DHW nominal heat output (ΔT 30°C)	kW	38,0
DHW minimum heat output (ΔT 30°C)	kW	12,9
DHW circuit working pressure (min-max)	bar	0,5-6,0
Specific DHW flow ΔT=30K	l/min	18,5
DHW temperature range	°C	35-57
DHW maximum working temperature	°C	62
NOx emission class	-	3
Casing heat loss with burner on at nominal heat input	%	1,82
Casing heat loss with burner off	%	0,17
Chimney heat loss with burner on at nominal heat input	%	5,48
Air-flue ΔT at nominal heat input	°C	96,5
Flue gas flow at nominal heat input	g/s	26,7
CO2 at nominal heat input of heating (Natural gas)	%	6,6
CO2 at nominal heat input of heating (Propane)	%	7,8
CO2 at nominal heat input of heating (Butane gas)	%	7,8
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	157
Circulation pump power input	W	73
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RBTFS 40
Type	-	B22-C12-C32-C42-C52-C62-C82-C12X
Nominal heat input (Qn)	kW	41,0
Reduced heat input (Qr)	kW	15,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat output (80-60°C) (Pr)	kW	12,9
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
NOx emission class	-	3
Casing heat loss with burner on at nominal heat input	%	1,82
Casing heat loss with burner off	%	0,17
Chimney heat loss with burner on at nominal heat input	%	5,48
Air-flue ΔT at nominal heat input	°C	96,5
Flue gas flow at nominal heat input	g/s	26,7
CO2 at nominal heat input of heating (Natural gas)	%	6,6
CO2 at nominal heat input of heating (Propane)	%	7,8
CO2 at nominal heat input of heating (Butane gas)	%	7,8
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	157
Circulation pump power input	W	73
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Antea
Model	-	RTFS 40
Type	-	B22-C12-C32-C42-C52-C62-C82-C12X
Nominal heat input (Qn)	kW	41,0
Reduced heat input (Qr)	kW	15,0
Nominal heat output (80-60°C) (Pn)	kW	38,0
Reduced heat output (80-60°C) (Pr)	kW	12,9
Useful efficiency at nominal input (80-60°C)	%	92,7
Useful efficiency at 30% (47°C return)	%	89,4
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
NOx emission class	-	3
Casing heat loss with burner on at nominal heat input	%	1,82
Casing heat loss with burner off	%	0,17
Chimney heat loss with burner on at nominal heat input	%	5,48
Air-flue ΔT at nominal heat input	°C	96,5
Flue gas flow at nominal heat input	g/s	26,7
CO2 at nominal heat input of heating (Natural gas)	%	6,6
CO2 at nominal heat input of heating (Propane)	%	7,8
CO2 at nominal heat input of heating (Butane gas)	%	7,8
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	157
Circulation pump power input	W	73
Electric protection rating	IP	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Maiorca	Maiorca
Model	-	CTFS 28	CTFS 32
Type	-	B22-C12-C32-C42-C52-C82-C12X	B22-C12-C32-C42-C52-C82-C12X
Nominal heat input (Qn)	kW	30,5	33,0
Reduced heat input (Qr)	kW	13,5	16,0
Nominal heat output (80-60°C) (Pn)	kW	28,6	30,8
Reduced heat output (80-60°C) (Pr)	kW	12,0	14,3
Useful efficiency at nominal input (80-60°C)	%	93,7	93,4
Useful efficiency at 30% (47°C return)	%	90,6	91,0
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78
CH maximum working temperature	°C	83	83
Heating expansion vessel capacity	l	7	7
DHW nominal heat input	kW	30,5	33,0
DHW minimum heat input	kW	13,5	16,0
DHW nominal heat output (ΔT 30°C)	kW	28,6	30,8
DHW minimum heat output (ΔT 30°C)	kW	12,0	14,3
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	14,2	15,1
DHW temperature range	°C	35-57	35-57
DHW maximum working temperature	°C	62	62
NOx emission class	-	3	3
Casing heat loss with burner on at nominal heat input	%	0,76	1,37
Casing heat loss with burner off	%	0,20	0,20
Chimney heat loss with burner on at nominal heat input	%	5,54	5,23
Air-flue ΔT at nominal heat input	°C	101	105
Flue gas flow at nominal heat input	g/s	17,29	17,8
CO2 at nominal heat input of heating (Natural gas)	%	7,0	7,4
CO2 at nominal heat input of heating (Propane)	%	7,7	8,4
CO2 at nominal heat input of heating (Butane gas)	%	8,0	8,7
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	145	145
Circulation pump power input	W	90	90
Electric protection rating	IP	X4D	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Minorca	Minorca	Minorca	Minorca	Minorca	Minorca
Model	-	CTFS 9	CTFS 11	CTFS 13	CTFS 15	CTFS 18	CTFS 24
Type	-	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82	B22-C12-C12X-C32-C42-C52-C62-C82
Nominal heat input (Qn)	kW	10,4	12,3	14,2	16,4	20,0	25,5
Reduced heat input (Qr)	kW	7,0	7,0	7,0	7,0	7,0	11,5
Nominal heat output (80-60°C) (Pn)	kW	9,3	11,1	13,0	15,1	18,6	23,3
Reduced heat output (80-60°C) (Pr)	kW	6,0	6,0	6,0	6,0	6,0	9,9
Useful efficiency at nominal input (80-60°C)	%	89,2	90,2	91,2	91,8	93,2	91,2
Useful efficiency at 30% (47°C return)	%	86,2	86,9	87,6	87,7	88,2	87,4
Heating circuit working pressure (min-max)	bar	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0	0,5-3,0
CH temperature setting range	°C	35-78	35-78	35-78	35-78	35-78	35-78
CH maximum working temperature	°C	83	83	83	83	83	83
Heating expansion vessel capacity	l	6	6	6	6	6	6
DHW nominal heat input	kW	20,0	20,0	20,0	20,0	20,0	25,5
DHW minimum heat input	kW	18,6	18,6	18,6	18,6	18,6	23,1
DHW nominal heat output (ΔT 30°C)	kW	7,0	7,0	7,0	7,0	7,0	11,5
DHW minimum heat output (ΔT 30°C)	kW	6,0	6,0	6,0	6,0	6,0	9,9
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	9,5	9,5	9,5	9,5	9,5	11,7
DHW temperature range	°C	35-57	35-57	35-57	35-57	35-57	35-57
DHW maximum working temperature	°C	62	62	62	62	62	62
NOx emission class	-	3	3	3	3	3	3
Casing heat loss with burner on at nominal heat input	%	1,59	1,46	1,46	1,37	1,55	1,96
Casing heat loss with burner off	%	0,31	0,25	0,22	0,19	0,16	0,11
Chimney heat loss with burner on at nominal heat input	%	9,05	7,90	7,32	6,83	5,25	6,84
Air-flue ΔT at nominal heat input	°C	101,3	101,3	101,3	101,3	101,3	125,5
Flue gas flow at nominal heat input	g/s	11,5	11,5	11,5	11,5	11,5	15,4
CO2 at nominal heat input of heating (Natural gas)	%	7,0	7,0	7,0	7,0	7,0	6,7
CO2 at nominal heat input of heating (Propane)	%	7,6	7,6	7,6	7,6	7,6	7,9
CO2 at nominal heat input of heating (Butane gas)	%	8,1	8,1	8,1	8,1	8,1	7,9
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	120	120	120	120	120	120
Circulation pump power input	W	84	84	84	84	84	84
Electric protection rating	IP	X4D	X4D	X4D	X4D	X4D	X4D
Air intake/flue gas vent pipe diameter	mm	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80	100/60 125/80 80+80

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical data	um	Minorca
Model	-	CTN 24
Type	-	B11BS
Nominal heat input (Qn)	kW	24,5
Reduced heat input (Qr)	kW	12,0
Nominal heat output (80-60°C) (Pn)	kW	21,8
Reduced heat output (80-60°C) (Pr)	kW	10,4
Useful efficiency at nominal input (80-60°C)	%	89,1
Useful efficiency at 30% (47°C return)	%	86,7
Heating circuit working pressure (min-max)	bar	0,5-3,0
CH temperature setting range	°C	35-78
CH maximum working temperature	°C	83
Heating expansion vessel capacity	l	6
DHW nominal heat input	kW	24,5
DHW minimum heat input	kW	12,0
DHW circuit working pressure (min-max)	bar	0,5-6,0
Specific DHW flow ΔT=30K	l/min	11,0
DHW temperature range	°C	35-57
DHW maximum working temperature	°C	62
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	3,72
Casing heat loss with burner off	%	0,71
Chimney heat loss with burner on at nominal heat input	%	7,17
Air-flue ΔT at nominal heat input	°C	92
Flue gas flow at nominal heat input	g/s	18,1
CO2 at nominal heat input of heating (Natural gas)	%	5,3
CO2 at nominal heat input of heating (Propane)	%	6,1
CO2 at nominal heat input of heating (Butane gas)	%	6,2
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	88
Circulation pump power input	W	84
Electric protection rating	IP	X4D
Flue gas discharge pipes diameter	mm	130

CONDENSING BOILERS > 35 KW - MODULES

HIGH OUTPUT BOILERS >35KW

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MODULES

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ITACA CH KR

WALL-HUNG CONDENSING BOILER CH ONLY
CASCADE INSTALLATION UP TO 900 KW



- **High modulation ratios, up to 1:10**
- **Integrated flue gas check valve**
- **Multilingual user's interface**
- **Possibility to connect up to 6 boilers in a cascade-type connection with Master-Slave logic**
- High-efficiency stainless steel heat exchanger
- Variable speed combustion fan
- Alarm output or LPG valve control, input for external probe, ambient thermostat, hot water storage tank probe, connection for solar pump, plant pump
- 0-10 V control on temperature or power
- Supplied as standard: split air/flue gas kit, paper template, wall installation kit, condensation drain trap, intake closing plugs

Available in the following models:

45 60 85 120 150

It is possible to connect up to 6 boilers in a cascade-type connection.
The cascade installation has to be composed by boilers of the same or very next size in the power range (for instance 45 – 60 kW, 60 – 85 kW, 85 – 120 kW, 120 – 150 kW)
We recommend to install cascade boilers of equal power

Model	Gas type	Code	Heat input	W x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
CH KR 45	NATURAL GAS	CITXX2KR45	40,0	500x834x510	71,0
	PROPANE	CITXX6KR45			
CH KR 60	NATURAL GAS	CITXX2KR60	60,0	500x834x510	75,5
	PROPANE	CITXX6KR60			
CH KR 85	NATURAL GAS	CITXX2KR85	81,0	500x834x510	100,0
	PROPANE	CITXX6KR85			
CH KR 120	NATURAL GAS	CITXX2KR1C	115,0	500x883x689	112,0
	PROPANE	CITXX6KR1C			
CH KR 150	NATURAL GAS	CITXX2KR1F	140,0	500x883x689	133,5
	PROPANE	CITXX6KR1F			

Packages ITACA CH KR					
Model	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Gas type	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
Package Code	**CIPXX2KR45**	**CIPXX2KR60**	**CIPXX2RR85**	**CIPXX2RR1C**	**CIPXX2RR1F**
Boiler	CITXX2KR45	CITXX2KR60	CITXX2KR85	CITXX2KR1C	CITXX2KR1F
Pump	0KCIRCOL00	0KCIRCOL00	0KCIRCOL05	0KCIRCOL07	0KCIRCOL07


mod. CH KR 45

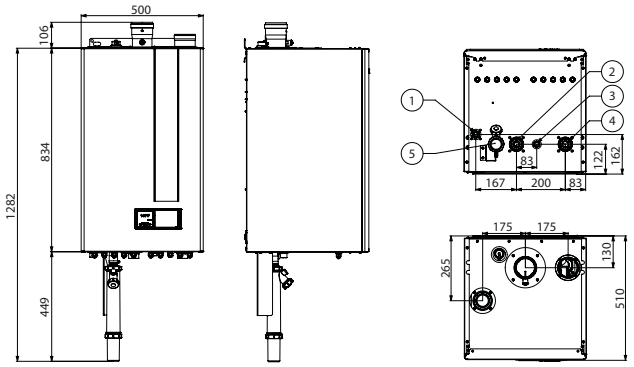

mod. CH KR 60


mod. CH KR 85


mod. CH KR 120


mod. CH KR 150

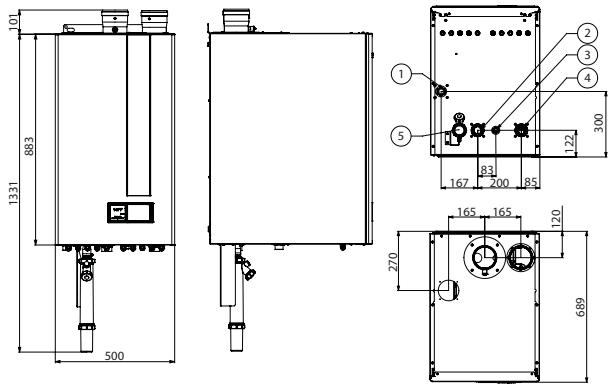
DIMENSIONS AND CONNECTION CENTRE DISTANCES



mod. CH KR 45 - 60 - 85

Those boilers must be installed with condensing flue gases ducts. The standard starting kit configuration is splitted 80 + 80. Flue gases coaxial 125/80 parts are available

1 Gas inlet (3/4")
2 Flow (1 1/4")
3 Safety relief valve drain (1/2")
4 Return (1 1/4")
5 Drain pipe



mod. CH KR 120 - 150

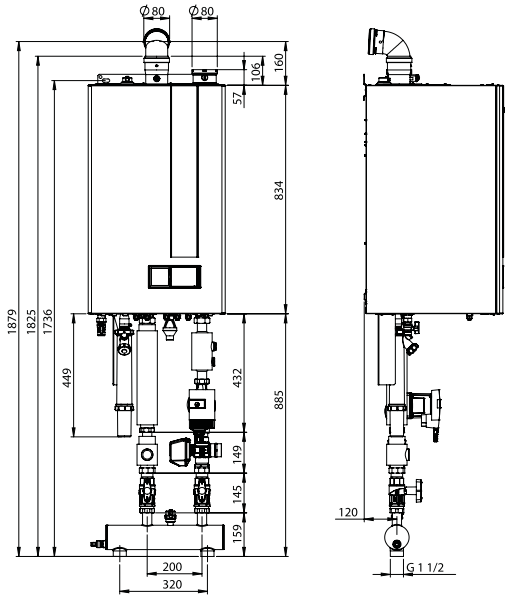
Those boilers must be installed with condensing flue gases ducts. The standard starting kit configuration is splitted 100 + 100. Flue gases coaxial 150/100 parts are available

1 Gas inlet (1")
2 Flow (1 1/4")
3 Safety relief valve drain (1/2")
4 Return (1 1/4")
5 Drain pipe

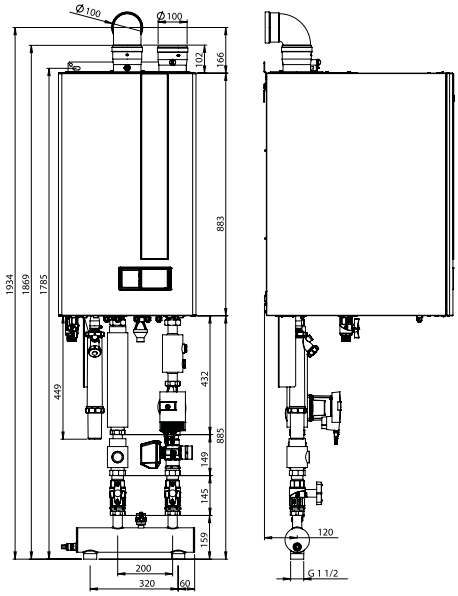
Technical data	um	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Nominal heat input (Qn)	kW	40,0	60,0	81,0	115,0	140,0
Nominal heat output (80-60°C) (Pn)	kW	38,5	58,3	78,5	112,0	136,3
Heat output (50-30°C)	kW	41,5	62,8	84,8	122,0	148,7
Reduced heat output (50-30°C)	kW	4,3	6,5	9,7	12,4	23,9
Useful efficiency at nominal input (80-60°C)	%	97,1	97,1	96,9	97,4	97,3
Useful efficiency at 30% (30°C return)	%	108,2	108,4	108,3	108,6	108,4
Safety valve calibration pressure	bar	3	3,5	5	5	5
CH temperature setting range	°C	20-80	20-80	20-80	20-80	20-80
NOx emission class	-	6	6	6	6	6
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	94	119	156	251	310
Electric protection rating	IP	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
Maximum CH system pressure (PMS)	bar	3,6	4,2	6	6	6
Water content	l	2,2	3,3	4,3	6,7	9,2

For other technical specifications, see from page 186

INSTALLING DIMENSIONS

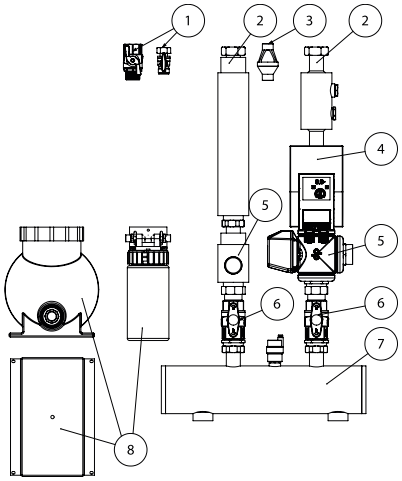


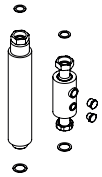
mod. CH KR 45 - 60 - 85

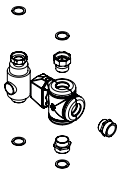
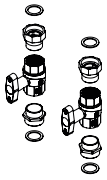
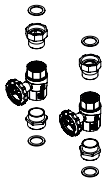
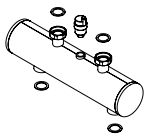
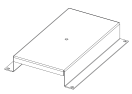
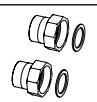


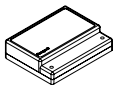
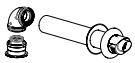
mod. CH KR 120 - 150

REF. HYDRAULIC KITS (OPTIONAL)

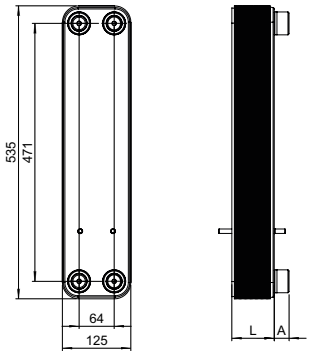
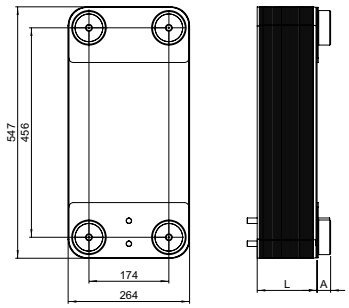


Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
1		Gas cock G ¾ kit	0KRUBGAS00	●	●	●		
		Gas cock G 1 kit	0KRUBGAS01				●	●
2		Hidraulic connection kit G 1 ¼ - G1 ½ the return flow connection is provided with connection for expansion vessel and for drain cock	0KCONIDR00	●	●	●	●	●
3		Drain funnel kit for G ½ F fitting safety valve (no INAIL)	0KIMBSCA00	●	●	●	●	●
4		Wilo PWM pump - 7.5 m centre distance 180 mm connections G 1 ½ M	0KCIRCOL00	●	●			

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
4		Insulation casing for 0KCIRCOL00 provided with velcro fastening	0KISOCIR00	●	●			
		Grundfos UPML PWM pump - 10.5 m - centre distance 180 mm connections G 1 ½ M	0KCIRCOL05			●		
		Grundfos UPMXL PWM pump - 12 m - centre distance 180 mm connections G 1 ½ M	0KCIRCOL07				●	●
		Grundfos Pump UPMXXL PWM – 12 m - centre distance 180 mm G 1 ½ M connections	0KCIRCOL08				●	●
5		3 way valve kit for dhw tank	0KTREVBO00	●	●	●	●	●
6		Hidraulic taps provided with fittings G 1 ½ and gaskets	0KRUBMAN00	●	●	●	●	●
		Hidraulic taps with termometer provided with fittings G 1 ½ and gaskets	0KRUBMAN01	●	●	●	●	●
		Insulation for main / return flow tap - shell equipped with Velcro	0KISORUB00	●	●	●	●	●
7		Hydraulic separator 3" , relief valve (1/2") and cap included Pump - hydraulic separator recommended coupling (see 0KCIRCOL05) PWM pump - 8 m Insulation included	0KSEPIDR00	●	●	●	●	●
8		Condensate neutralizer kit (Pmax 85 kw)	0FILNECO03	●	●	●		
		Condensate neutralizer kit (Pmax 350 kw)	0FILNECO01				●	●
		Support for neutralizer	0KBASFIL00				●	●
-		Reduction kit G1 1/2 - G1 1/4 under boiler	0KITRIDU00	●	●	●	●	●

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
		Paper Installation template	0DIMACAR29	●	●	●	●	●
		Remote control, ErP V class (118x85x32 mm)	0CREMOTO04	●	●	●	●	●
		hot water storage tank temperature probe 3m	0KITSOND00	●	●	●	●	●
		External probe	0KSONEST01	●	●	●	●	●
		Cascade controlling probe	0KSONDCO00	●	●	●	●	●
-		Heating zones management kit, 2 low-temperature zones and 1 high-temperature zone, with two probes included	0KGESTZO00	●	●	●	●	●
		Master slave connection kit 45-150 kW	0KITCASC00	●	●	●	●	●
		Master slave connection kit 45-150kw (back)	0KITCASC01	●	●	●	●	●
		Kit Modbus Itaca CH	0KMODBUS00	●	●	●	●	●
		Antifreeze kit for Itaca CH KR siphon (including insulation panels to be applied around the siphon)	0KANTIGE03	●	●	●	●	●
		Coaxial kit 80/125 for 45-60-85 kW **(items normally not available in stock, minimum availability time 8 weeks)**	0KITASCA02	●	●	●		

Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
	Coaxial flue gases starting kit 125/80	0ATTCOFL01	●	●	●		
	Coaxial flue gases starting kit 150/100	0ATTCOFL00				●	●

Models for systems up to 205 kW	Models for systems from 205 kW to 900 kW
	

Power levels	Code	No. of plates	Dimensions (mm)	Depth L (mm)	Connections	Connection height A (mm)	Pn (bar)	Tmax (°C)	Empty weight (kg)
UP TO 120 kW	0SCAMPIA40	30	535x125	79	1" ¼ M	27	16	200	8
UP TO 205 kW	0SCAMPIA41	70		170					16
UP TO 360 kW	0SCAMPIA42	50	547x264	128	2" ½ M				27
UP TO 540 kW	0SCAMPIA43	70		174					35
UP TO 690 kW	0SCAMPIA44	90		220					43
UP TO 900 kW	0SCAMPIA45	120		289					54

Power levels	Code	Heat exchange surface area (m^2)	Primary Tin-Tout (°C)	Secondary Tin-Tout (°C)	ΔP Primary (kPa)	ΔP Secondary (kPa)
UP TO 120 kW	0SCAMPIA40	1,85	80-60	50-70	18	17
UP TO 205 kW	0SCAMPIA41	4,49	80-60	50-70	19	19
UP TO 360 kW	0SCAMPIA42	6,58	80-60	50-70	11	11
UP TO 540 kW	0SCAMPIA43	9,32	80-60	50-70	14	14
UP TO 690 kW	0SCAMPIA44	12,06	80-60	50-70	16	16
UP TO 900 kW	0SCAMPIA45	16,17	80-60	50-70	20	19

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical data	um	Itaca	Itaca	Itaca	Itaca	Itaca
Model	-	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Type	-	C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11)	C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11)	C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11)	C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11)	C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11)
Nominal heat input (Qn)	kW	40,0	60,0	81,0	115,0	140,0
Reduced heat input (Qr)	kW	4,0	6,0	9,0	11,5	22,5
Nominal heat output (80-60°C) (Pn)	kW	38,5	58,3	78,5	112,0	136,3
Reduced heat output (80-60°C) (Pr)	kW	3,8	5,8	8,5	11,1	21,6
Heat output (50-30°C)	kW	41,5	62,8	84,8	122,0	148,7
Reduced heat output (50-30°C)	kW	4,3	6,5	9,7	12,4	23,9
Useful efficiency at nominal input (80-60°C)	%	97,1	97,1	96,9	97,4	97,3
Useful efficiency at nominal input (50-30°C)	%	105,3	104,6	104,8	106,1	106,2
Useful efficiency at 30% (30°C return)	%	108,2	108,4	108,3	108,6	108,4
CH temperature setting range	°C	20-80	20-80	20-80	20-80	20-80
CH maximum working temperature	°C	83	83	83	83	83
NOx emission class	-	6	6	6	6	6
Casing heat loss with burner on at nominal heat input	%	0,15	0,25	1,12	0,6	0,76
Casing heat loss with burner off	%	0,21	0,17	0,141	0,084	0,09
Chimney heat loss with burner on at nominal heat input	%	2,80	2,65	2,8	2,59	2,34
Air-flue ΔT at nominal heat input	°C	57	57	45,3	54	52,6
Flue gas flow at nominal heat input	g/s	18,98	27,25	37,2	52,7	64,2
CO2 at nominal heat input of heating (Natural gas)	%	9,2	9,1	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10,3	10,3	10	10,2	10,2
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	94	119	156	251	310
Electric protection rating	IP	IPX4D	IPX4D	IPX4D	IPX4D	IPX4D
Air intake/flue gas vent pipe diameter	mm	80+80 80/125	80+80 80/125	80+80 80/125	100+100 100/150	100+100 100/150
Water content	l	2,2	3,3	4,3	6,7	9,2

ITACA CH KR MODULE FOR INDOOR INSTALLATION

MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING



- **Multilingual user's interface**
- **High-efficiency stainless steel heat exchanger**
- **High modulation ratios: for single module up to 1:10; for modular generator up to 1:70**
- **Integrated cascade management system**
- **Possibility to connect up to 6 boilers in a cascade-type connection**
- **Integrated flue gas check valve**
- Indoor installations on supporting structure
- Under-boiler hydraulic unit to be installed with water (insulated) and gas collectors, high-efficiency circulation pump, water and gas connecting ramps
- Two-way shut-off taps on flow and return
- Alarm output or LPG valve control, input for external probe, ambient thermostat, hot water storage tank probe, connection for solar pump, plant pump
- 0-10 V control on temperature or power
- Cascade management with Master Slave system from boiler control panel
- Supplied with flue gas collector if the module consists of at least 2 boilers
- Available in the following versions: with direct collectors; with hydraulic separator; with plate exchanger
- Class 6 of NOx emissions

Available in the following models:

from 45 to 900

WARNING

The modular heat generators on supporting frame described in this section of the catalogue must be exclusively installed indoors. The outdoor installation is not included

The modular generator is offered in the following configurations

Configuration with modular generator	
Direct collectors	Modular generator connected to the primary circuit without separating device in the hydraulic circuit (*)
With hydraulic separator	Modular generator with connection to the primary circuit, provided with hydraulic separator for the separation of the primary and secondary circuit
With plate exchanger	Modular generator with connection to the primary circuit, provided with plate exchanger for the separation of the primary and secondary circuit

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)

Direct collector configuration (*)					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 45	NATURAL GAS	CIQXX2SD45	40,0	41,5	1 (1 x 45)
WALL MODULE 60	NATURAL GAS	CIQXX2SD60	60,0	62,8	1 (1 x 60)
WALL MODULE 85	NATURAL GAS	CIQXX2SD85	81,0	84,8	1 (1 x 85)
WALL MODULE 90 (**)	NATURAL GAS	CIQXX2SD90	80,0	83,0	2 (2 x 45)
WALL MODULE 105 (**)	NATURAL GAS	CIQXX2SDA1	100,0	104,3	2 (1 x 60 + 1 x 45)
WALL MODULE 120	NATURAL GAS	CIQXX2SD1C	115,0	122,0	1 (1 x 120)
WALL MODULE 150	NATURAL GAS	CIQXX2SD1F	140,0	148,7	1 (1 x 150)
WALL MODULE 170	NATURAL GAS	CIQXX2SD1H	162,0	169,6	2 (2 x 85)
WALL MODULE 205	NATURAL GAS	CIQXX2SDA2	196,0	206,8	2 (1 x 85 + 1 x 120)
WALL MODULE 240	NATURAL GAS	CIQXX2SD2E	230,0	244,0	2 (2 x 120)
WALL MODULE 270	NATURAL GAS	CIQXX2SD2H	255,0	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIQXX2SD3A	280,0	297,4	2 (2 x 150)
WALL MODULE 325	NATURAL GAS	CIQXX2SDC3	311,0	328,8	3 (1x 85 + 2 x 120)
WALL MODULE 360	NATURAL GAS	CIQXX2SD3G	345,0	366,0	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIQXX2SD3J	370,0	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 420	NATURAL GAS	CIQXX2SD4C	395,0	419,4	3 (1 x 120 + 2 x 150)
WALL MODULE 450	NATURAL GAS	CIQXX2SD4F	420,0	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIQXX2SD4I	460,0	488,0	4 (4 x 120)
WALL MODULE 510	NATURAL GAS	CIQXX2SD5B	485,0	514,7	4 (3 x 120 + 1 x 150)
WALL MODULE 540	NATURAL GAS	CIQXX2SD5E	510,0	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 570	NATURAL GAS	CIQXX2SD5H	535,0	568,1	4 (1 x120 + 3 x 150)
WALL MODULE 600	NATURAL GAS	CIQXX2SD6A	560,0	594,8	4 (4 x 150)
WALL MODULE 630	NATURAL GAS	CIQXX2SD6D	600,0	636,7	5 (4 x 120 + 1 x 150)
WALL MODULE 660	NATURAL GAS	CIQXX2SD6G	625,0	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 690	NATURAL GAS	CIQXX2SD6J	650,0	690,1	5 (2 x 120 + 3 x 150)
WALL MODULE 720	NATURAL GAS	CIQXX2SD7C	675,0	716,8	5 (1 x 120 + 4 x 150)
WALL MODULE 750	NATURAL GAS	CIQXX2SD7F	700,0	743,5	5 (5 x 150)
WALL MODULE 780	NATURAL GAS	CIQXX2SD7I	740,0	785,4	6 (4 x 120 + 2 x 150)
WALL MODULE 810	NATURAL GAS	CIQXX2SD8B	765,0	812,1	6 (3x120 + 3 x 150)
WALL MODULE 870	NATURAL GAS	CIQXX2SD8H	815,0	865,5	6 (1 x 120 + 5 x 150)
WALL MODULE 900	NATURAL GAS	CIQXX2SD9A	840,0	892,2	6 (6 x 150)

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)
(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

Configuration with hydraulic separator					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 45	NATURAL GAS	CIQXX2SA45	40,0	41,5	1 (1 x 45)
WALL MODULE 60	NATURAL GAS	CIQXX2SA60	60,0	62,8	1 (1 x 60)
WALL MODULE 85	NATURAL GAS	CIQXX2SA85	81,0	84,8	1 (1 x 85)
WALL MODULE 90 (**)	NATURAL GAS	CIQXX2SA90	80,0	83,0	2 (2 x 45)
WALL MODULE 105 (**)	NATURAL GAS	CIQXX2SAA1	100,0	104,3	2 (1 x 60 + 1 x 45)
WALL MODULE 120	NATURAL GAS	CIQXX2SA1C	115,0	122,0	1 (1 x 120)
WALL MODULE 150	NATURAL GAS	CIQXX2SA1F	140,0	148,7	1 (1 x 150)
WALL MODULE 170	NATURAL GAS	CIQXX2SA1H	162,0	169,6	2 (2 x 85)
WALL MODULE 205	NATURAL GAS	CIQXX2SAA2	196,0	206,8	2 (1 x 85 + 1 x 120)
WALL MODULE 240	NATURAL GAS	CIQXX2SA2E	230,0	244,0	2 (2 x 120)
WALL MODULE 270	NATURAL GAS	CIQXX2SA2H	255,0	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIQXX2SA3A	280,0	297,4	2 (2 x 150)
WALL MODULE 325	NATURAL GAS	CIQXX2SAC3	311,0	328,8	3 (1x 85 + 2 x 120)
WALL MODULE 360	NATURAL GAS	CIQXX2SA3G	345,0	366,0	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIQXX2SA3J	370,0	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 420	NATURAL GAS	CIQXX2SA4C	395,0	419,4	3 (1 x 120 + 2 x 150)
WALL MODULE 450	NATURAL GAS	CIQXX2SA4F	420,0	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIQXX2SA4I	460,0	488,0	4 (4 x 120)
WALL MODULE 510	NATURAL GAS	CIQXX2SA5B	485,0	514,7	4 (3 x 120 + 1 x 150)
WALL MODULE 540	NATURAL GAS	CIQXX2SA5E	510,0	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 570	NATURAL GAS	CIQXX2SA5H	535,0	568,1	4 (1 x120 + 3 x 150)
WALL MODULE 600	NATURAL GAS	CIQXX2SA6A	560,0	594,8	4 (4 x 150)
WALL MODULE 630	NATURAL GAS	CIQXX2SA6D	600,0	636,7	5 (4 x 120 + 1 x 150)
WALL MODULE 660	NATURAL GAS	CIQXX2SA6G	625,0	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 690	NATURAL GAS	CIQXX2SA6J	650,0	690,1	5 (2 x 120 + 3 x 150)
WALL MODULE 720	NATURAL GAS	CIQXX2SA7C	675,0	716,8	5 (1 x 120 + 4 x 150)
WALL MODULE 750	NATURAL GAS	CIQXX2SA7F	700,0	743,5	5 (5 x 150)
WALL MODULE 780	NATURAL GAS	CIQXX2SA7I	740,0	785,4	6 (4 x 120 + 2 x 150)
WALL MODULE 810	NATURAL GAS	CIQXX2SA8B	765,0	812,1	6 (3x120 + 3 x 150)
WALL MODULE 870	NATURAL GAS	CIQXX2SA8H	815,0	865,5	6 (1 x 120 + 5 x 150)
WALL MODULE 900	NATURAL GAS	CIQXX2SA9A	840,0	892,2	6 (6 x 150)

(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

Configuration with plate exchanger (*)					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 45	NATURAL GAS	CIQXX2SB45	40,0	41,5	1 (1 x 45)
WALL MODULE 60	NATURAL GAS	CIQXX2SB60	60,0	62,8	1 (1 x 60)
WALL MODULE 85	NATURAL GAS	CIQXX2SB85	81,0	84,8	1 (1 x 85)
WALL MODULE 90 (**)	NATURAL GAS	CIQXX2SB90	80,0	83,0	2 (2 x 45)
WALL MODULE 105 (**)	NATURAL GAS	CIQXX2SBA1	100,0	104,3	2 (1 x 60 + 1 x 45)
WALL MODULE 120	NATURAL GAS	CIQXX2SB1C	115,0	122,0	1 (1 x 120)
WALL MODULE 150	NATURAL GAS	CIQXX2SB1F	140,0	148,7	1 (1 x 150)
WALL MODULE 170	NATURAL GAS	CIQXX2SB1H	162,0	169,6	2 (2 x 85)
WALL MODULE 205	NATURAL GAS	CIQXX2SBA2	196,0	206,8	2 (1 x 85 + 1 x 120)
WALL MODULE 240	NATURAL GAS	CIQXX2SB2E	230,0	244,0	2 (2 x 120)
WALL MODULE 270	NATURAL GAS	CIQXX2SB2H	255,0	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIQXX2SB3A	280,0	297,4	2 (2 x 150)
WALL MODULE 325	NATURAL GAS	CIQXX2SBC3	311,0	328,8	3 (1x 85 + 2 x 120)
WALL MODULE 360	NATURAL GAS	CIQXX2SB3G	345,0	366,0	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIQXX2SB3J	370,0	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 420	NATURAL GAS	CIQXX2SB4C	395,0	419,4	3 (1 x 120 + 2 x 150)
WALL MODULE 450	NATURAL GAS	CIQXX2SB4F	420,0	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIQXX2SB4I	460,0	488,0	4 (4 x 120)
WALL MODULE 510	NATURAL GAS	CIQXX2SB5B	485,0	514,7	4 (3 x 120 + 1 x 150)
WALL MODULE 540	NATURAL GAS	CIQXX2SB5E	510,0	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 570	NATURAL GAS	CIQXX2SB5H	535,0	568,1	4 (1 x120 + 3 x 150)
WALL MODULE 600	NATURAL GAS	CIQXX2SB6A	560,0	594,8	4 (4 x 150)
WALL MODULE 630	NATURAL GAS	CIQXX2SB6D	600,0	636,7	5 (4 x 120 + 1 x 150)
WALL MODULE 660	NATURAL GAS	CIQXX2SB6G	625,0	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 690	NATURAL GAS	CIQXX2SB6J	650,0	690,1	5 (2 x 120 + 3 x 150)
WALL MODULE 720	NATURAL GAS	CIQXX2SB7C	675,0	716,8	5 (1 x 120 + 4 x 150)
WALL MODULE 750	NATURAL GAS	CIQXX2SB7F	700,0	743,5	5 (5 x 150)
WALL MODULE 780	NATURAL GAS	CIQXX2SB7I	740,0	785,4	6 (4 x 120 + 2 x 150)
WALL MODULE 810	NATURAL GAS	CIQXX2SB8B	765,0	812,1	6 (3x120 + 3 x 150)
WALL MODULE 870	NATURAL GAS	CIQXX2SB8H	815,0	865,5	6 (1 x 120 + 5 x 150)
WALL MODULE 900	NATURAL GAS	CIQXX2SB9A	840,0	892,2	6 (6 x 150)

(*) the collectors to connect the secondary circuit of the plate exchanger to the system downstream the cascade are excluded from the article code
(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

ITACA CH KR MODULE BACK ON BACK

MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING



- **Multilingual user's interface**
- **High-efficiency stainless steel heat exchanger**
- **CH water flow rate double electronic control**
- **High modulation ratios: for single module up to 1:10; for modular generator up to 1:70**
- **Integrated cascade management system**
- **Possibility to combine up to 6 modules (3 in line at the front + 3 in line at the back)**
- **Integrated flue gas check valve**
- Indoor installations on supporting structure
- Under-boiler hydraulic unit to be installed with water (insulated) and gas collectors, high-efficiency circulation pump, water and gas connecting ramps
- Under-boiler hydraulic unit on back side complete with water (with insulation) and gas connection ramps, 2-way flow and return taps, non-return valve, high-efficiency circulation pump
- Two-way shut-off taps on flow and return
- Alarm output or LPG valve control, input for external probe, ambient thermostat, hot water storage tank probe, connection for solar pump, plant pump
- 0-10 V control on temperature or power
- Available in the following versions: with direct collectors; with hydraulic separator; with plate exchanger
- Class 6 of NOx emissions

Available in the following models:

from 90 to 900

WARNING

The modular heat generators on supporting frame described in this section of the catalogue must be exclusively installed indoors.The outdoor installation is not included

The modular generator is offered in the following configurations

Configuration with modular generator	
Direct collectors	Modular generator connected to the primary circuit without separating device in the hydraulic circuit (*)
With hydraulic separator	Modular generator with connection to the primary circuit, provided with hydraulic separator for the separation of the primary and secondary circuit
With plate exchanger	Modular generator with connection to the primary circuit, provided with plate exchanger for the separation of the primary and secondary circuit

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)

Direct collector configuration (*)					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 90	NATURAL GAS	CIRXX2SD90	80	83	2 (2 x 45)
WALL MODULE 120	NATURAL GAS	CIRXX2SD1C	120	125,6	2 (2 x 60)
WALL MODULE 145	NATURAL GAS	CIRXX2SDE1	141	147,6	2 (1 x 60 + 1 x 85)
WALL MODULE 170	NATURAL GAS	CIRXX2SD1H	162	169,6	2 (2 x 85)
WALL MODULE 180	NATURAL GAS	CIRXX2SD1I	180	188,4	3 (3 x 60)
WALL MODULE 205	NATURAL GAS	CIRXX2SDA2	201	210,4	3 (2 x 60 + 1 x 85)
WALL MODULE 240	NATURAL GAS	CIRXX2SD2E	230	244	2 (2 x 120)
WALL MODULE 255	NATURAL GAS	CIRXX2SDF2	243	254,4	3 (3 x 85)
WALL MODULE 270	NATURAL GAS	CIRXX2SD2H	255	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIRXX2SD3A	280	297,4	2 (2 x 150)
WALL MODULE 360	NATURAL GAS	CIRXX2SD3G	345	366	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIRXX2SD3J	370	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 450	NATURAL GAS	CIRXX2SD4F	420	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIRXX2SD4I	460	488	4 (4 x 120)
WALL MODULE 540	NATURAL GAS	CIRXX2SD5E	510	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 600	NATURAL GAS	CIRXX2SD6A	560	594,8	4 (4 x 150)
WALL MODULE 660	NATURAL GAS	CIRXX2SD6G	625	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 750	NATURAL GAS	CIRXX2SD7F	700	743,5	5 (5 x 150)
WALL MODULE 810	NATURAL GAS	CIRXX2SD8B	765	812,1	6 (3 x 120 + 3 x 150)
WALL MODULE 900	NATURAL GAS	CIRXX2SD9A	840	892,2	6 (6 x 150)

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)

Configuration with hydraulic separator					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 90	NATURAL GAS	CIRXX2SA90	80	83	2 (2 x 45)
WALL MODULE 120	NATURAL GAS	CIRXX2SA1C	120	125,6	2 (2 x 60)
WALL MODULE 145	NATURAL GAS	CIRXX2SAE1	141	147,6	2 (1 x 60 + 1 x 85)
WALL MODULE 170	NATURAL GAS	CIRXX2SA1H	162	169,6	2 (2 x 85)
WALL MODULE 180	NATURAL GAS	CIRXX2SA1I	180	188,4	3 (3 x 60)
WALL MODULE 205	NATURAL GAS	CIRXX2SAA2	201	210,4	3 (2 x 60 + 1 x 85)
WALL MODULE 240	NATURAL GAS	CIRXX2SA2E	230	244	2 (2 x 120)
WALL MODULE 255	NATURAL GAS	CIRXX2SAF2	243	254,4	3 (3 x 85)
WALL MODULE 270	NATURAL GAS	CIRXX2SA2H	255	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIRXX2SA3A	280	297,4	2 (2 x 150)
WALL MODULE 360	NATURAL GAS	CIRXX2SA3G	345	366	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIRXX2SA3J	370	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 450	NATURAL GAS	CIRXX2SA4F	420	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIRXX2SA4I	460	488	4 (4 x 120)
WALL MODULE 540	NATURAL GAS	CIRXX2SA5E	510	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 600	NATURAL GAS	CIRXX2SA6A	560	594,8	4 (4 x 150)
WALL MODULE 660	NATURAL GAS	CIRXX2SA6G	625	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 750	NATURAL GAS	CIRXX2SA7F	700	743,5	5 (5 x 150)
WALL MODULE 810	NATURAL GAS	CIRXX2SA8B	765	812,1	6 (3 x 120 + 3 x 150)
WALL MODULE 900	NATURAL GAS	CIRXX2SA9A	840	892,2	6 (6 x 150)

Configuration with plate exchanger (*)					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
WALL MODULE 90	NATURAL GAS	CIRXX2SB90	80	83	2 (2 x 45)
WALL MODULE 120	NATURAL GAS	CIRXX2SB1C	120	125,6	2 (2 x 60)
WALL MODULE 145	NATURAL GAS	CIRXX2SBE1	141	147,6	2 (1 x 60 + 1 x 85)
WALL MODULE 170	NATURAL GAS	CIRXX2SB1H	162	169,6	2 (2 x 85)
WALL MODULE 180	NATURAL GAS	CIRXX2SB1I	180	188,4	3 (3 x 60)
WALL MODULE 205	NATURAL GAS	CIRXX2SBA2	201	210,4	3 (2 x 60 + 1 x 85)
WALL MODULE 240	NATURAL GAS	CIRXX2SB2E	230	244	2 (2 x 120)
WALL MODULE 255	NATURAL GAS	CIRXX2SBF2	243	254,4	3 (3 x 85)
WALL MODULE 270	NATURAL GAS	CIRXX2SB2H	255	270,7	2 (1 x 120 + 1 x 150)
WALL MODULE 300	NATURAL GAS	CIRXX2SB3A	280	297,4	2 (2 x 150)
WALL MODULE 360	NATURAL GAS	CIRXX2SB3G	345	366	3 (3 x 120)
WALL MODULE 390	NATURAL GAS	CIRXX2SB3J	370	392,7	3 (2 x 120 + 1 x 150)
WALL MODULE 450	NATURAL GAS	CIRXX2SB4F	420	446,1	3 (3 x 150)
WALL MODULE 480	NATURAL GAS	CIRXX2SB4I	460	488	4 (4 x 120)
WALL MODULE 540	NATURAL GAS	CIRXX2SB5E	510	541,4	4 (2 x 120 + 2 x 150)
WALL MODULE 600	NATURAL GAS	CIRXX2SB6A	560	594,8	4 (4 x 150)
WALL MODULE 660	NATURAL GAS	CIRXX2SB6G	625	663,4	5 (3 x 120 + 2 x 150)
WALL MODULE 750	NATURAL GAS	CIRXX2SB7F	700	743,5	5 (5 x 150)
WALL MODULE 810	NATURAL GAS	CIRXX2SB8B	765	812,1	6 (3 x 120 + 3 x 150)
WALL MODULE 900	NATURAL GAS	CIRXX2SB9A	840	892,2	6 (6 x 150)

(*) the collectors to connect the secondary circuit of the plate exchanger to the system downstream the cascade are excluded from the article code

ITACA CH KR CABINET MODULE

MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING



- **Polyester powder coated steel cabinet for outdoor installation**
- **Multilingual user's interface**
- **High-efficiency stainless steel heat exchanger**
- **CH water flow rate double electronic control**
- **High modulation ratios: for single module up to 1:10; for modular generator up to 1:70**
- **Integrated cascade management system**
- **Possibility to connect up to 6 boilers in a cascade-type connection**
- **Integrated flue gas check valve**
- Under-boiler hydraulic unit to be installed with water (insulated) and gas collectors, high-efficiency circulation pump, water and gas connecting ramps, expansion vessel
- Two-way shut-off taps on flow and return
- Alarm output or LPG valve control, input for external probe, ambient thermostat, hot water storage tank probe, connection for solar pump, plant pump
- 0-10 V control on temperature or power
- Cascade management with Master Slave system from boiler control panel
- Available in the following versions: with direct collectors; with hydraulic separator; with plate exchanger

Available in the following models:

from 45 to 900

The modular generator is offered in the following configurations

Configuration with modular generator	
Direct collectors	Modular generator connected to the primary circuit without separating device in the hydraulic circuit (*)
With hydraulic separator	Modular generator with connection to the primary circuit, provided with hydraulic separator for the separation of the primary and secondary circuit
With plate exchanger	Modular generator with connection to the primary circuit, provided with plate exchanger for the separation of the primary and secondary circuit

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)

For more information visit our website www.fondital.com and download the Catalogue "Itaca CH KR Modules".

Direct collector configuration (*)					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
CABINET MODULE 45	NATURAL GAS	CIQXX2SO45	40,0	41,5	1 (1 x 45)
CABINET MODULE 60	NATURAL GAS	CIQXX2SO60	60,0	62,8	1 (1 x 60)
CABINET MODULE 85	NATURAL GAS	CIQXX2SO85	81,0	84,8	1 (1 x 85)
CABINET MODULE 90 (**)	NATURAL GAS	CIQXX2SO90	80,0	83,0	2 (2 x 45)
CABINET MODULE 105 (**)	NATURAL GAS	CIQXX2SOA1	100,0	104,3	2 (1 x 60 + 1 x 45)
CABINET MODULE 120	NATURAL GAS	CIQXX2SO1C	115,0	122,0	1 (1 x 120)
CABINET MODULE 150	NATURAL GAS	CIQXX2SO1F	140,0	148,7	1 (1 x 150)
CABINET MODULE 170	NATURAL GAS	CIQXX2SO1H	162,0	169,6	2 (2 x 85)
CABINET MODULE 205	NATURAL GAS	CIQXX2SOA2	196,0	206,8	2 (1 x 85 + 1 x 120)
CABINET MODULE 240	NATURAL GAS	CIQXX2SO2E	230,0	244,0	2 (2 x 120)
CABINET MODULE 270	NATURAL GAS	CIQXX2SO2H	255,0	270,7	2 (1 x 120 + 1 x 150)
CABINET MODULE 300	NATURAL GAS	CIQXX2SO3A	280,0	297,4	2 (2 x 150)
CABINET MODULE 325	NATURAL GAS	CIQXX2SOC3	311,0	328,8	3 (1x 85 + 2 x 120)
CABINET MODULE 360	NATURAL GAS	CIQXX2SO3G	345,0	366,0	3 (3 x 120)
CABINET MODULE 390	NATURAL GAS	CIQXX2SO3J	370,0	392,7	3 (2 x 120 + 1 x 150)
CABINET MODULE 420	NATURAL GAS	CIQXX2SO4C	395,0	419,4	3 (1 x 120 + 2 x 150)
CABINET MODULE 450	NATURAL GAS	CIQXX2SO4F	420,0	446,1	3 (3 x 150)
CABINET MODULE 480	NATURAL GAS	CIQXX2SO4I	460,0	488,0	4 (4 x 120)
CABINET MODULE 510	NATURAL GAS	CIQXX2SO5B	485,0	514,7	4 (3 x 120 + 1 x 150)
CABINET MODULE 540	NATURAL GAS	CIQXX2SO5E	510,0	541,4	4 (2 x 120 + 2 x 150)
CABINET MODULE 570	NATURAL GAS	CIQXX2SO5H	535,0	568,1	4 (1 x120 + 3 x 150)
CABINET MODULE 600	NATURAL GAS	CIQXX2SO6A	560,0	594,8	4 (4 x 150)
CABINET MODULE 630	NATURAL GAS	CIQXX2SO6D	600,0	636,7	5 (4 x 120 + 1 x 150)
CABINET MODULE 660	NATURAL GAS	CIQXX2SO6G	625,0	663,4	5 (3 x 120 + 2 x 150)
CABINET MODULE 690	NATURAL GAS	CIQXX2SO6J	650,0	690,1	5 (2 x 120 + 3 x 150)
CABINET MODULE 720	NATURAL GAS	CIQXX2SO7C	675,0	716,8	5 (1 x 120 + 4 x 150)
CABINET MODULE 750	NATURAL GAS	CIQXX2SO7F	700,0	743,5	5 (5 x 150)
CABINET MODULE 780	NATURAL GAS	CIQXX2SO7I	740,0	785,4	6 (4 x 120 + 2 x 150)
CABINET MODULE 810	NATURAL GAS	CIQXX2SO8B	765,0	812,1	6 (3x120 + 3 x 150)
CABINET MODULE 870	NATURAL GAS	CIQXX2SO8H	815,0	865,5	6 (1 x 120 + 5 x 150)
CABINET MODULE 900	NATURAL GAS	CIQXX2SO9A	840,0	892,2	6 (6 x 150)

(*) It is mandatory to combine a hydraulic separator or a plate exchanger to separate the primairy circuit (cascade side) from the secondary circuit (plant side)
(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

Configuration with hydraulic separator on the left					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
CABINET MODULE 45	NATURAL GAS	CIQXX2SK45	40,0	41,5	1 (1 x 45)
CABINET MODULE 60	NATURAL GAS	CIQXX2SK60	60,0	62,8	1 (1 x 60)
CABINET MODULE 85	NATURAL GAS	CIQXX2SK85	81,0	84,8	1 (1 x 85)
CABINET MODULE 90 (**)	NATURAL GAS	CIQXX2SK90	80,0	83,0	2 (2 x 45)
CABINET MODULE 105 (**)	NATURAL GAS	CIQXX2SKA1	100,0	104,3	2 (1 x 60 + 1 x 45)
CABINET MODULE 120	NATURAL GAS	CIQXX2SK1C	115,0	122,0	1 (1 x 120)
CABINET MODULE 150	NATURAL GAS	CIQXX2SK1F	140,0	148,7	1 (1 x 150)
CABINET MODULE 170	NATURAL GAS	CIQXX2SK1H	162,0	169,6	2 (2 x 85)
CABINET MODULE 205	NATURAL GAS	CIQXX2SKA2	196,0	206,8	2 (1 x 85 + 1 x 120)
CABINET MODULE 240	NATURAL GAS	CIQXX2SK2E	230,0	244,0	2 (2 x 120)
CABINET MODULE 270	NATURAL GAS	CIQXX2SK2H	255,0	270,7	2 (1 x 120 + 1 x 150)
CABINET MODULE 300	NATURAL GAS	CIQXX2SK3A	280,0	297,4	2 (2 x 150)
CABINET MODULE 325	NATURAL GAS	CIQXX2SKC3	311,0	328,8	3 (1x 85 + 2 x 120)
CABINET MODULE 360	NATURAL GAS	CIQXX2SK3G	345,0	366,0	3 (3 x 120)
CABINET MODULE 390	NATURAL GAS	CIQXX2SK3J	370,0	392,7	3 (2 x 120 + 1 x 150)
CABINET MODULE 420	NATURAL GAS	CIQXX2SK4C	395,0	419,4	3 (1 x 120 + 2 x 150)
CABINET MODULE 450	NATURAL GAS	CIQXX2SK4F	420,0	446,1	3 (3 x 150)
CABINET MODULE 480	NATURAL GAS	CIQXX2SK4I	460,0	488,0	4 (4 x 120)
CABINET MODULE 510	NATURAL GAS	CIQXX2SK5B	485,0	514,7	4 (3 x 120 + 1 x 150)
CABINET MODULE 540	NATURAL GAS	CIQXX2SK5E	510,0	541,4	4 (2 x 120 + 2 x 150)
CABINET MODULE 570	NATURAL GAS	CIQXX2SK5H	535,0	568,1	4 (1 x120 + 3 x 150)
CABINET MODULE 600	NATURAL GAS	CIQXX2SK6A	560,0	594,8	4 (4 x 150)
CABINET MODULE 630	NATURAL GAS	CIQXX2SK6D	600,0	636,7	5 (4 x 120 + 1 x 150)
CABINET MODULE 660	NATURAL GAS	CIQXX2SK6G	625,0	663,4	5 (3 x 120 + 2 x 150)
CABINET MODULE 690	NATURAL GAS	CIQXX2SK6J	650,0	690,1	5 (2 x 120 + 3 x 150)
CABINET MODULE 720	NATURAL GAS	CIQXX2SK7C	675,0	716,8	5 (1 x 120 + 4 x 150)
CABINET MODULE 750	NATURAL GAS	CIQXX2SK7F	700,0	743,5	5 (5 x 150)
CABINET MODULE 780	NATURAL GAS	CIQXX2SK7I	740,0	785,4	6 (4 x 120 + 2 x 150)
CABINET MODULE 810	NATURAL GAS	CIQXX2SK8B	765,0	812,1	6 (3x120 + 3 x 150)
CABINET MODULE 870	NATURAL GAS	CIQXX2SK8H	815,0	865,5	6 (1 x 120 + 5 x 150)
CABINET MODULE 900	NATURAL GAS	CIQXX2SK9A	840,0	892,2	6 (6 x 150)

Configuration with hydraulic separator on the right					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
CABINET MODULE 45	NATURAL GAS	CIQXX2SL45	40,0	41,5	1 (1 x 45)
CABINET MODULE 60	NATURAL GAS	CIQXX2SL60	60,0	62,8	1 (1 x 60)
CABINET MODULE 85	NATURAL GAS	CIQXX2SL85	81,0	84,8	1 (1 x 85)
CABINET MODULE 90 (**)	NATURAL GAS	CIQXX2SL90	80,0	83,0	2 (2 x 45)
CABINET MODULE 105 (**)	NATURAL GAS	CIQXX2SLA1	100,0	104,3	2 (1 x 60 + 1 x 45)
CABINET MODULE 120	NATURAL GAS	CIQXX2SL1C	115,0	122,0	1 (1 x 120)
CABINET MODULE 150	NATURAL GAS	CIQXX2SL1F	140,0	148,7	1 (1 x 150)
CABINET MODULE 170	NATURAL GAS	CIQXX2SL1H	162,0	169,6	2 (2 x 85)
CABINET MODULE 205	NATURAL GAS	CIQXX2SLA2	196,0	206,8	2 (1 x 85 + 1 x 120)
CABINET MODULE 240	NATURAL GAS	CIQXX2SL2E	230,0	244,0	2 (2 x 120)
CABINET MODULE 270	NATURAL GAS	CIQXX2SL2H	255,0	270,7	2 (1 x 120 + 1 x 150)
CABINET MODULE 300	NATURAL GAS	CIQXX2SL3A	280,0	297,4	2 (2 x 150)
CABINET MODULE 325	NATURAL GAS	CIQXX2SLC3	311,0	328,8	3 (1x 85 + 2 x 120)
CABINET MODULE 360	NATURAL GAS	CIQXX2SL3G	345,0	366,0	3 (3 x 120)
CABINET MODULE 390	NATURAL GAS	CIQXX2SL3J	370,0	392,7	3 (2 x 120 + 1 x 150)
CABINET MODULE 420	NATURAL GAS	CIQXX2SL4C	395,0	419,4	3 (1 x 120 + 2 x 150)
CABINET MODULE 450	NATURAL GAS	CIQXX2SL4F	420,0	446,1	3 (3 x 150)
CABINET MODULE 480	NATURAL GAS	CIQXX2SL4I	460,0	488,0	4 (4 x 120)
CABINET MODULE 510	NATURAL GAS	CIQXX2SL5B	485,0	514,7	4 (3 x 120 + 1 x 150)
CABINET MODULE 540	NATURAL GAS	CIQXX2SL5E	510,0	541,4	4 (2 x 120 + 2 x 150)
CABINET MODULE 570	NATURAL GAS	CIQXX2SL5H	535,0	568,1	4 (1 x120 + 3 x 150)
CABINET MODULE 600	NATURAL GAS	CIQXX2SL6A	560,0	594,8	4 (4 x 150)
CABINET MODULE 630	NATURAL GAS	CIQXX2SL6D	600,0	636,7	5 (4 x 120 + 1 x 150)
CABINET MODULE 660	NATURAL GAS	CIQXX2SL6G	625,0	663,4	5 (3 x 120 + 2 x 150)
CABINET MODULE 690	NATURAL GAS	CIQXX2SL6J	650,0	690,1	5 (2 x 120 + 3 x 150)
CABINET MODULE 720	NATURAL GAS	CIQXX2SL7C	675,0	716,8	5 (1 x 120 + 4 x 150)
CABINET MODULE 750	NATURAL GAS	CIQXX2SL7F	700,0	743,5	5 (5 x 150)
CABINET MODULE 780	NATURAL GAS	CIQXX2SL7I	740,0	785,4	6 (4 x 120 + 2 x 150)
CABINET MODULE 810	NATURAL GAS	CIQXX2SL8B	765,0	812,1	6 (3x120 + 3 x 150)
CABINET MODULE 870	NATURAL GAS	CIQXX2SL8H	815,0	865,5	6 (1 x 120 + 5 x 150)
CABINET MODULE 900	NATURAL GAS	CIQXX2SL9A	840,0	892,2	6 (6 x 150)

(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

Configuration with plate exchanger on the left					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
CABINET MODULE 45	NATURAL GAS	CIQXX2SM45	40,0	41,5	1 (1 x 45)
CABINET MODULE 60	NATURAL GAS	CIQXX2SM60	60,0	62,8	1 (1 x 60)
CABINET MODULE 85	NATURAL GAS	CIQXX2SM85	81,0	84,8	1 (1 x 85)
CABINET MODULE 90 (**)	NATURAL GAS	CIQXX2SM90	80,0	83,0	2 (2 x 45)
CABINET MODULE 105 (**)	NATURAL GAS	CIQXX2SMA1	100,0	104,3	2 (1 x 60 + 1 x 45)
CABINET MODULE 120	NATURAL GAS	CIQXX2SM1C	115,0	122,0	1 (1 x 120)
CABINET MODULE 150	NATURAL GAS	CIQXX2SM1F	140,0	148,7	1 (1 x 150)
CABINET MODULE 170	NATURAL GAS	CIQXX2SM1H	162,0	169,6	2 (2 x 85)
CABINET MODULE 205	NATURAL GAS	CIQXX2SMA2	196,0	206,8	2 (1 x 85 + 1 x 120)
CABINET MODULE 240	NATURAL GAS	CIQXX2SM2E	230,0	244,0	2 (2 x 120)
CABINET MODULE 270	NATURAL GAS	CIQXX2SM2H	255,0	270,7	2 (1 x 120 + 1 x 150)
CABINET MODULE 300	NATURAL GAS	CIQXX2SM3A	280,0	297,4	2 (2 x 150)
CABINET MODULE 325	NATURAL GAS	CIQXX2SMC3	311,0	328,8	3 (1x 85 + 2 x 120)
CABINET MODULE 360	NATURAL GAS	CIQXX2SM3G	345,0	366,0	3 (3 x 120)
CABINET MODULE 390	NATURAL GAS	CIQXX2SM3J	370,0	392,7	3 (2 x 120 + 1 x 150)
CABINET MODULE 420	NATURAL GAS	CIQXX2SM4C	395,0	419,4	3 (1 x 120 + 2 x 150)
CABINET MODULE 450	NATURAL GAS	CIQXX2SM4F	420,0	446,1	3 (3 x 150)
CABINET MODULE 480	NATURAL GAS	CIQXX2SM4I	460,0	488,0	4 (4 x 120)
CABINET MODULE 510	NATURAL GAS	CIQXX2SM5B	485,0	514,7	4 (3 x 120 + 1 x 150)
CABINET MODULE 540	NATURAL GAS	CIQXX2SM5E	510,0	541,4	4 (2 x 120 + 2 x 150)
CABINET MODULE 570	NATURAL GAS	CIQXX2SM5H	535,0	568,1	4 (1 x120 + 3 x 150)
CABINET MODULE 600	NATURAL GAS	CIQXX2SM6A	560,0	594,8	4 (4 x 150)
CABINET MODULE 630	NATURAL GAS	CIQXX2SM6D	600,0	636,7	5 (4 x 120 + 1 x 150)
CABINET MODULE 660	NATURAL GAS	CIQXX2SM6G	625,0	663,4	5 (3 x 120 + 2 x 150)
CABINET MODULE 690	NATURAL GAS	CIQXX2SM6J	650,0	690,1	5 (2 x 120 + 3 x 150)
CABINET MODULE 720	NATURAL GAS	CIQXX2SM7C	675,0	716,8	5 (1 x 120 + 4 x 150)
CABINET MODULE 750	NATURAL GAS	CIQXX2SM7F	700,0	743,5	5 (5 x 150)
CABINET MODULE 780	NATURAL GAS	CIQXX2SM7I	740,0	785,4	6 (4 x 120 + 2 x 150)
CABINET MODULE 810	NATURAL GAS	CIQXX2SM8B	765,0	812,1	6 (3x120 + 3 x 150)
CABINET MODULE 870	NATURAL GAS	CIQXX2SM8H	815,0	865,5	6 (1 x 120 + 5 x 150)
CABINET MODULE 900	NATURAL GAS	CIQXX2SM9A	840,0	892,2	6 (6 x 150)

Configuration with plate exchanger on the right					
Model	Gas type	Code	Nominal heat input (Qn)	Heat output (50-30°C)	Modules
			kW	kW	Nr (nr x [model])
CABINET MODULE 45	NATURAL GAS	CIQXX2SN45	40,0	41,5	1 (1 x 45)
CABINET MODULE 60	NATURAL GAS	CIQXX2SN60	60,0	62,8	1 (1 x 60)
CABINET MODULE 85	NATURAL GAS	CIQXX2SN85	81,0	84,8	1 (1 x 85)
CABINET MODULE 90 (**)	NATURAL GAS	CIQXX2SN90	80,0	83,0	2 (2 x 45)
CABINET MODULE 105 (**)	NATURAL GAS	CIQXX2SNA1	100,0	104,3	2 (1 x 60 + 1 x 45)
CABINET MODULE 120	NATURAL GAS	CIQXX2SN1C	115,0	122,0	1 (1 x 120)
CABINET MODULE 150	NATURAL GAS	CIQXX2SN1F	140,0	148,7	1 (1 x 150)
CABINET MODULE 170	NATURAL GAS	CIQXX2SN1H	162,0	169,6	2 (2 x 85)
CABINET MODULE 205	NATURAL GAS	CIQXX2SNA2	196,0	206,8	2 (1 x 85 + 1 x 120)
CABINET MODULE 240	NATURAL GAS	CIQXX2SN2E	230,0	244,0	2 (2 x 120)
CABINET MODULE 270	NATURAL GAS	CIQXX2SN2H	255,0	270,7	2 (1 x 120 + 1 x 150)
CABINET MODULE 300	NATURAL GAS	CIQXX2SN3A	280,0	297,4	2 (2 x 150)
CABINET MODULE 325	NATURAL GAS	CIQXX2SNC3	311,0	328,8	3 (1x 85 + 2 x 120)
CABINET MODULE 360	NATURAL GAS	CIQXX2SN3G	345,0	366,0	3 (3 x 120)
CABINET MODULE 390	NATURAL GAS	CIQXX2SN3J	370,0	392,7	3 (2 x 120 + 1 x 150)
CABINET MODULE 420	NATURAL GAS	CIQXX2SN4C	395,0	419,4	3 (1 x 120 + 2 x 150)
CABINET MODULE 450	NATURAL GAS	CIQXX2SN4F	420,0	446,1	3 (3 x 150)
CABINET MODULE 480	NATURAL GAS	CIQXX2SN4I	460,0	488,0	4 (4 x 120)
CABINET MODULE 510	NATURAL GAS	CIQXX2SN5B	485,0	514,7	4 (3 x 120 + 1 x 150)
CABINET MODULE 540	NATURAL GAS	CIQXX2SN5E	510,0	541,4	4 (2 x 120 + 2 x 150)
CABINET MODULE 570	NATURAL GAS	CIQXX2SN5H	535,0	568,1	4 (1 x120 + 3 x 150)
CABINET MODULE 600	NATURAL GAS	CIQXX2SN6A	560,0	594,8	4 (4 x 150)
CABINET MODULE 630	NATURAL GAS	CIQXX2SN6D	600,0	636,7	5 (4 x 120 + 1 x 150)
CABINET MODULE 660	NATURAL GAS	CIQXX2SN6G	625,0	663,4	5 (3 x 120 + 2 x 150)
CABINET MODULE 690	NATURAL GAS	CIQXX2SN6J	650,0	690,1	5 (2 x 120 + 3 x 150)
CABINET MODULE 720	NATURAL GAS	CIQXX2SN7C	675,0	716,8	5 (1 x 120 + 4 x 150)
CABINET MODULE 750	NATURAL GAS	CIQXX2SN7F	700,0	743,5	5 (5 x 150)
CABINET MODULE 780	NATURAL GAS	CIQXX2SN7I	740,0	785,4	6 (4 x 120 + 2 x 150)
CABINET MODULE 810	NATURAL GAS	CIQXX2SN8B	765,0	812,1	6 (3x120 + 3 x 150)
CABINET MODULE 870	NATURAL GAS	CIQXX2SN8H	815,0	865,5	6 (1 x 120 + 5 x 150)
CABINET MODULE 900	NATURAL GAS	CIQXX2SN9A	840,0	892,2	6 (6 x 150)

(**) Versions of modular generators offered to create a low power heating system, spread on 2 heat generators instead of 1

FLUE FITTINGS AND ACCESSORIES

FLUE FITTINGS

Discharge for condensing boilers type B23 page 202
Discharge for condensing boilers type C13 page 204
Discharge for condensing boilers type C33 page 205
Discharge for condensing boilers type C53 page 208
Discharge for standard boilers Type B22 page 210
Discharge for standard boilers Type C12 page 211
Discharge for standard boilers Type C32 page 212
Discharge for standard boilers Type C52 page 214
Concentric flue fittings for condensing boilers Ø 60/100 page 215
Concentric flue fittings for condensing boilers Ø 80/125 page 215
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Concentric flue fittings for standard boilers Ø 60-100 page 223
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Concentric flue fittings for standard boilers Ø 80-125 page 224

ACCESSORIES

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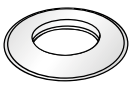
DISCHARGE FOR CONDENSING BOILERS TYPE B23

INTAKE AND VENT PIPES Ø 80







No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
10		Extension M/F Ø80 L=1 m	0PROLUNG00
11		Extension M/F Ø80 L=0.5 m	0PROLUNG01
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
16		Flue vent chimney Ø80 H=138cm	0CAMISCA00
18		Flue vent terminal Ø80 L=1m	0TERMSCA00
37		Tile for tilted roof (flue output)	0TEGTEIN00
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00

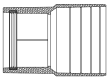
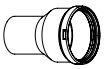
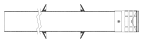
DISCHARGE FOR CONDENSING BOILERS TYPE B23

INTAKE AND VENT PIPES Ø 80-60





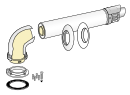
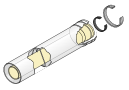


No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
16		Flue vent chimney Ø80 H=138cm	0CAMISCA00
24		Adapter Ø80/60	0RIDUZIO19
25		Adapter M/F Ø 60-80 M/F	0RIDUZIO10
28		90° elbow Ø60	0CURVAXX16
30		Extension M/F Ø60 L=1m	0PROLUNG16
32		Extension M/F Ø60 L=0.5 m	0PROLUNG18
36		Flue vent terminal Ø60 L=1m	0TERMSCA01
37		Tile for tilted roof (flue output)	0TEGTEIN00

DISCHARGE FOR CONDENSING BOILERS TYPE C13

INTAKE AND VENT PIPES Ø 60/100



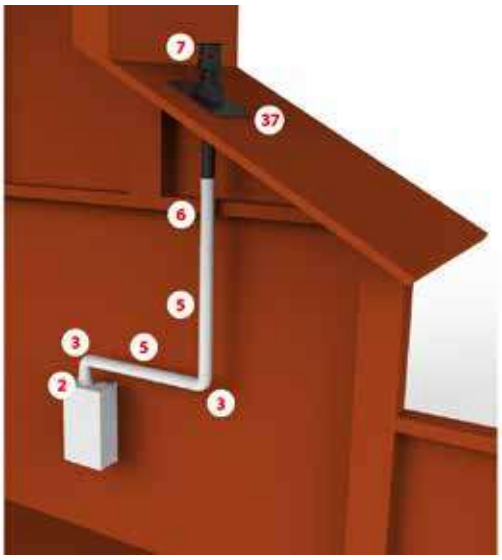
No.	Item	Description	Code
1		Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
2		Coaxial fitting kit Ø60/100	0KITATCO00
3		90° elbow M/F coaxial Ø60/100	0CURVAXX05
5		Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
6		Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03

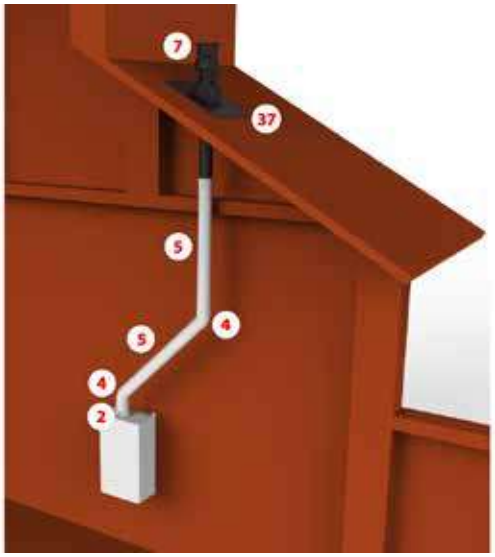


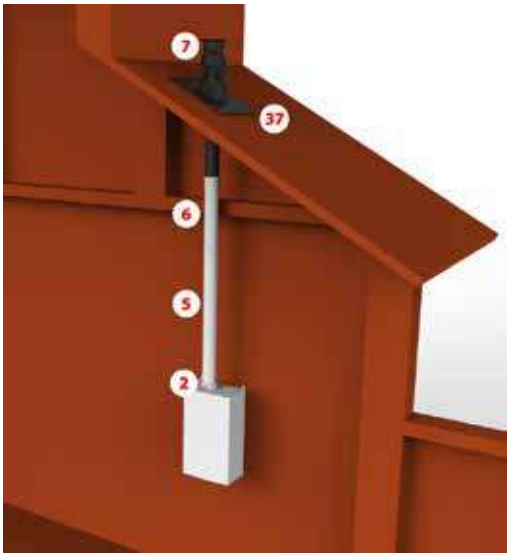


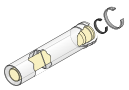
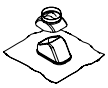
DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 60/100







No.	Item	Description	Code
2		Coaxial fitting kit Ø60/100	0KITATCO00
3		90° elbow M/F coaxial Ø60/100	0CURVAXX05
4		45° elbow M/F coaxial Ø60/100	0CURVAXX04
5		Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
6		Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03
7		Coaxial flue kit Ø60/100	0KCAMASP00
37		Tile for tilted roof (flue output)	0TEGTEIN00

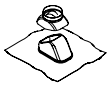
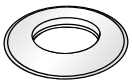
DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 80







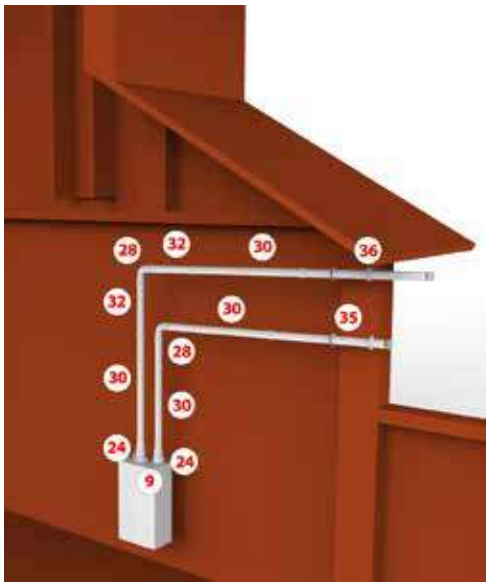
No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
10		Extension M/F Ø80 L=1 m	0PROLUNG00
11		Extension M/F Ø80 L=0.5 m	0PROLUNG01
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
17		Flue gas intake/vent chimney Ø80+80 H=138.4cm	0CAMIASP00
18		Flue vent terminal Ø80 L=1m	0TERMSCA00
19		Tee kit for visual inspection and collecting condensate Ø80	0KITRACT00
23		Tee M/M/F Ø80	0RACCORT00
37		Tile for tilted roof (flue output)	0TEGTEIN00
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00

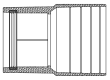
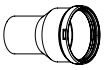
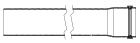
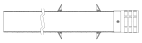
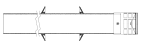
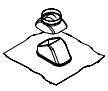
DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 60



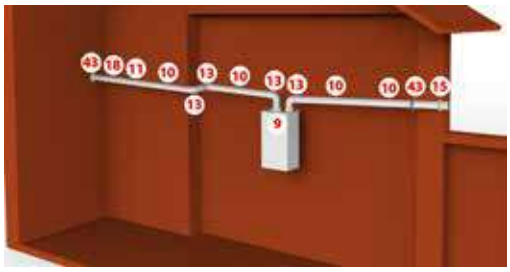


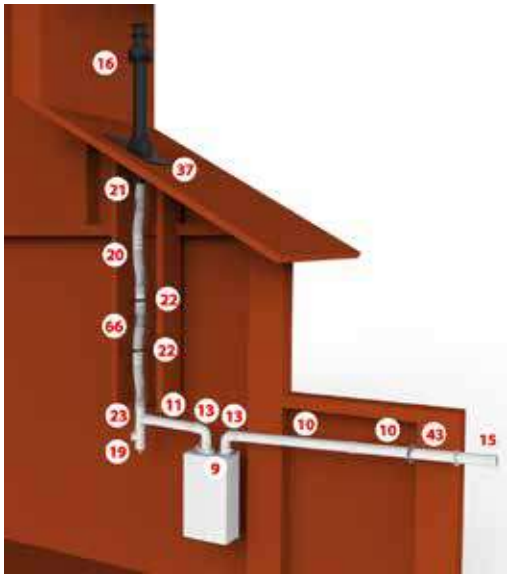


No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
17		Flue gas intake/vent chimney Ø80+80 H=138.4cm	0CAMIASP00
24		Adapter Ø80/60	0RIDUZIO19
25		Adapter M/F Ø 60-80 M/F	0RIDUZIO10
28		90° elbow Ø60	0CURVAXX16
30		Extension M/F Ø60 L=1m	0PROLUNG16
31		Extension M/F Ø60 L=2 m	0PROLUNG17
32		Extension M/F Ø60 L=0.5 m	0PROLUNG18
33		Tee M/M/F Ø60	0RACCORT06
34		Condensate drain Ø60	0SCARCON03
35		Air intake terminal Ø60 L=1m	0TERMASP01
36		Flue vent terminal Ø60 L=1m	0TERMSCA01
37		Tile for tilted roof (flue output)	0TEGTEIN00

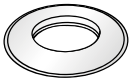
DISCHARGE FOR CONDENSING BOILERS TYPE C53

INTAKE AND VENT PIPES Ø 80







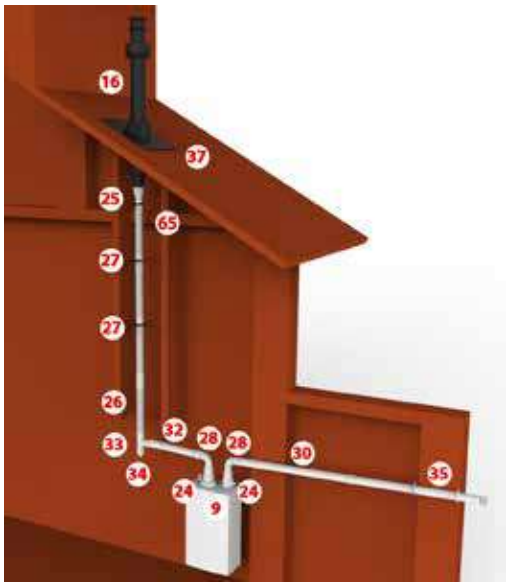
No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
10		Extension M/F Ø80 L=1 m	0PROLUNG00
11		Extension M/F Ø80 L=0.5 m	0PROLUNG01
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
16		Flue vent chimney Ø80 H=138cm	0CAMISCA00
18		Flue vent terminal Ø80 L=1m	0TERMSCA00
19		Tee kit for visual inspection and collecting condensate Ø80	0KITRACT00
20		Kit of adapters for flexible hose Ø80 (included gaskets)	0KADAFLE00
22		Centring element for flexible hose Ø80	0CENTFLE00
23		Tee M/M/F Ø80	0RACCORT00
37		Tile for tilted roof (flue output)	0TEGTEIN00
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
66		Flexible pipe M/F Ø80 (20m roll)	0TUBOFLE06

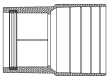
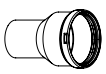
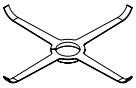
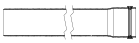
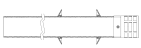
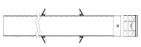
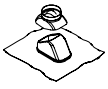
DISCHARGE FOR CONDENSING BOILERS TYPE C53

INTAKE AND VENT PIPES Ø 60







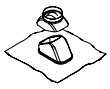
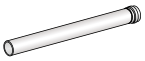
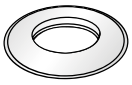
No.	Item	Description	Code
9		Splitter kit Ø80+80	0KITSDOP08
16		Flue vent chimney Ø80 H=138cm	0CAMISCA00
24		Adapter Ø80/60	0RIDUZIO19
25		Adapter M/F Ø 60-80 M/F	0RIDUZIO10
26		Kit of adapters for flexible hose Ø60	0KADAFLE01
27		Centring element for flexible hose Ø60	0CENTFLE02
28		90° elbow Ø60	0CURVAXX16
30		Extension M/F Ø60 L=1m	0PROLUNG16
31		Extension M/F Ø60 L=2 m	0PROLUNG17
32		Extension M/F Ø60 L=0.5 m	0PROLUNG18
33		Tee M/M/F Ø60	0RACCORT06
34		Condensate drain Ø60	0SCARCON03
35		Air intake terminal Ø60 L=1m	0TERMASP01
36		Flue vent terminal Ø60 L=1m	0TERMSCA01
37		Tile for tilted roof (flue output)	0TEGTEIN00
65		Flexible pipe M/F Ø60 (20m roll)	0TUBOFLE07

DISCHARGE FOR STANDARD BOILERS TYPE B22

INTAKE AND VENT PIPES Ø 80



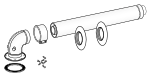
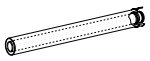
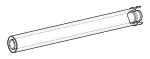


No.	Item	Description	Code
15		Suction opening Ø80	0GRIGASP01
37		Tile for tilted roof (flue output)	0TEGTEIN00
38		Extension Ø80 L= 1m	0CONDOTT00
39		Ø80 pipe L= 0.5m (for TFS boilers)	0CONDOTT01
40A		Elbow 90° Ø80 broad beam	0CURRALA00
40B		90° elbow with inspection Ø80 narrow radius (for TFS boilers)	0CURVAXX03
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
84		Upwind terminal Ø80 stainless steel	0TERCOIN00
86		Horizontal chimney terminal D80	0TESTCAM00
153		Coaxial flue kit	0SDOPPIA13

DISCHARGE FOR STANDARD BOILERS TYPE C12

INTAKE AND VENT PIPES Ø 60/100



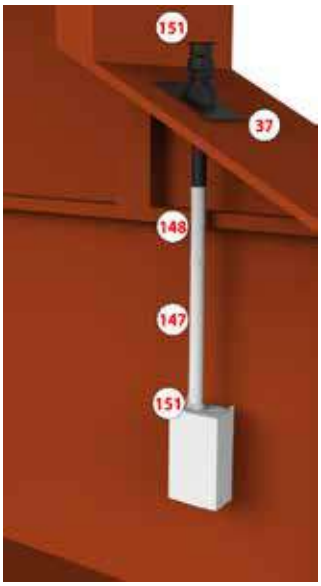
No.	Item	Description	Code
140		Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
147		Concentric pipe length 1m D60/100 (for TFS boilers)	0TUBCOLU00
148		Concentric pipe length 0.5m D60/100 (for TFS boilers)	0TUBCOLU01

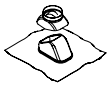
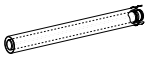
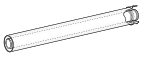
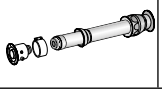
DISCHARGE FOR STANDARD BOILERS TYPE C32

INTAKE AND VENT PIPES Ø 60/100







No.	Item	Description	Code
37		Tile for tilted roof (flue output)	0TEGTEIN00
78		Elbow 90° coaxial Ø100/60 (for boilers TFS)	0CURVCON00
79		Elbow 45° coaxial Ø100/60 (for boilers TFS)	0CURVCON01
147		Concentric pipe length 1m D60/100 (for TFS boilers)	0TUBCOLU00
148		Concentric pipe length 0.5m D60/100 (for TFS boilers)	0TUBCOLU01
151		Coaxial roof chimney Ø100/60 (for TFS boilers)	0SCATECO00

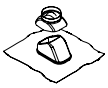
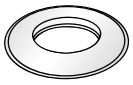
DISCHARGE FOR STANDARD BOILERS TYPE C32

INTAKE AND VENT PIPES Ø 80



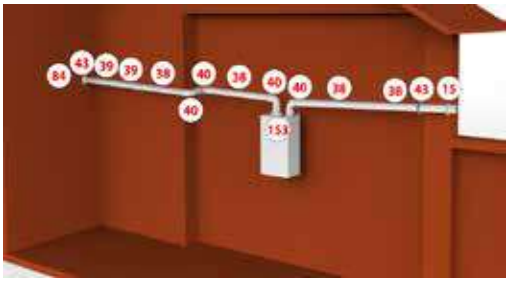




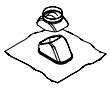
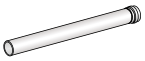
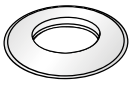
No.	Item	Description	Code
15		Suction opening Ø80	0GRIGASP01
37		Tile for tilted roof (flue output)	0TEGTEIN00
38		Extension Ø80 L= 1m	0CONDOTT00
39		Ø80 pipe L= 0.5m (for TFS boilers)	0CONDOTT01
40A		Elbow 90° Ø80 broad beam	0CURRALA00
40B		90° elbow with inspection Ø80 narrow radius (for TFS boilers)	0CURVAXX03
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
84		Upwind terminal Ø80 stainless steel	0TERCOIN00
149		Chimney for splitted pipes Ø80/80 (for boilers TFS)	0CAMCOSD00
153		Coaxial flue kit	0SDOPPIA13

DISCHARGE FOR STANDARD BOILERS TYPE C52

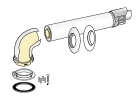
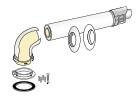
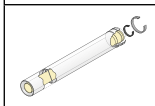
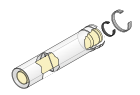
INTAKE AND VENT PIPES Ø 80

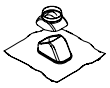




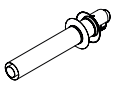
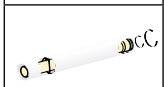
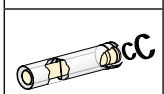
No.	Item	Description	Code
15		Suction opening Ø80	0GRIGASP01
37		Tile for tilted roof (flue output)	0TEGTEIN00
38		Extension Ø80 L= 1m	0CONDOTT00
39		Ø80 pipe L= 0.5m (for TFS boilers)	0CONDOTT01
40A		Elbow 90° Ø80 broad beam	0CURRALA00
40B		90° elbow with inspection Ø80 narrow radius (for TFS boilers)	0CURVAXX03
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
84		Upwind terminal Ø80 stainless steel	0TERCOIN00
86		Horizontal chimney terminal D80	0TESTCAM00
88		Vertical stub pipe with condensate trap Ø80 L=0.135m (for TFS boilers)	0TRONVER00
153		Coaxial flue kit	0SDOPPIA13

CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 60/100

Item	Description	Code
	Ø60/100 coaxial kit in painted steel, length 75 cm	0CONDASP00
	Plastic coaxial kit Ø60/100 length 75 cm	0CONDASP02
	Coaxial fitting kit Ø60/100	0KITATCO00
	90° elbow M/F coaxial Ø60/100	0CURVAXX05
	45° elbow M/F coaxial Ø60/100	0CURVAXX04
	Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
	Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03
	Coaxial flue kit Ø60/100	0KCAMASP00

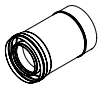
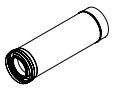
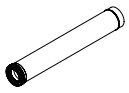
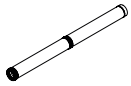
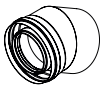
Item	Description	Code
	Elbow 90° and flange kit Ø60/100	0KCURFLA00
	Tile for tilted roof (flue output)	0TEGTEIN00
	Sealing collar kit D 100	0KCOLLBL00
	Concentric terminal 60/100	0TERMCON01
	Starting flange kit for condensing boilers	0KITFLAN00
	Ducting plate kit Ø60/100	0PIASINT02
	30° elbow M/F coaxial Ø60/100	0CURVAXX31
	15° elbow M/F coaxial Ø60/100	0CURVAXX32

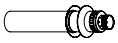
CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 80/125

Item	Description	Code
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00
	Intake/condensate drain kit	0KITASCA00
	80/125 straight intake/vent tailpipe kit	0KITASCA01
	Coaxial flue + flange kit	0KITCACO00
	80/125 flue kit	0KITCACO01
	Coax. extension D.80/125 L=1m	0PROLUNG04
	Coax. extension D.80/125 L=0.5m	0PROLUNG05

Item	Description	Code
	Coaxial M-F 45° elbow D. 80/125	0CURVAXX06
	Coaxial M-F 90° elbow D. 80/125	0CURVAXX07
	90° elbow for visual inspection D. 80/125	0CURVISP05
	Extension for visual inspection d80/125	0TUBISPV05
	Coaxial flue gases starting kit 125/80 (for boiler ITACA CH KR)	0ATTCOFL01
	80/125 pipework plate kit	0PIASINT01
	Sealing collar kit D 125	0KCOLLBL01

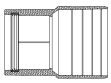
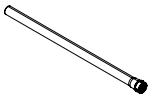
CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 100/150

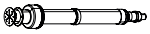
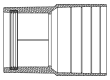
Item	Description	Code
	150 / 100 concentric starter fitting kit	0ATTCOFL00
	100/150 coax. extension M/F L=250	0PROLUNG20
	100/150 coax. extension M/F L=500	0PROLUNG21
	100/150 coax. extension M/F L=1000	0PROLUNG22
	100/150 coax. extension M/F L=2000	0PROLUNG23
	100/150 90° M/F elbow	0CURVAXX18
	100/150 45° M/F elbow	0CURVAXX19
	100/150 coaxial 15° M/F elbow	0CURVAXX20
	100/150 coaxial 30° M/F elbow	0CURVAXX21
	100/150 Tee fitting M/M/F cap	0RACTTAP00

Item	Description	Code
	100/150 Tee fitting M/M/F 90° cap	0RACTTAP01
	100/150 Coaxial fitting M/M/F outlets	0ATTCOVE07
	100/150 Coaxial fitting M/M/F Pipe Fitting	0ATTCOVE08
	100/150 coaxial wall term.	0TERMPAR00
	Adapter kit from 80/125 to 100/150	0RIDUZIO22
	100/150 coaxial roof term.	0TERMTET00
	100/150 pipework plate kit	0PIASINT00
	Sealing collar kit D 150	0KCOLLBL02
	100/150 direct coaxial wall term. (*)	0TERMTET01

(*) Items normally not in stock, minimum stock availability time 8 weeks.

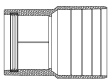
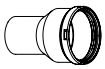
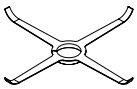
SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 50

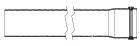
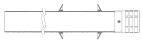
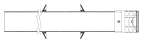
Item	Description	Code
	Adapter M/F Ø80/50	0RIDUZIO32
	Extention M/F Ø50 L=1m (*)	0PROLUNG32
	90° elbow Ø50 (*)	0CURVAXX33
	45° elbow Ø50 (*)	0CURVAXX34
	Air intake terminal Ø50 L=1m (*)	0TERMASP02
	Flue vent terminal Ø50 L=0,36m (*)	0TERMSCA04
	Tee M/M/F Ø50 (*)	0KITRACT06

Item	Description	Code
	Condensate drain Ø50 (*)	0SCARCON05
	Vertical flue vent terminal Ø50 H=145cm (*)	0TERMTET02
	Flexible pipe M/F Ø50 (20m roll) (*)	0TUBOFLE08
	Kit of adapters for flexible hose Ø50 (*)	0KADAFLE02
	Centring element for flexible hose Ø50 (*)	0CENTFLE03
	Vertical terminal for flexible hose Ø50 with flue cover (C9 type installation) (*)	0TERMTET03
	Adapter Ø60/50 M-F (C9 type installation) (*)	0RIDUZIO33

(*) Items normally not in stock, minimum stock availability time 8 weeks.

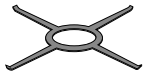
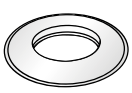
SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 60

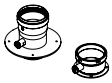
Item	Description	Code
	Adapter Ø80/60	0RIDUZIO19
	Adapter M/F Ø 60-80 M/F	0RIDUZIO10
	Flexible pipe M/F Ø60 (20m roll)	0TUBOFLE07
	Kit of adapters for flexible hose Ø60	0KADAFLE01
	Centring element for flexible hose Ø60	0CENTFLE02
	90° elbow Ø60	0CURVAXX16
	45° elbow Ø60	0CURVAXX17
	Extension M/F Ø60 L=1m	0PROLUNG16

Item	Description	Code
	Extension M/F Ø60 L=2 m	0PROLUNG17
	Extension M/F Ø60 L=0.5 m	0PROLUNG18
	Tee M/M/F Ø60	0RACCORT06
	Condensate drain Ø60	0SCARCON03
	Air intake terminal Ø60 L=1m	0TERMASP01
	Flue vent terminal Ø60 L=1m	0TERMSCA01
	Vertical terminal for flexible hose Ø60 with flue cover (C9 type installation) (*)	0TERMTET04

(*) Items normally not in stock, minimum stock availability time 8 weeks.

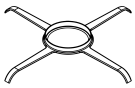
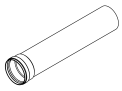
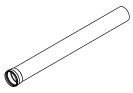
SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 80

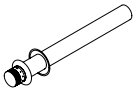
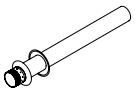
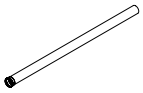
Item	Description	Code
	Splitter kit Ø80+80	0KITSDOP08
	Telescopic extension M/F Ø80 (0.34-0.45m)	0PROLTEL01
	45° elbow M/F Ø80	0CURVAXX01
	Suction opening Ø80	0GRIGASP01
	Flue vent chimney Ø80 H=138cm	0CAMISCA00
	Flue gas intake/vent chimney Ø80+80 H=138.4cm	0CAMIASP00
	Tee kit for visual inspection and collecting condensate Ø80	0KITRACT00
	Flexible pipe M/F Ø80 (20m roll)	0TUBOFLE06
	Kit of adapters for flexible hose Ø80 (included gaskets)	0KADAFLE00
	Centring element for flexible hose Ø80	0CENTFLE00
	Tee M/M/F Ø80	0RACCORT00
	Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00

Item	Description	Code
	Suction opening in AISI316 Stainless steel Ø80 H=30mm (for TFS boilers)	0GRIASIN00
	Flanged flue gas starter fitting D 80 (for boiler ITACA CH KR)	0PARTFUM01
	Air intake stub pipe + inspection (for boiler ITACA CH KR)	0TRONASP00
	Split starting kit 80 (for boiler ITACA CH KR)	0KITSDOP06
	Extension M/F Ø80 L=1 m	0PROLUNG00
	Extension M/F Ø80 L=0.5 m	0PROLUNG01
	90° elbow M/F Ø80	0CURVAXX02
	Flue vent terminal Ø80 L=1m	0TERMSCA00
	Vertical terminal for flexible hose Ø80 with flue cover (C9 type installation) (*)	0TERMTET05
	Double lip seal Ø80 for condensation	0GUADOLA04
	Seal for flexible hose Ø80 (10pcs) (included in 0KADAFLE00)	0GUAFLEX00

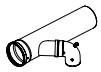
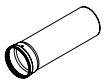
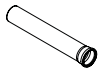
(*) Items normally not in stock, minimum stock availability time 8 weeks.

SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 100

Item	Description	Code
	Centring element for flexible hose Ø100	0CENTFLE01
	90° elbow with inspection M/F Ø100	0CURVAXX08
	90° elbow M/F Ø100	0CURVAXX10
	45° elbow M/F Ø100	0CURVAXX11
	Extension M/F Ø100 L=0.5 m	0PROLUNG07
	Extension M/F Ø100 L=1 m	0PROLUNG08
	Tee M/M/F Ø100	0RACCORT01
	Tee kit M/M/F Ø100 for visual inspection and draining condensate	0RACCORT02
	Tee kit M/M/F Ø100 for visual inspection	0RACCORT03
	Adapter Ø80/100	0RIDUZIO13
	Condensate drain kit Ø100	0SCARCON00
	Condensate drain trap with horizontal fitting	0SIFCOND00
	Condensate drain trap with vertical fitting	0SIFCOND01

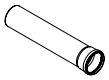
Item	Description	Code
	Roof terminal Ø100	0TERCOIN01
	Air intake terminal Ø100 L=1m	0TERMASP00
	Flue vent terminal Ø100 L=1m	0TERMSCA03
	Vertical stub pipe with inspection M/F Ø100 L=140mm	0TROSCAF01
	Flexible pipe M/F Ø100 (without seals, 20m roll)	0TUBOFLE04
	Extension M/F Ø100 L=2 m	0PROLUNG09
	Flanged flue gas starter fitting D 100 (for boiler ITACA CH KR)	0PARTFUM00
	D100 Suction opening	0GRIGASP02
	Sealing collar kit D 100	0KCOLLBL00
	Split starting kit 100 + 100 (for boiler ITACA CH KR)	0KITSDOP05
	Air intake flanged stub pipe D 100 (for boiler ITACA CH KR)	0TRONFLA05
	Double lip seal Ø100 for condensation	0GUADOLA03

FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 160

Item	Description	Code
	Flue gas pipe for thermal module Ø 160	0COLLFUM03
	Extension L 500 Ø160 (*)	0PROLUNG31
	Extension M/F Ø160 L=1 m (*)	0PROLUNG10
	90° elbow M/F Ø160 (*)	0CURVAXX12
	45° elbow M/F Ø160 (*)	0CURVAXX14

Item	Description	Code
	Tee M/M/F Ø160 (*)	0RACCORT04
	Plug kit for flue gas duct Ø160 (with the possibility to drain condensate)	0SCARCON01
	Elbow 30° M/F Ø160 (*)	0CURVAXX28
	Elbow 15° M/F Ø160 (*)	0CURVAXX30

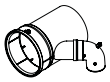
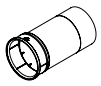
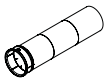
FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 200

Item	Description	Code
	90° elbow M/F Ø200 (*)	0CURVAXX13
	45° elbow M/F Ø200 (*)	0CURVAXX15
	Extension M/F Ø200 L=1 m (*)	0PROLUNG13
	Extension M/F Ø200 L=0.475 (for connection of flue gas pipes, installation with no cabinet) (*)	0PROLUNG15
	Tee M/M/F Ø200 (*)	0RACCORT05

Item	Description	Code
	Plug kit for flue gas duct Ø200 (with the possibility to drain condensate)	0SCARCON02
	Flue gas pipe for thermal module Ø 200	0COLLFUM05
	Extension D 200 L 370 mm for the connection of two adjacent flue gas collectors D 200	0PROLUNG25
	Elbow 30° M/F Ø200 (*)	0CURVAXX27
	Elbow 15° M/F Ø200 (*)	0CURVAXX29

(*) Items normally not in stock, minimum stock availability time 8 weeks.

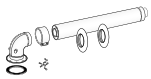
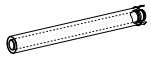
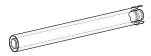
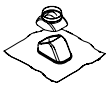
FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 250

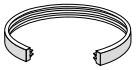
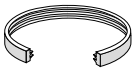
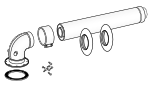
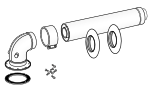
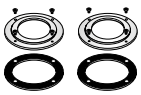
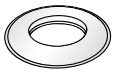
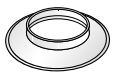
Item	Description	Code
	Flue gas pipe for thermal module Ø 250	0COLLFUM06
	Extension Ø250 L 370 mm for the connection of two adjacent flue gas collectors Ø250	0PROLUNG26
	Extension Ø250 L 500 mm (*)	0PROLUNG29
	Extension Ø250 L 1000 mm (*)	0PROLUNG30
	Elbow Ø250 90° (*)	0CURVAXX26
	Elbow Ø250 45° (*)	0CURVAXX25

Item	Description	Code
	Elbow Ø250 30° (*)	0CURVAXX24
	Elbow Ø250 15° (*)	0CURVAXX23
	Tee fitting M/M/F Ø250 (*)	0RACCORD28
	Fitting for collector Ø250 with condensate drain	0SCARCON04
	Elbow Ø250 with inspection (*)	0CURVISP06

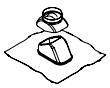
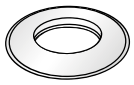
(*) Items normally not in stock, minimum stock availability time 8 weeks.

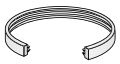
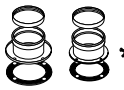
CONCENTRIC FLUE FITTINGS FOR STANDARD BOILERS Ø 60-100

Item	Description	Code
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Concentric pipe length 1m D60/100 (for TFS boilers)	0TUBCOLU00
	Concentric pipe length 0.5m D60/100 (for TFS boilers)	0TUBCOLU01
	Elbow 90° coaxial Ø100/60 (for boilers TFS)	0CURVCON00
	Elbow 45° coaxial Ø100/60 (for boilers TFS)	0CURVCON01
	Coaxial roof chimney Ø100/60 (for TFS boilers)	0SCATECO00
	Tile for tilted roof (flue output)	0TEGTEIN00
	Vertical coaxial fitting Ø100/60 (for boilers TFS)	0ATTCOVE00
	Vertical coaxial fitting with collecting condensate Ø100/60 (for boilers TFS)	0ATTCOVE02
	Elbow 90° flangiata coassiale Ø100/60 (per caldaie TFS)	0CURCOFL00

Item	Description	Code
	Clamp Ø100 for coaxial kit	0FASCETT04
	Twin-lip seal Ø60	0GUADOLA00
	Twin-lip seal Ø100	0GUADOLA01
	Coaxial kit D60/100 L=0.75m (for boiler TFS)	0KITCONC01
	Coaxial kit for covering frame D600/100 L=0.75m (for TFS boilers)	0KITCONC02
	Coaxial kit D60/100 L=0.5m (for boiler TFS)	0KITCONC03
	Sealing caps kit for venting	0KITTACA00
	Wall rosette external Ø100	0ROSONEX00
	Wall rosette internal Ø100	0ROSONEX01

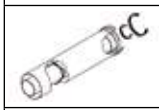
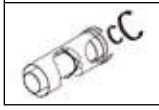
SPLIT FLUE FITTINGS FOR STANDARD BOILERS Ø 80

Item	Description	Code
	Coaxial flue kit	0SDOPPIA13
	Extension Ø80 L= 1m	0CONDOTT00
	Ø80 pipe L= 0.5m (for TFS boilers)	0CONDOTT01
	Elbow 90° Ø80 broad beam	0CURRALA00
	90° elbow with inspection Ø80 narrow radius (for TFS boilers)	0CURVAXX03
	Suction opening Ø80	0GRIGASP01
	Upwind terminal Ø80 stainless steel	0TERCOIN00
	Tile for tilted roof (flue output)	0TEGTEIN00
	Horizontal chimney terminal D80	0TESTCAM00
	Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
	Chimney for splitted pipes Ø80/80 (for boilers TFS)	0CAMCOSD00

Item	Description	Code
	90° elbow Ø80 narrow radius (for TFS boilers)	0CURRAST00
	45° elbow Ø80 (for TFS boilers)	0CURVAXX00
	Seal Ø80 (twin-lip)	0GUADOLA02
	Condensation drain trap M/F Ø80 (for TFS boilers)	0RACCOOR00
	Roof brace terminal Ø80 INOX	0TERCOIN02
	STAINLESS STEEL "Chinese" terminal Ø80 (for TFS boilers)	0TERMCIN00
	Vertical stub pipe Ø80 L=0.135m (for TFS boilers)	0TRONCMF00
	Split comp. plus kit '11 (while stocks last)	0SDOPPIA12
	Standard split pipe kit for	0SDOPPIA05
	Splitter kit for traditional boiler (for boiler MINORCA CTFS)	0SDOPPIA14
	Vertical stub pipe with condensate trap Ø80 L=0.135m (for TFS boilers)	0TRONVER00

CONCENTRIC FLUE FITTINGS FOR STANDARD BOILERS Ø 80-125

Item	Description	Code
	Coaxial kit 80/125 horizontal terminal	0KITCONC05
	90° elbow for visual inspection D. 80/125	0CURVISP02
	Extension for visual inspection D. 80/125	0TUBISPV02
	T-shaped fitting 80/125	0KITRACT05
	Vertical coaxial connection D. 80/125	0ATTCOVE01
	90° concentric elbow D. 80/125	0CURVCON02

Item	Description	Code
	45° concentric elbow D. 80/125	0CURVCON03
	Vertical concentric roof discharge 80/125	0SCATECO01
	Concentric pipe D. 80/125 length 0.5 m	0TUBCOLU03
	Concentric pipe D. 80/125 length 1 m	0TUBCOLU02
	Concentric pipe D. 80/125 length 0.25 m	0TUBCOLU04

ACCESSORIES

THERMOREGULATION AND ELECTRONIC

Item	Description	ANTEA KC	ANTEA KR	ANTEA KRB	ANTEA NEXT KC	ANTEA NEXT KR	ANTEA NEXT KRB	GIAVA KRB	ITACA CH KR	ITACA KC	ITACA KR	ITACA KRB	ITACA KB	TENERIFE KC	Code
	Spot Easy WI-FI Thermostat	●	●	●	●	●	●	●		●	●	●	●	●	0SPOTAPP20
	Multi-zone radio relay for pairing with Spot Easy thermostat	●	●	●	●	●	●	●		●	●	●	●	●	0RELERAD01
	Remote control Ready Remote	●	●	●	●	●	●	●		●	●	●	●	●	0CREMOTO08
	Remote control, ErP V class (118x85x32 mm)	●	●	●	●	●	●	●	●	●	●	●	●	●	0CREMOTO04
	Antifreeze heating element kit	●	●	●	●	●	●			●	●	●	●	●	0KANTIGE00
	Ambient temperature probe				●	●	●	●		●	●	●	●	●	0KITSAMB00
	Surge arrester kit	●	●	●	●	●	●	●	●	●	●	●	●	●	0KITSCAR00
	Electric kit for complex solar plant management	●	●	●				●		●	●	●	●		0KITSOLC08
	hot water storage tank temperature probe 3m		●	●		●	●		●		●	●			0KITSOND00
	Electrical kit for zone management with external probe	●	●	●				●		●	●	●	●		0KITZONE05
	Cascade controlling probe								●						0KSONDCO00
	External probe								●						0KSONEST01
	External probe (60x45x31 mm)	●	●	●	●	●	●	●		●	●	●	●	●	0SONDAES01

ACCESSORIES

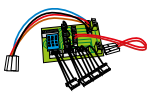
THERMOREGULATION AND ELECTRONIC

Item	Description	ANTEA KC	ANTEA KR	ANTEA KRB	ANTEA NEXT KC	ANTEA NEXT KR	ANTEA NEXT KRB	GIAVA KRB	ITACA CH KR	ITACA KC	ITACA KR	ITACA KRB	ITACA KB	TENERIFE KC	Code
	Electromechanical ambient thermostat, ErP I class (71x71x40 mm)	●	●	●	●	●	●	●	●	●	●	●	●	●	0TERAMEL00
	Master slave connection kit 45-150kw								●						0KITCASC00
	Master slave connection kit 45-150kw (back)								●						0KITCASC01
	Kit Modbus Itaca CH								●						0KMODBUS00
	NTC probe kit for 10k beta 3977 circuit breaker (*)				●	●	●								0KITSOND01
	PT 1000 probe kit with ring connection (*)				●	●	●								0KITSOPT00
	Temperature probe for solar plants				●		●			●		●			PSPTMILL00

(*) Items normally not in stock, minimum stock availability time 8 weeks.

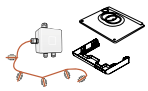
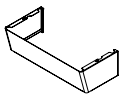
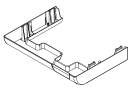
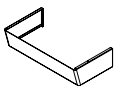
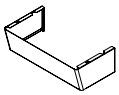
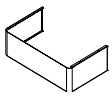
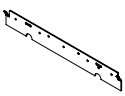
ACCESSORIES

THERMOREGULATION AND ELECTRONIC

Item	Description	ANTEA CTFS	ANTEA CTFS 40	ANTEA CTN	ANTEA RBTFS	ANTEA RBTFS 40	ANTEA RBTN	ANTEA RTFS	ANTEA RTFS 40	BALI RTN E	FORMENTERA CTFS	FORMENTERA RBTFS	FORMENTERA RTFS	MAIORCA CTFS	MINORCA CTFS (CU)	MINORCA CTN (CU)	Code
	Spot Easy WI-FI Thermostat	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0SPOTAPP20
	Multi-zone radio relay for pairing with Spot Easy thermostat	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0RELERAD01
	Remote control for thermoregulation control unit (temperature regulation), ErP VI class (87x87x31 mm)									●							0CREMOTO00
	Remote control for thermoregulation control unit, ErP V class (146x97x34 mm)									●							0CREMOTO01
	Remote control Ready Remote	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0CREMOTO08
	Remote control, ErP V class (118x85x32 mm)	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0CREMOTO04
	Ambient temperature probe													●	●	●	0KITSAMB00
	Surge arrester kit	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	0KITSCAR00
	Electric kit for complex solar plant management	●	●	●	●	●	●	●	●		●	●	●				0KITSOLC08
	Electrical kit for zone management with external probe	●	●	●	●	●	●	●	●		●	●	●				0KITZONE05
	External probe (60x45x31 mm)	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0SONDAES01
	Flow probe for low temperature zone for climate control unit									●							0SONDARI01
	Electromechanical ambient thermostat, ErP I class (71x71x40 mm)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	0TERAMEL00
	Kit for zone pumps									●							0KITPOMZ00
	Temperature probe for solar plants										●	●	●				PSPTMILL00

ACCESSORIES

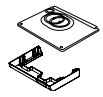
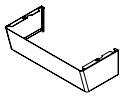
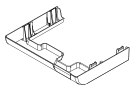
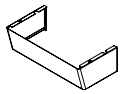
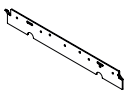
OUTDOOR INSTALLATION PARTIALLY PROTECTED AND OPTIONAL ACCESSORIES

Item	Description	ANTEA KC	ANTEA KR	ANTEA KRB	ANTEA NEXT KC	ANTEA NEXT KR	ANTEA NEXT KRB	ITACA KC	ITACA KR	ITACA KRB	ITACA KB	TENERIFE KC	Code
	Coaxial air intake/flue gas venting connection for B23 type installations							●	●	●			0ATTCOVE06
	Outdoor cover kit with antifreeze protection kit							●	●	●			0KITCOPE01
	Outdoor cover kit							●	●	●			0KITCOPE02
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	●	●	●								●	0COPETUB00
	Pipes and taps low plastic cover							●	●	●			0COPETUB03
	Pipes and taps cover										●		0COPETUB05
	Pipes and taps high metal cover							●	●	●			0COPETUB07
	Covering pipes and boiler taps ANTEA NEXT KC - KR - KRB (*)				●	●	●						0COPETUB08
	Basic compact install. metal template	●	●	●									0DIMMECO10
	Metal fixing template							●	●	●			0DIMMECO11
	Metal template for KB boiler										●		0DIMMECO12
	Wall spacing kit	●	●	●	●	●	●	●	●	●		●	0DISTANZ00
	Frame for built-in installation (only for standard and V versions)												0TELAINC06
	Wall mounting bracket for compact boiler	●	●	●									0KSTASOS00

(*) Items normally not in stock, minimum stock availability time 8 weeks.

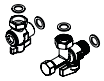
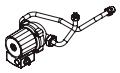
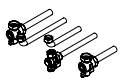
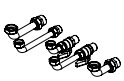
ACCESSORIES

OUTDOOR INSTALLATION PARTIALLY PROTECTED AND OPTIONAL ACCESSORIES

Item	Description	ANTEA CTFS	ANTEA CTFS 40	ANTEA CTN	ANTEA RBTFS	ANTEA RBTFS 40	ANTEA RBTN	ANTEA RTFS	ANTEA RTFS 40	FORMENTERA CTFS	FORMENTERA RBTFS	FORMENTERA RTFS	MAIORCA CTFS	MINORCA CTFS (CU)	MINORCA CTN (CU)	Code
	Cover and anti-freeze protection kit									●	●	●				0KITCOPE03
	External protection kit for standard boilers									●	●	●				0KITCOPE04
	Compact wall pipe cover - Height 110 mm - Width 400 mm - Depth (upper part) 194 mm - Depth (lower part) 165 mm	●		●	●	●	●	●	●					●	●	0COPETUB00
	Pipes and taps low plastic cover									●	●	●	●			0COPETUB03
	Pipes and taps high metal cover									●	●	●	●			0COPETUB07
	Metal fixing template									●	●	●	●			0DIMMECO11
	Wall spacing kit	●		●	●	●	●	●	●	●	●	●	●	●	●	0DISTANZ00
	Wall mounting bracket for compact boiler	●		●	●	●	●	●	●					●	●	0KSTASOS00

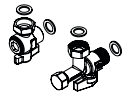
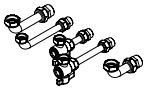
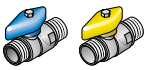
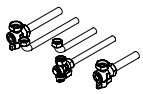
ACCESSORIES

HYDRAULIC

Item	Description	ANTEA KC	ANTEA KR	ANTEA KRB	ANTEA NEXT KC	ANTEA NEXT KR	ANTEA NEXT KRB	GIAVA KRB	ITACA CH KR	ITACA KC	ITACA KR	ITACA KRB	ITACA KB	TENERIFE KC	Code
	Magnetic dirt separator filter	●	●	●	●	●	●	●		●	●	●	●	●	0AFILDEF00
	Condensate neutralizer kit (Pmax 350 kw)								●						0FILNECO01
	Filter refill Pmax 350kW - QTY 1 for Outputs up to 350 kW - QTY 2 for Outputs up to 700 kW - QTY 3 for Outputs up to 900 kW								●						0RICAFIL01
	Condensate neutralizer kit (Pmax 85 kw)								●						0FILNECO03
	Filter refill								●						0RICAFIL03
	Tap kit with filter KR-KB-RT		●			●					●		●		0KITRUBI04
	Tap kit with filter KC-KRB-CT-RBT	●		●	●		●			●		●		●	0KITRUBI05
	Giava recirculation optional kit							●							0KRICIRC00
	Recirculation kit												●		0KRICIRC02
	Kit for connection to solar plant	●								●				●	0KITSOLC07
	Basic solar kit	●			●					●				●	0KITSOLC09
	Basic hydraulic kit											●			0KITIDBA17
	Gas and water cock kit	●	●	●						●	●	●	●	●	0KITRUBI01
	Boiler hydraulic kit	●								●				●	0KITIDBA22
	Basic hydraulic kit	●	●							●	●			●	0KITIDBA16
	Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m	●	●	●						●	●	●	●	●	0KITIDTR00
	Basic hydraulic kit Next boilers ANTEA NEXT KC - KR - KRB				●	●	●								0KITIDBA30

ACCESSORIES

HYDRAULIC

Item	Description	ANTEA CTFS	ANTEA CTFS 40	ANTEA RTN	ANTEA CTN	ANTEA RBTFS	ANTEA RBTFS 40	ANTEA RBTN	ANTEA RTFS	ANTEA RTFS 40	BALI RTN E	FORMENTERA CTFS	FORMENTERA RBTFS	FORMENTERA RTFS	MAIORCA CTFS	MINORCA CTFS (CU)	MINORCA CTN (CU)	Code
	Flow - return cold water 90° taps kit	●	●		●							●			●	●	●	0KITIDBA11
	Tap kit with filter KR-KB-RT			●					●	●				●				0KITRUBI04
	Plus hydr. kit for basic compact unit	●			●		●	●		●						●	●	0KITIDBA14
	Basic solar kit	●	●		●							●			●	●	●	0KITSOLC09
	Gas and water cock kit	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	0KITRUBI01
	Boiler hydraulic kit	●	●		●							●			●	●	●	0KITIDBA22
	Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m	●	●	●		●	●	●	●	●		●				●	●	0KITIDTR00

SOLAR THERMAL PRODUCTS

COLLECTORS

Solar Collectors FPM 23 - FPM 27 page 236

SYSTEMS

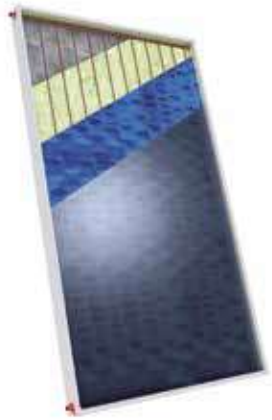
Sulpack Evo page 240
Sulpack Pro page 241
Sulpack Easy page 242
Sulpack Natural FPM page 244

ACCESSORIES

Solar pump group rs1, only return page 246
Solar pump group mrs3, flow and return page 246
Circulation pumps page 247
Additional tanks page 247
Expansion vessels page 247
Accessories for tanks page 248
Thermostatic mixing valve page 248
Three-way deviating valve page 249
Concentrated solar protection liquid page 249
Pipes for solar plants page 250
Fitting for solar plants page 250
Solar kit for combination boilers page 251
Temperature probe page 251
SG2 solar control unit page 252

SOLAR COLLECTORS FPM 23 - FPM 27

SOLAR THERMAL FLAT-PLATE COLLECTORS FOR INSTALLATION ON FLAT ROOF AND PITCHED-ROOF (PARALLEL OR IN-ROOF INSTALLATION)

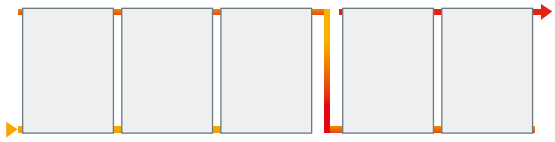
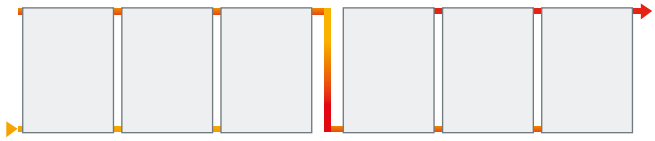
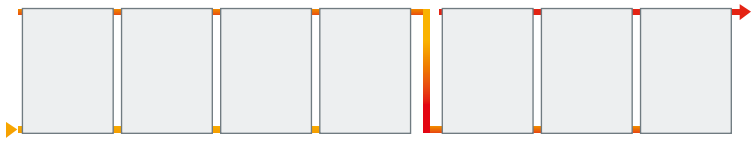


- **Very high efficiency**
- **Powder-coated aluminum frame**
- **Aluminum absorber with blue titanium selective coating**
- **Copper piping**
- **Laser welding**
- **Zinc-aluminum corrosion-resistant casing**
- **Rock wool insulation with a thickness of 40 mm**
- Harp flow pattern
- Low-iron tempered prismatic glass
- Possibility to connect up to 8 collectors in series
- Suitable for vertical installation

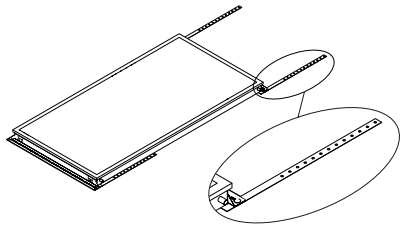
Data	um	FPM 23	FPM 27
Gross surface area (A_{sol})	m²	2,37	2,72
Aperture surface area (A_a)	m²	2,23	2,57
Absorbance	%	95	95
Emission	%	5	5
Glass transmittancy	%	91	91
Liquid content	litres	1,69	1,81
Maximum operating pressure	bar	10	10
Net weight	kg	40,6	46,1
Stagnation temperature	°C	190,5	190,5
η0	-	0,76	0,77
α1	W/(m²K)	3,59	3,15
α2	W/(m²K²)	0,014	0,012
IAM (50°)	-	0,96	0,96
ηcol	%	60	63
Annual thermal energy per collector @Wurzburg - Tm=50°C (Qcol)	kWh/year	1154	1461
Overall dimensions (HxWxD)	mm	1.230x1.930x86	1.260x2.160x86
Code	-	PSFPM23000	PSFPM27000

HYDRAULIC CONNECTION ACCESSORIES

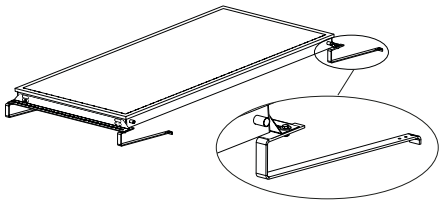
Kit contents image	Description	Configuration table – No. of collectors								Code
		1	2	3	4	5	6	7	8	
	Hydraulic connection kit for a single collector	1	1	1	1	1	1	1	1	PSKITFPM00
	Connection kit for 2 collectors	-	1	2	3	3	4	5	6	PSKITFPM01
	Series connection kit (>4 collettors)	-	-	-	-	1	1	1	1	PSKITFPM02

COLLETTORS ARRANGEMENT	
	Up to 4 collectors connected in parallel
	5 collectors with parallel/series connection
	6 collectors with parallel/series connection
	7 collectors with parallel/series connection
	8 collectors with parallel/series connection

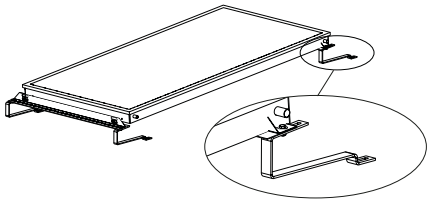
MOUNTING STRUCTURES FOR PITCHED ROOF FOR FPM 27 COLLECTOR



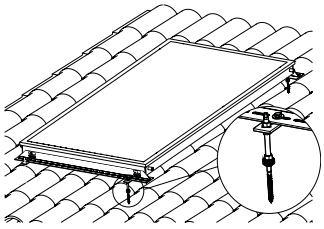
Description	Collector	Code*
Single collector fixing kit, for installation on the roof	FPM 27	PSKMVL2506



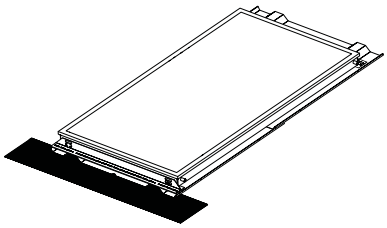
Description	Collector	Code*
Single collector fixing kit, brackets for roofs with wood-blocks	FPM 27	PSKMVL2507



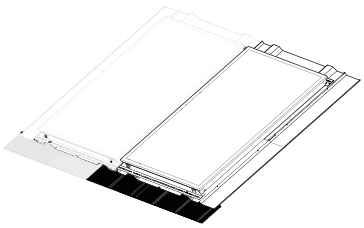
Description	Collector	Code*
Single collector fixing kit, brackets for roofs without wood-blocks	FPM 27	PSKMVL2508



Description	Collector	Code*
Single manifold mounting kit, with screws (maximum tile height: 70 mm)	FPM 27	PSKMVL2510



Description	Collector	Code*
Single manifold built-in kit	FPM 27	PSKITCOP18



Description	Collector	Code*
Additional manifold built-in kit	FPM 27	PSKITCOP19

(*) Product available while stocks last

MOUNTING STRUCTURES FOR PITCHED ROOF FOR FPM 23 COLLECTOR



Description	Collector	Code
Bars for single collector for pitched roof	FPM 23	PSKMFP2303

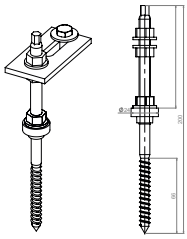


Description	Collector	Code
Bars for 2 collectors for pitched roof	FPM 23	PSKMFP2304

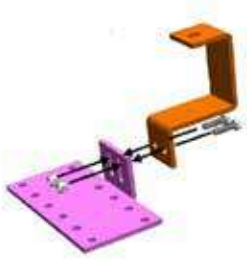


Description	Collector	Code
Aluminum bar alignment kit	FPM 23	PSKALLBA00

ROOF ANCHORING

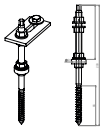


Description	Combination	Code
Kit of 4 double-thread screws	Bars for single collector	PSKITFIS00
Kit of 6 double-thread screws	Bars for 2 collectors	PSKITFIS01



Description	Combination	Code
Kit of 4 adjustable hooks (includes wood screws for fixing plates to the roof)	Bars for single collector	PSKITFIS02
Kit of 6 adjustable hooks (includes wood screws for fixing plates to the roof)	Bars for 2 collectors	PSKITFIS03

CONFIGURATION TABLE FOR PITCHED ROOF STRUCTURES WITH DOUBLE-THREAD SCREW ANCHORING

ANCHORING TYPE	COLLECTOR MODEL	CODES	NUMBER OF COLLECTORS							
			1	2	3	4	5	6	7	8
	FPM 23	PSKMFP2303	1	-	1	-	1	-	1	-
		PSKMFP2304	-	1	1	2	2	3	3	4
		PSKALLBA00	-	-	1	1	2	2	3	3
		PSKITFIS00	1	-	1	-	1	-	1	-
		PSKITFIS01	-	1	1	2	2	3	3	4

CONFIGURATION TABLE FOR PITCHED ROOF STRUCTURES WITH ADJUSTABLE HOOK ANCHORING

ANCHORING TYPE	COLLECTOR MODEL	CODES	NUMBER OF COLLECTORS							
			1	2	3	4	5	6	7	8
	FPM 23	PSKMFP2303	1	-	1	-	1	-	1	-
		PSKMFP2304	-	1	1	2	2	3	3	4
		PSKALLBA00	-	-	1	1	2	2	3	3
		PSKITFIS02	1	-	1	-	1	-	1	-
		PSKITFIS03	-	1	1	2	2	3	3	4

FLAT ROOF MOUNTING STRUCTURES FOR FPM 23 AND FPM 27 COLLECTORS



Description	Collector	Code
Single collector kit for flat roof	FPM 23	PSKMFP2301
	FPM 27	PSKMFP2701



Description	Collector	Code
Two-collector kit for flat roof:	FPM 23	PSKMFP2302
	FPM 27	PSKMFP2702



Description	Collector	Code
Aluminum bar alignment kit	FPM 23	PSKALLBA00
	FPM 27	

FLAT ROOF CONFIGURATION TABLE FPM 23									
COLLECTOR MODEL	FLAT ROOF KIT CODES	NUMBER OF COLLECTORS							
		1	2	3	4	5	6	7	8
FPM 23	PSKMFP2301	1	-	1	-	1	-	1	-
	PSKMFP2302	-	1	1	2	2	3	3	4
	PSKALLBA00	-	-	1	1	2	2	3	3

FLAT ROOF STRUCTURE CONFIGURATION TABLE FPM 27									
COLLECTOR MODEL	FLAT ROOF KIT CODES	NUMBER OF COLLECTORS							
		1	2	3	4	5	6	7	8
FPM 27	PSKMFP2701	1	-	1	-	1	-	1	-
	PSKMFP2702	-	1	1	2	2	3	3	4
	PSKALLBA00	-	-	1	1	2	2	3	3

SULPACK EVO

SOLAR KIT FOR FORCED CIRCUIT WITH HEAT INTEGRATION IN THE HOT WATER STORAGE TANK



- **Solar collectors**
- **High thermal insulation glazed hot water storage tank**
- **Two-way hydraulic unit with high efficiency solar pump, factory assembled**
- **Hydraulic and safety accessories**
- ES solar expansion vessel
- Hose with bracket for tanks
- Thermostatic mixing valve
- Propylene glycol for solar plants
- Sealing gaskets

The solar kit can be combined with wall-hung pre-mixed condensing boilers for sole heating. This solar kit requires you to position the hot water storage tank inside the building, preferably close to the heat power plant. By means of appropriate temperature probes which regulate its operation, a pump enables circulation of the liquid in the solar circuit.

Technical data	um	FPM 23 - 200	FPM 23 - 300	FPM 27 - 200	FPM 27 - 300
Orientation	-	Vertical			
No. of Collectors	num.	1	2	1	2
Collector	-	FPM 23		FPM 27	
Hot water storage tank	-	WHPS BZ 200 DS	WHPS BZ 300 DS	WHPS BZ 200 DS	WHPS BZ 300 DS
Hot water storage tank energy efficiency class	-	B	B	B	B
Usable tank volume [Vu]	l	196	273	196	273
Tank dispersion [S]	W	51	63	51	63
Back up volume [V_{bu}]	l	67	85	67	85
Solar unit	-	2 ways			
Q_{nonsol} (M)	kWh	800	693	708	662
Q_{nonsol} (L)	kWh	1736	1156	1556	991
Q_{nonsol} (XL)	kWh	3179	2249	2943	1937
Q_{nonsol} (XXL)	kWh	4304	3215	4045	2835
Solar pump consumption [solpump]	W	45			
Q_{aux}	kWh	91			
Standby consumption [solsb]	W	0,08			
Expansion vessel	-	ES18			
Propylene glycol to be mixed	kg	10			
Code	-	PSPACKEV10	PSPACKEV11	PSPACKEV12	PSPACKEV13

Excluded: Roof mounting systems (to be chosen according to collector type), hydraulic connection pipes, temperature sensors, and solar controller, which—if required—must be selected from the solar accessories list, unless a Fondital boiler already equipped for solar management is used.

SULPACK PRO

SOLAR KIT FOR FORCED CIRCUIT WITH HEAT INTEGRATION IN THE HOT WATER STORAGE TANK



- **Solar collectors**
- **Glazed hot water storage tank**
- **Two-way hydraulic unit with high-efficiency solar pump**
- **Hydraulic and safety accessories**
- ES solar expansion vessel
- RS additional solar tank
- Hose with bracket for tanks
- Thermostatic mixing valve
- Propylene glycol for solar plants
- Sealing gaskets

The solar kit can be combined with wall-hung pre-mixed condensing boilers for sole heating. This solar kit requires you to position the hot water storage tank inside the building, preferably close to the heat power plant. By means of appropriate temperature probes which regulate its operation, a pump enables circulation of the liquid in the solar circuit.

Technical data	um	FPM 23 - 200	FPM 23 - 300	FPM 23 - 500	FPM 27 - 200	FPM 27 - 300	FPM 27 - 500
Orientation	-	Vertical					
No. of Collectors	num.	1	2	3	1	2	3
Collector	-	FPM 23			FPM 27		
Hot water storage tank	-	WHPS BNF 200 DS	WHPS BNF 300 DS	WHPS BNF 500 DS	WHPS BNF 200 DS	WHPS BNF 300 DS	WHPS BNF 500 DS
Hot water storage tank energy efficiency class	-	C	C	C	C	C	C
Usable tank volume [Vu]	l	196	273	475	196	273	475
Tank dispersion [S]	W	67	85	112	67	85	112
Back up volume [V_{bu}]	l	67	85	130	67	85	130
Solar unit	-	2 ways					
Q_{nonsol} (M)	kWh	890	838	982	807	811	970
Q_{nonsol} (L)	kWh	1805	1287	1197	1633	1121	1126
Q_{nonsol} (XL)	kWh	3234	2356	1848	3004	2055	1576
Q_{nonsol} (XXL)	kWh	4353	3309	2586	4099	2941	2202
Solar pump consumption [solpump]	W	45					
Q_{aux}	kWh	91					
Standby consumption [solsb]	W	0,08					
Expansion vessel	-	ES 12	ES 18	ES 25	ES12	ES 18	ES 25
Additional tank	-	RS 5	RS 5	RS 8	RS5	RS5	RS 8
Propylene glycol to be mixed	kg	10					
Code	-	PSPACKEX12	PSPACKEX13	PSPACKEX14	PSPACKEX15	PSPACKEX16	PSPACKEX17

Excluded: Roof mounting systems (to be chosen according to collector type), hydraulic connection pipes, temperature sensors, and solar controller, which—if required—must be selected from the solar accessories list, unless a Fondital boiler already equipped for solar management is used.

fondital

SULPACK EASY

SOLAR KIT FOR FORCED CIRCUIT WITHOUT HEAT INTEGRATION IN THE HOT WATER STORAGE TANK



- **Solar collectors**
- **Glazed hot water storage tank**
- **One-way hydraulic unit with high efficiency solar pump**
- **Hydraulic and safety accessories**
- Sealing gaskets
- ES solar expansion vessel
- Hoses with brackets for tanks
- Thermostatic mixing valve
- Propylene glycol for solar plants

The solar kit can be combined to wall-hung combination boilers with instantaneous production of domestic hot water, using the solar kit for instantaneous boilers. The solar kit do not include the retainers for roof installation, to be chosen among the systems specified for the different types of collectors and connection pipes.

Technical data	-	FPM 23 - 200	FPM 23 - 300	FPM 23 - 500	FPM 27 - 200	FPM 27 - 300	FPM 27 - 500
Orientation	-	Vertical					
No. of Collectors	num.	1	2	3	1	2	3
Collector	-	FPM 23			FPM 27		
Hot water storage tank	-	WHPS BNF 200 SS	WHPS BNF 300 SS	WHPS BNF 500 SS	WHPS BNF 200 SS	WHPS BNF 300 SS	WHPS BNF 500 SS
Hot water storage tank energy efficiency class	-	C	C	C	C	C	C
Usable tank volume [Vu]	l	196	273	475	196	273	475
Tank dispersion [S]	W	67	85	112	67	85	112
Solar unit	-	1 way					
Q_{nonsol} (M)	kWh	809	786	936	742	767	930
Q_{nonsol} (L)	kWh	1674	1202	1139	1517	1056	1078
Q_{nonsol} (XL)	kWh	3069	2225	1751	2852	1944	1497
Q_{nonsol} (XXL)	kWh	4174	3155	2460	3931	2804	2099
Solar pump consumption [solpump]	W	45					
Q_{aux}	kWh	91					
Standby consumption [solsb]	W	0,08					
Expansion vessel	-	ES 12	ES 18	ES 25	ES 12	ES 18	ES 25
Propylene glycol to be mixed	kg	10					
Code	-	PSPACKEY22	PSPACKEY23	PSPACKEY24	PSPACKEY25	PSPACKEY26	PSPACKEY27

Excluded: Roof mounting systems, which must be selected from those specified for the different collector types; connection pipes; temperature sensors; and the solar controller, which—if required—must be chosen from the solar accessories list, unless a Fondital boiler equipped for solar system management is used (applicable only to combi boilers).



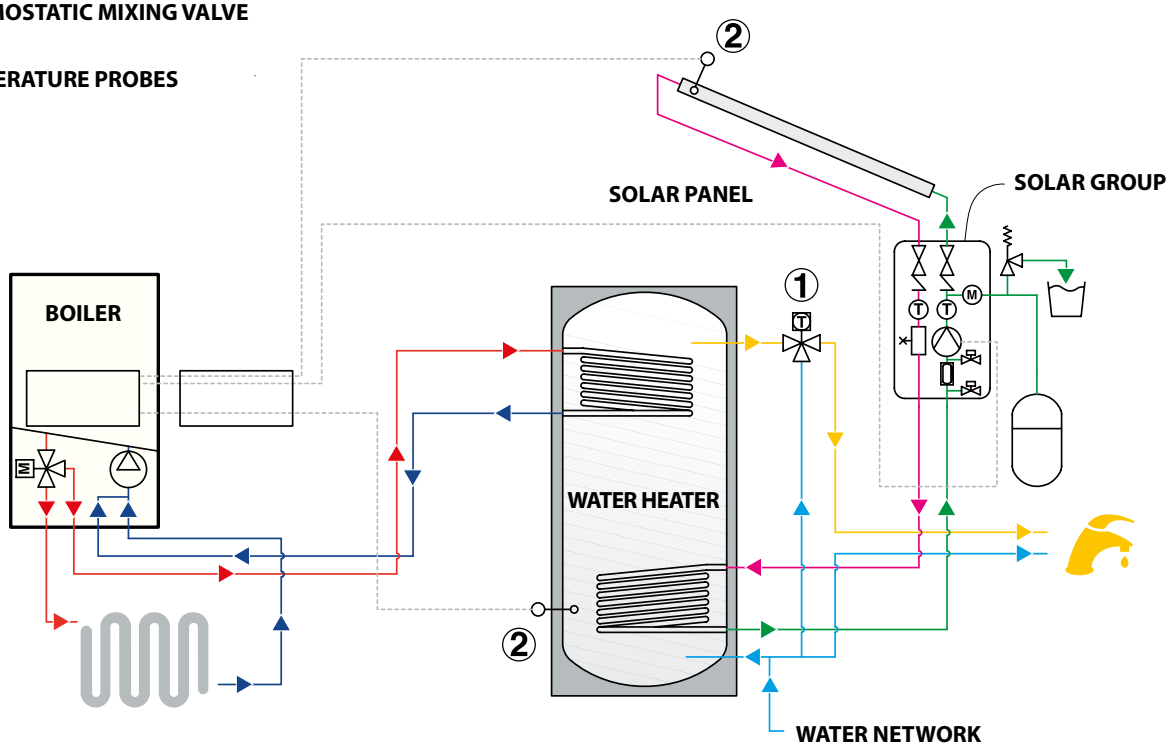
The Solar Kit for instant boilers allows you to bypass the boiler if water temperature from the solar tank is higher than 48 °C. It includes one unit integrating both a thermostatic deviating valve and an adjustable thermostatic mixing valve.
If you order the solar kit for boiler, when ordering a SULPACK EASY KIT, the mixing valve will not be supplied and will automatically be eliminated from the cost of the kit.
For solar kits for combination boilers, refer to page 251

EXAMPLES

Connection to a boiler with integrated deviating valve
Sulpack Pro / Sulpack Evo

① THERMOSTATIC MIXING VALVE

② TEMPERATURE PROBES

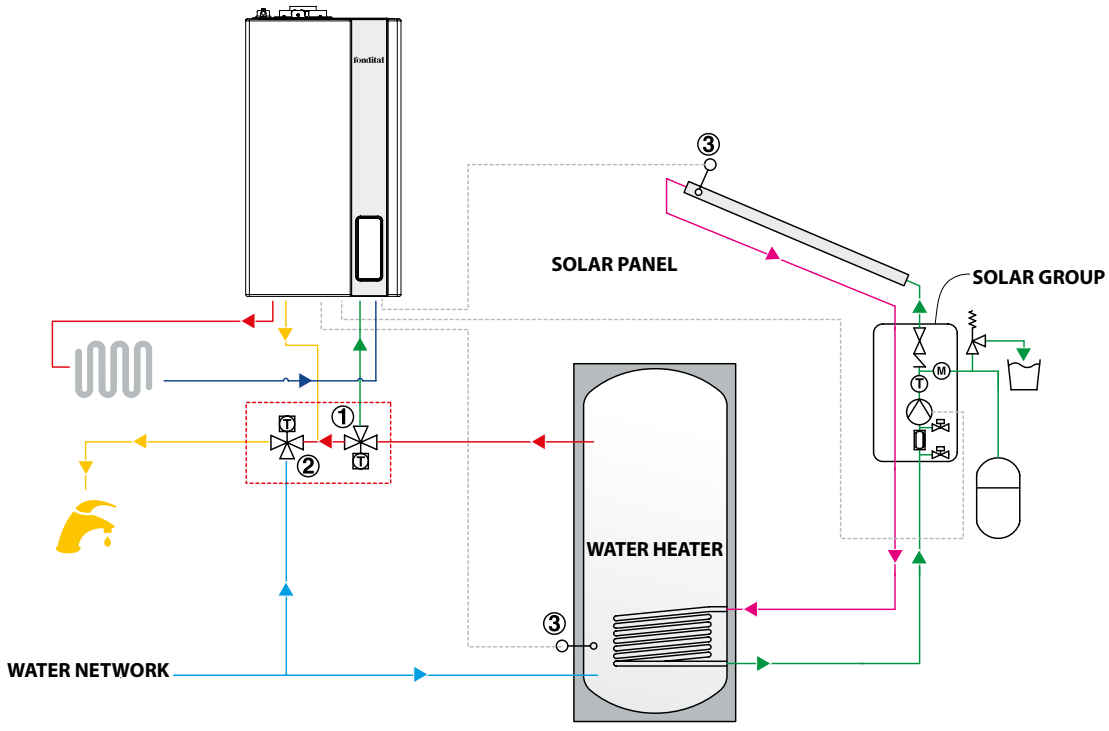


Connection to combination instantaneous boiler
Sulpack Easy

① THERMOSTATIC DIVERTER VALVE

② THERMOSTATIC MIXING VALVE

③ TEMPERATURE PROBES



SULPACK NATURAL FPM

NATURAL CIRCULATION SOLAR SYSTEM



- **Solar collectors**
- **Enameled double-jacket storage tank**
- **Mounting system for flat and pitched roofs**
- **Hydraulic connection accessories**
- **Auxiliary electric heating element included**
- Safety valves for heat transfer circuit
- Double magnesium anode
- Domestic cold water input check and safety valve
- Solar circuit expansion vessel (1 L) included

The system can be combined with Fondital combi boilers with instantaneous domestic hot water production using the solar kit for instantaneous boilers.The solar kit allows bypassing the boiler when the solar tank water temperature exceeds 48°C.

Technical data	um	SULPACK NATURAL FPM 160 - 23	SULPACK NATURAL FPM 200 - 27	SULPACK NATURAL FPM 300 - 54
Models	**um**	**FPM 23**	**FPM 27**	**FPM 27**
Collectors	num.	1	1	2
Collector structure material	-	Powder-coated aluminum		
Absorber material	-	Aluminum with selective coating		
Glass	type	Low-iron tempered prismatic glass		
Glass thickness	mm	3,2		
Insulation	type	mineral wool		
Insulation thickness	mm	40		
Size (W x L x H) (single collector)	mm	1230x1930x86	1260x2160x86	1260x2160x86
Overall empty weight (single collector)	kg	40,6	46,1	46,1
Fluid content (per collector)	litres	1,69	1,81	1,81
Gross surface (single collector) (A_{sol})	m²	2,37	2,72	2,72
Aperture surface (single collector) (A_a)	m²	2,23	2,57	2,57
η0	-	0,76	0,77	0,77
α1	W/(m²K)	3,59	3,15	3,15
α2	W/(m²K²)	0,014	0,012	0,012
IAM	-	0,96	0,96	0,96
η_{col}	%	60	63	63
Stagnation temperature	°C	190,5	190,5	190,5
Annual thermal energy (single collector) @Wurzburg - Tm=50°C [Qcol]	kWh/year	1154	1461	1461
Storage Tank Models	**-**	**WHPS BI 160**	**WHPS BI 200**	**WHPS BI 300**
hot water storage tank energy efficiency class	-	C	C	C
Dissipation S	W	57	63	85
Hot water storage	litres	148	189	289
Heat exchanger	-	jacket		
Heat transfer fluid capacity	litres	8,8	13,1	18,9
Insulation thickness	mm	50		
Maximum operating pressure DHW circuit	bar	10		
Maximum operating pressure solar circuit	bar	2,5		
Internal finishing	type	enamelling		
Corrosion protection	type	Anodic (double anode - Mg)		
Empty weight	kg	68	92	132
Electric resistance (as standard)	W	1500	1500	1500
Connections	-	G1/2	G1/2	G 3/4
Code	-	PSPACTER13	PSPACTER14	PSPACTER15

It can be combined with the following models: ITACA KC - ANTEA KC - ANTEA NEXT KC - ANTEA PRO CTN

KIT CONTENTS	
SULPACK NATURAL FPM 160 - 23	
Component	**Quantity**
FPM 23 Collector	1
WHPS BI 160 Tank	1
Installation kit 160 for 1 FPM 23 panel: - structure for flat roof and pitched roof - insulated corrugated stainless steel pipes and connection fittings - solar circuit safety valve - DHW inlet valve complete with non-return valve – tap and safety valve - DHW outlet temperature and pressure safety valve	1
2 L Glycol tank	1
1 L Solar expansion vessel	1
SULPACK NATURAL FPM 200 - 27	
Component	**Quantity**
Collector FPM 27	1
Storage Tank WHPS BI 200	1
Installation kit 200 for 1 FPM 27 panel - structure for flat roof and pitched roof - insulated corrugated stainless steel pipes and connection fittings - solar circuit safety valve - DHW inlet valve complete with non-return valve – tap and safety valve - DHW outlet temperature and pressure safety valve	1
2 L Glycol tank	1
1 L Solar expansion vessel	1
SULPACK NATURAL FPM 300 - 54	
Component	**Quantity**
Collector FPM 27	2
Storage Tank WHPS BI 300	1
Installation kit 300 for 2 FPM 27 panels - structure for flat roof and pitched roof - insulated corrugated stainless steel pipes and connection fittings - solar circuit safety valve - DHW inlet valve complete with non-return valve – tap and safety valve - DHW outlet temperature and pressure safety valve	1
3 L Glycol tank	1
1 L Solar expansion vessel	1

ACCESSORIES - MAINTENANCE KITS

Description	Contents	Code
MANDATORY ANNUAL MAINTENANCE KIT 160 - 200 L - YEARS 1 - 4	Antifreeze, silicone gasket, solar safety valve, magnesium anode	PSKITMAN00
MANDATORY ANNUAL MAINTENANCE KIT 300 L - YEARS 1 - 4		PSKITMAN01
MANDATORY ANNUAL MAINTENANCE KIT 160 - 200 L - YEARS 5 - 9	Antifreeze, solar safety valve	PSKITMAN02
MANDATORY ANNUAL MAINTENANCE KIT 300 L - YEARS 5 - 9		PSKITMAN03
RECOMMENDEN TRIENNIAL MAINTENANCE KIT 160 - 200 L	DHW inlet valve with non-return, stop valve, and safety valve	PSKITMAN04
RECOMMENDEN TRIENNIAL MAINTENANCE KIT 300 L		PSKITMAN05

COMPONENTS AVAILABLE SEPARATELY FOR LARGE-SURFACE INSTALLATIONS
RECOMMENDED ONLY FOR CLIMATIC ZONES "E" AND "F"

160L TANK + FPM 27 COLLECTOR		
Component	**Quantity**	**Code**
Collector FPM 27	1	PSFPM27000
WHPS BI 160 Tank	1	PSBOLLV079
Installation kit 160 for 1 FPM 27 panel	1	PSKITINS03
2 L Glycol tank	1	PSPROSOL06
1 L Solar expansion vessel	1	PSVASO0019
200 L TANK + 2 FPM 23 COLLECTORS		
Component	**Quantity**	**Code**
FPM 23 Collector	2	PSFPM23000
Storage Tank WHPS BI 200	1	PSBOLLV080
Installation kit 200 for 2 FPM 23 panels	1	PSKITINS04
2 L Glycol tank	1	PSPROSOL06
1 L Solar expansion vessel	1	PSVASO0019
300 L Tank + 3 FPM 27 COLLECTORS		
Component	**Quantity**	**Code**
Collector FPM 27	3	PSFPM27000
WHPS BI 300 reinforced tank	1	PSBOLLV077
Installation kit 300 for 3 FPM 27 panels	1	PSKITINS05
2 L Glycol tank	2	PSPROSOL06
1 L Solar expansion vessel	1	PSVASO0019

SOLAR PUMP GROUP RS1, ONLY RETURN



Flow regulator with 0.5 to 15 l/min flow meter with integrated loading system

- Ball tap with built-in return thermometer and check valve
- Insulation in black EPP
- High efficiency solar circulation pump
- Solar safety valve calibrated at 6 bar
- Pressure gauge with 10 bar scale
- Expansion tank connection G 3/4
- Wall-mounted, steel bracket included

SOLAR UNIT RS1		
Flow rate adjustment	l/min.	0,5 ÷ 15
Max. head	m	7,5
Max. power	w	45
Code		PSGRUP0014

SOLAR PUMP GROUP MRS3, FLOW AND RETURN



Flow regulator with 0.5 to 15 l/min flow meter with integrated loading system

- Built-in degasser with manual bleed valve
- Ball taps with built-in flow and return thermometers and check valve
- Insulation in black EPP
- High efficiency solar circulation pump
- Solar safety valve calibrated at 6 bar
- Pressure gauge with 10 bar scale
- Expansion tank connection G 3/4
- Wall-mounted, steel bracket included

SOLAR UNIT MRS3		
Flow rate adjustment	l/min.	0,5 ÷ 15
Max. head	m	7,5
Max. power	w	45
Code		PSGRUP0015

CIRCULATION PUMPS

High-efficiency circulation pumps for solar plants



SOLAR CIRCULATION PUMP C6		
Maximum head	m	5,4
Max. power	w	49
Fan	num.	3
Fittings	-	41
Maximum ambient temperature	°C	60
Maximum temperature of solar fluid	°C	110
Code		PSCIRCOLA7

ADDITIONAL TANKS

Diaphragm-free tank with tank protection feature
Colour White



ADDITIONAL TANKS		RS 5	RS 8	RS 12
Capacity	litres	5	8	12
Diameter	mm	160	200	270
Height	mm	270	280	264
Fitting	-	2 x G ¾ M		
Max. pressure	bar	10		
Code		PSVASO0009	PSVASO0010	PSVASO0011

EXPANSION VESSELS

Diaphragm for solar fluid for T max 100 °C.
Colour White



EXPANSION VESSELS		ES 12	ES 18	ES 25	ES 35	ES 50	ES 80	ES 100	ES 200
Capacity	litres	12	18	25	35	50	80	105	200
Diameter	mm	270	270	300	380	380	450	500	600
Height	mm	264	350	392	377	525	608	665	812
Fitting	-	G ¾					G 1		
Max. pressure	bar	10							
Preload	bar	2,5							
Code		PSVASO0001	PSVASO0002	PSVASO0003	PSVASO0004	PSVASO0005	PSVASO0006	PSVASO0007	PSVASO0008

ACCESSORIES FOR TANKS



Item	Description	Code
	STES 5 - 25: Universal mounting bracket for expansion vessels and additional tanks up to a capacity of 25 litres.	PSVASO0012
	STES 5 - 18: Wall mounting bracket with clamp for additional tanks and expansion vessels up to a capacity of 18 litres	PSVASO0014
	STES 35 - 50: Quick wall-mounting bracket for expansion vessels up to a capacity between 35 and 50 litres.	PSVASO0015
	FLEX 600: Hose for solar tanks, 600 mm long.	PSVASO0016
	STES 12 - 50 w/valve: Wall mounting bracket with double shut-off fitting for expansion vessels up to a capacity of 50 litres. Allows tank control without emptying the system.	PSVASO0017

THERMOSTATIC MIXING VALVE



- Bronze external body
- Internal parts in special anti-scale plastic
- Automatic shut-off if no mixing cold water is available

THERMOSTATIC MIXING VALVE		
Fittings	-	G 1 M
Temperature range	°C	35 - 50
Maximum operating temperature	°C	100
Maximum flow rate	l/h	1500
Code		PSVALMIX00

THERMOSTATIC MIXING VALVE



- Brass external body
- Automatic shut-off if no mixing cold water is available

THERMOSTATIC MIXING VALVE		
Fittings	-	G 3/4 M
Temperature range	°C	30 - 60
Maximum operating temperature	°C	85
Maximum flow rate	l/h	1000
Code		PSVALMIX01

THREE-WAY DEVIATING VALVE

Three-way deviating valve for solar plants with 3-wire auxiliary contact



THREE-WAY DEVIATING VALVE		
Fittings	-	G ¾ M
Maximum operating temperature	°C	160
Code		PSVALDEV01

CONCENTRATED SOLAR PROTECTION LIQUID

Concentrated monopropylene glycol-based antifreeze fluid, to be diluted in water



CONCENTRATED SOLAR PROTECTION LIQUID					
Quantity	kg	10	10	10	10
Percentage of protection liquid in the system	%	20	25	30	45
Minimum temperature	°C	-8	-12	-15	-28
Code		PSPROSOL04			

PIPES FOR SOLAR PLANTS



Splittable double flexible pipe system in AISI 316 L stainless steel with insulation coating in EPDM closed cell foam

- External protection case in black polyethylene
- Silicone cable for two-wire collector probe (maximum operating temperature in continuous duty: 280°C)
- Maximum resistance to temperature values of 175°C for short periods
- It includes 4 swivel nut connectors, 4 seals, 4 O-rings
- Hose flaring is made using a steel washer and a brass nipple, which are included in the kit

		Stainless steel Tuboflex 12/20 (*)	Stainless steel Tuboflex 12/25 (*)	Stainless steel Tuboflex 16/20 (*)	Stainless steel Tuboflex 16/25 (*)
Diameter	mm	12	12	146	16
Length	m	20	25	20	25
Insulation thickness	mm	13			
Maximum working temperature in continuous duty	°C	125			
Code		PSTUBI0015	PSTUBI0016	PSTUBI0017	PSTUBI0018

(*) Product available while stocks last

FITTING FOR SOLAR PLANTS



- The FITTING KIT includes 4 swivel nut connectors, 4 seals, 4 O-rings.
- Hose flaring is made using a steel washer and a brass nipple, which are included in the kit
- The NIPPLE KIT includes brass nipples in 3-piece package

FITTINGS FOR SOLAR PLANTS	Fitting kit for Tuboflex SS 12 (*)	Fitting kit for Tuboflex SS 16 (*)	Nipple kit G ½ for Tuboflex SS 12 (*)	Nipple kit G ¾ for Tuboflex SS 16 (*)
Code	PSTUBI0019	PSTUBI0020	PSTUBI0021	PSTUBI0022

(*) Product available while stocks last

SOLAR KIT FOR COMBINATION BOILERS



0KITSOLC07

Solar kit for combination instantaneous boilers; it can be combined with the boilers listed below for connection to the solar plants featuring forced circuit and natural circulation, with heat not integrated in the water heater SULPACK EASY and SULPACK NATURAL. The kit allows you to bypass the boiler if water temperature from the solar tank is higher than 48 °C and to adjust the maximum temperature of water delivered at the users/use points. Mixer valve adjustment interval: 30 - 56°C. Limit temperature for flow stop in case of lack of cold water: 60°C.Minimum working pressure: 0.5 bar.Optimum working pressure: 1 - 10 bar.

Consisting of:

- One thermostatic deviating valve and one mixing valve
- Connection pipes
- Shut-off cocks:

ITACA KC ANTEA NEXT KC FORMENTERA CTN ANTEA CTN FORMENTERA CTFS ANTEA CTFS	
System connection	Rear connections
Code	0KITSOLC07

TEMPERATURE PROBE



PT 1000 temperature probe for solar plants, suitable for all models of solar control unit

Heat paste supplied

SOLAR PROBE		
Bulb diameter	mm	6
Cable length	mm	2,5
Code		PSPTMILL00

SG2 SOLAR CONTROL UNIT



Control unit for managing 10 types of systems

- Load of a twin-coil hot water storage tank with heat being integrated from the boiler
- Management of a combined hot water storage tank
- Possibility to have two arrays of collectors
- Pre-set for thermal discharge
- Five probe inputs
- Two relay outputs
- Two adjustable temperature differentials
- Hysteresis settings
- One pulse input for heat metering
- Pump anti-seize function
- Possibility to control circulation pumps in PWM or 0-10V
- Wide LCD display showing system layout and probe current temperatures
- Charts showing the trend of the probe temperature reading in time

SOLAR ELECTRONIC CONTROL UNITS	SG2
Code	PSCENSO004

The supply includes collector probe and hot water storage tank probe (both PT 1000) as well as the wall-mounting base.

HOT WATER STORAGE TANKS

HOT WATER STORAGE TANKS

WHPS BNF SS 200 - 500 page 256
WHPS BNF DS 200 - 500 page 257
WHPS BNF SS E 200 - 500 page 258
WHPS BNF DS E 300 page 260
WHPS BA SS page 262
WHPS BZ DS page 263
WHPS BA DS page 264

WHPS BNF SS

SOLAR HOT WATER STORAGE TANK WITH SINGLE COIL



- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode
- DHW thermometer
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)



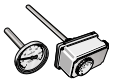
Available in the following capacities (l):

from 200 to 500

WHPS BNF SS is a hot water storage tank that can be combined with boilers for CH only, to produce domestic hot water, in porcelain-glass steel with single coil.

Model	Code	Dissipation S	Hot water storage	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres		mm	mm	kg
BNF 200 SS	PSBOLLV061	67	196	C	1215	600	90
BNF 300 SS	PSBOLLV062	85	273	C	1615	600	115
BNF 500 SS	PSBOLLV063	112	475	C	1705	750	155

Model		BNF 200 SS	BNF 300 SS	BNF 500 SS
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Coil area	m2	0,7	1,2	1,8
Coil power (ΔT 35 K)	kW	19	29	43
Tilting height	mm	1340	1735	1820
Insulation thickness	mm	50	50	50

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02

WHPS BNF DS

SOLAR HOT WATER STORAGE TANK WITH DOUBLE COIL



- **Easy installation**
- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode
- DHW thermometer
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)



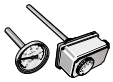
Available in the following capacities (l):

from 300 to 500

WHPS BNF DS is a hot water storage tank that can be combined with boilers for CH only, to produce domestic hot water, in porcelain-glass steel with double coil.

Model	Code	Dissipation S	Hot water storage	Backup volume	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres	Vbu		mm	mm	kg
BNF 300 DS	PSBOLLV065	85	273	85	C	1615	600	130
BNF 500 DS	PSBOLLV066	112	475	130	C	1705	750	170

Model		BNF 300 DS	BNF 500 DS
Nominal volume	litres	300	500
Maximum working pressure	bar	10	
Maximum working temperature	°C	95	
Auxiliary coil area	m2	0,8	0,9
Solar coil area	m2	1,2	1,8
Coil power (ΔT 35 K)	kW	19	23
Solar coil power (ΔT 35 K)	kW	29	43
Tilting height	mm	1735	1820
Insulation thickness	mm	50	50

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02

WHPS BNF SS E

GLASS-PORCELAIN STEEL SINGLE-COIL BOILER COMBINABLE WITH HEATING-ONLY BOILERS FOR DOMESTIC HOT WATER PRODUCTION



- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- **Thermometer and holders for probe included in the supply**
- **Magnesium protection anode**
- **DHW recirculation**
- **Electric auxiliary heating element set-up**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- Glass-porcelain interior
- Grey stiff polystyrene external case

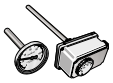


Available in the following capacities (l):

from 200 to 500

Model	Code	Dissipation S	Hot water storage	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres		mm	mm	kg
WHPS BNF 200 SS E	PSBOLLV071	57	189	B	1170	600	54
WHPS BNF 300 SS E	PSBOLLV072	67	273	B	1659	650	77
WHPS BNF 500 SS E	PSBOLLV073	108	484	C	1710	750	112

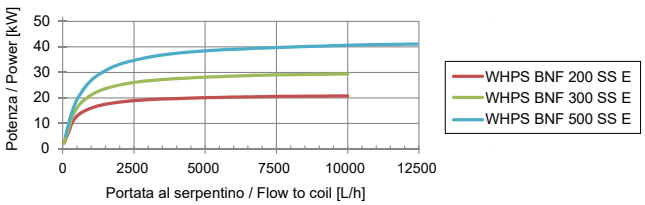
Model		BNF 200 SS E	BNF 300 SS E	BNF 500 SS E
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Coil area	m2	0,7	1,05	1,45
Coil power (ΔT 35 K)	kW	See graphs		
Tilting height	mm	1320	1790	1870
Insulation thickness	mm	50	75	50

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02

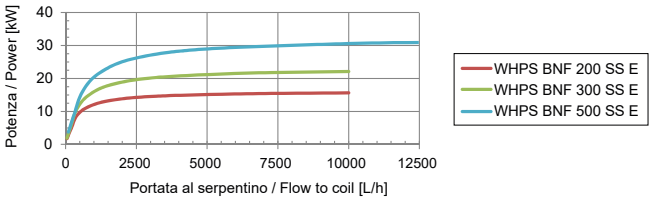
Potenza scambiata / Exch. power

$T_{in,coil}$ = 80 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



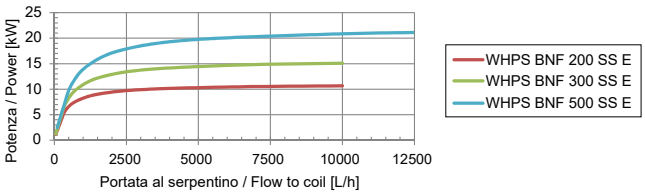
Potenza scambiata / Exch. power

$T_{in,coil}$ = 70 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



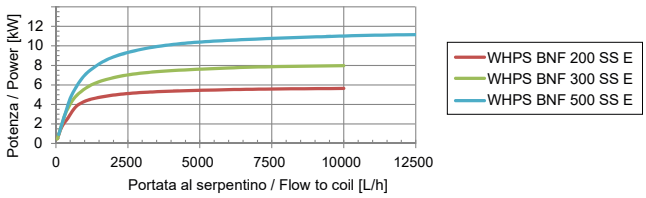
Potenza scambiata / Exch. power

$T_{in,coil}$ = 60 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C

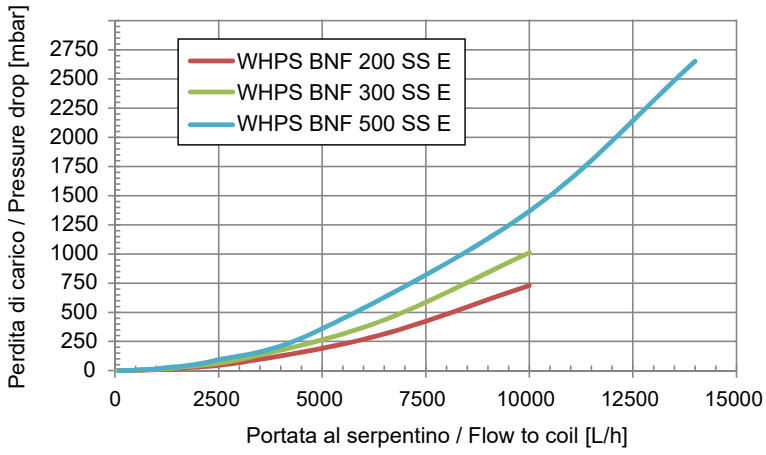


Potenza scambiata / Exch. power

$T_{in,coil}$ = 50 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



Perdite di carico sul serpentino / Coil pressure drop



WHPS BNF DS E

GLASS-PORCELAIN STEEL DOUBLE-COIL BOILER COMBINABLE WITH HEATING-ONLY BOILERS FOR DOMESTIC HOT WATER PRODUCTION



- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- **Thermometer and holders for probe included in the supply**
- **Magnesium protection anode**
- **DHW recirculation**
- **Electric auxiliary heating element set-up**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- Glass-porcelain interior
- Grey stiff polystyrene external case
- Easy installation

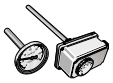


Available in the following capacities (l):

from 200 to 500

Model	Code	Dissipation S	Hot water storage	Backup volume	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres	Vbu		mm	mm	kg
WHPS BNF 300 DS E	PSBOLLV075	67	267	118	B	1659	650	94

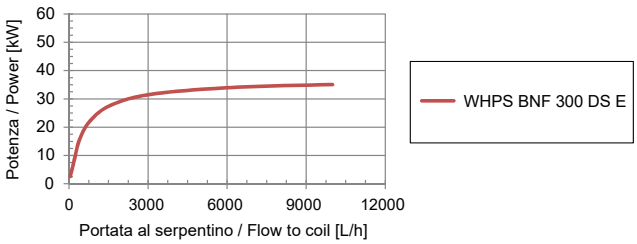
Model		BNF 200 DS E	BNF 300 DS E	BNF 500 DS E
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Auxiliary coil area	m2	0,6	0,75	0,9
Solar coil area	m2	0,8	1,2	1,8
Coil power (ΔT 35 K)	kW	See graphs		
Solar coil power (ΔT 35 K)	kW			
Tilting height	mm	1320	1790	1870
Insulation thickness	mm	50	75	50

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02

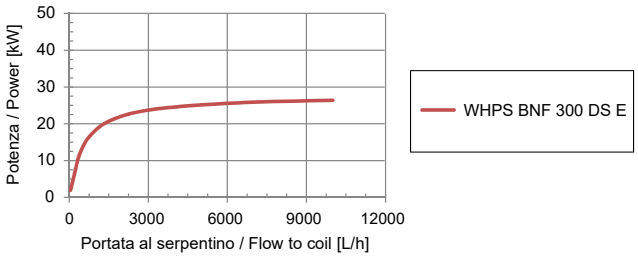
Potenza scambiata, scamb. solare
Exch. power, solar coil

$T_{in,coil}$ = 80 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



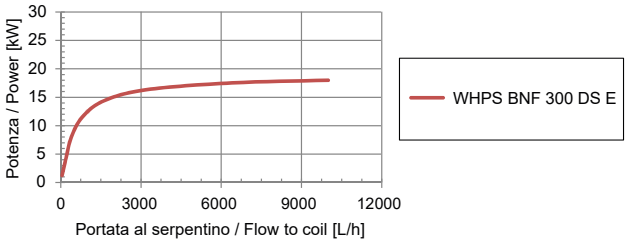
Potenza scambiata, scamb. solare
Exch. power, solar coil

$T_{in,coil}$ = 70 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



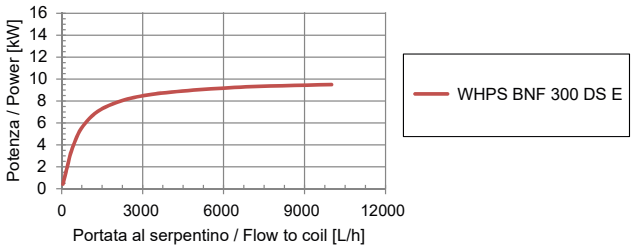
Potenza scambiata, scamb. solare
Exch. power, solar coil

$T_{in,coil}$ = 60 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



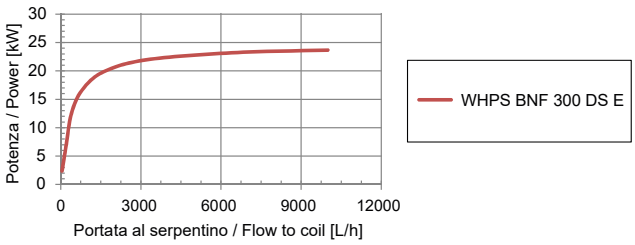
Potenza scambiata, scamb. solare
Exch. power, solar coil

$T_{in,coil}$ = 50 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



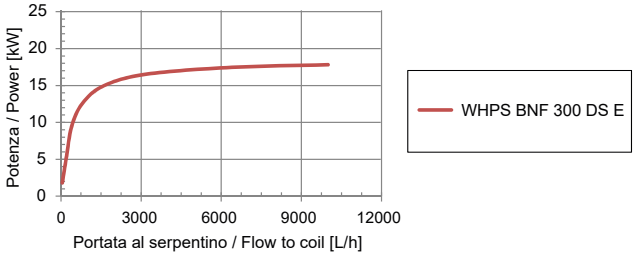
Potenza scambiata, scamb.integr.
Exch. power, integr.coil

$T_{in,coil}$ = 80 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



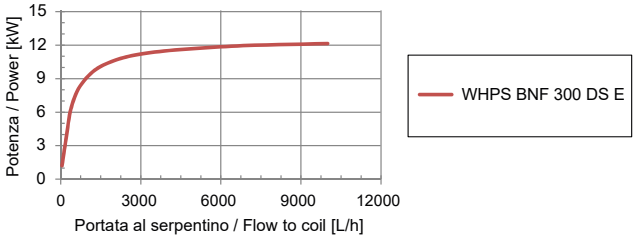
Potenza scambiata, scamb.integr.
Exch. power, integr.coil

$T_{in,coil}$ = 70 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



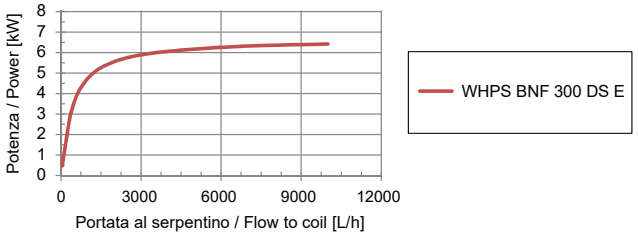
Potenza scambiata, scamb.integr.
Exch. power, integr.coil

$T_{in,coil}$ = 60 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C

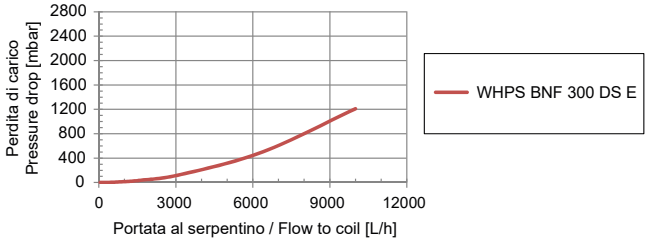


Potenza scambiata, scamb.integr.
Exch. power, integr.coil

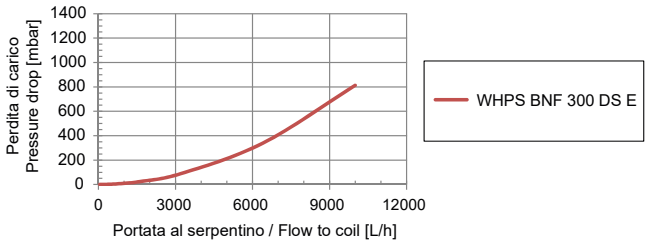
$T_{in,coil}$ = 50 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C



Perdite di carico sul serp. solare
Solar coil press. drop



Perdite di carico sul serp. integr.
Integr. coil press. drop



WHPS BA SS

HOT WATER STORAGE TANK THAT CAN BE COMBINED WITH HEATING-ONLY BOILERS FOR THE PRODUCTION OF DOMESTIC HOT WATER, IN PORCELAIN-GLASS STEEL WITH SINGLE COIL



- **Inspection flange**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Protection electrodes with electronic device for 1500 and 2000 litre capacity
- Front inspection flange
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)
- Optional kit with flange and heating element for 200 - 300 - 500 models

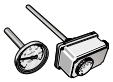


Available in the following capacities (l):

from 200 to 2000

Model	Code	Dissipation S	Hot water storage	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres		mm	mm	kg
BA 200 SS	PSBOLLV054	67	196	C	1215	600	90
BA 300 SS	PSBOLLV055	85	273	C	1615	600	115
BA 500 SS	PSBOLLV056	112	475	C	1705	750	155
BA 1000 SS AE	PSBOLLV069	142	930	complying with Regulation 814/2013	2205	990	245
BA 2000 SS AE	PSBOLLV070	186	1950	complying with Regulation 814/2013	2470	1300	410

Model		BA 200 SS	BA 300 SS	BA 500 SS	BA 1000 SS AE	BA 2000 SS AE
Nominal volume	litres	200	300	500	1000	2000
Maximum working pressure	bar	10				
Maximum working temperature	°C	95				
Coil area	m2	1,5	1,8	2,2	3,5	4,3
Coil power (ΔT 35 K)	kW	36	44	55	88	112
Tilting height	mm	1375	1735	1900	2250	2580
Insulation thickness	mm	50	50	50	100	100

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02
	Resistor with flange and single-phase power supply - 200/300/500 - 3kW	PSRESELE13

WHPS BZ DS

SOLAR HOT WATER STORAGE TANK WITH INTEGRATED SOLAR GROUP



- **Inspection flange**
- **Thicker 70 mm insulation**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Front inspection flange
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)
- High-efficiency solar circulation pump



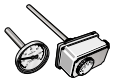
Available in the following capacities (l):

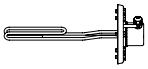
from 200 to 300

WHPS BZ DS is a hot water storage tank that can be combined with boilers for CH only, to produce domestic hot water, in porcelain-glass steel with double coil with integrated high-efficiency solar hydraulic unit.

Model	Code	Dissipation S	Hot water storage	Backup volume	Circulation pump power	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres	Vbu	W		mm	mm	kg
BZ 200 DS	AVBZ0MD200	51	196	67	45	B	1215	640	88
BZ 300 DS	AVBZ0MD300	63	273	85	45	B	1615	640	117

Model		BZ 200 DS	BZ 300 DS
Nominal volume	litres	200	300
Maximum working pressure	bar	10	
Maximum working temperature	°C	95	
Auxiliary coil area	m2	0,7	0,9
Solar coil area	m2	1	1,1
Coil power (ΔT 35 K)	kW	17	22
Solar coil power (ΔT 35 K)	kW	24	26
Tilting height	mm	1335	1725
Insulation thickness	mm	70	70

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02
	Resistor with flange and single-phase power supply - 200/300/500 - 3kW	PSRESELE13

fondital

WHPS BA DS

HOT WATER STORAGE TANK THAT CAN BE COMBINED WITH HEATING-ONLY BOILERS FOR THE PRODUCTION OF DOMESTIC HOT WATER, IN PORCELAIN-GLASS STEEL WITH DOUBLE COIL



- **Inspection flange**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Protection electrodes with electronic device for 1500 and 2000 litre capacity
- Front inspection flange
- DHW recirculation
- Three holders for temperature probes (standard for models 200 - 300 - 500), other models are preset for two holders (G 1/2 fitting)
- Ready for resistor with G 1 1/2 fitting for 1000 - 2000 models
- Optional kit with flange and heating element for 200 - 300 - 500 models

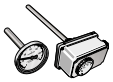


Available in the following capacities (l):

from 200 to 2000

Model	Code	Dissipation S	Hot water storage	Backup volume	Energy efficiency class	Overall height	Outer diameter	Gross weight
		W	litres	Vbu		mm	mm	kg
BA 200 DS	PSBOLLV050	67	196	67	C	1215	600	95
BA 300 DS	PSBOLLV051	85	273	85	C	1615	600	130
BA 500 DS	PSBOLLV052	112	475	130	C	1705	750	170
BA 1000 DS AE	PSBOLLV067	142	930	350	complying with Regulation 814/2013	2205	990	265
BA 2000 DS AE	PSBOLLV068	186	1950	840	complying with Regulation 814/2013	2470	1300	480

Model		BA 200 DS	BA 300 DS	BA 500 DS	BA 1000 DS AE	BA 2000 DS AE
Nominal volume	litres	200	300	500	1000	2000
Maximum working pressure	bar	10				
Maximum working temperature	°C	95				
Auxiliary coil area	m2	0,5	1,1	1,3	1,6	2,8
Solar coil area	m2	1,5	1,8	2,2	3	4,6
Coil power (ΔT 35 K)	kW	12	26	33	40	73
Solar coil power (ΔT 35 K)	kW	36	44	55	75	120
Tilting height	mm	1375	1735	1900	2250	2580
Insulation thickness	mm	50	50	50	100	100

Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	3 kW heating element kit 390 mm-long heating element	DKRESELE02
	Resistor with flange and single-phase power supply - 200/300/500 - 3kW	PSRESELE13

fondital

A new milestone for **sustainability**



fondital obtains EPD certification

The **world's first** for **die-cast aluminium radiators**

EPD
HYDRONIC RADIATOR

EPD
INTERNATIONAL EPD SYSTEM

This product has a Environmental Product Declaration (EPD) giving information about its environmental performance, content, and recycling, which has been verified according to the requirements of the International EPD System.

Registration number: **EPD-IES-0032370:001**
More information is available at: www.environdec.com/library/epd32370

EPD
ELECTRIC RADIATOR

EPD
INTERNATIONAL EPD SYSTEM

This product has a Environmental Product Declaration (EPD) giving information about its environmental performance, content, and recycling, which has been verified according to the requirements of the International EPD System.

Registration number: **EPD-IES-0032371:001**
More information is available at: www.environdec.com/library/epd32371

SYMBOLS



LOW THERMAL INERTIA
The low thermal inertia proper of aluminum, makes the Fondital Radiators the perfect heating body to achieve an installation capable of giving a quick and precise response to temperature variations in the room. This aspect, best highlighted in low temperature installations, is reflected in a better comfort and considerable savings both energetic and economic.



LOW WATER CONSUMPTION
Compared with steel or iron radiators, Fondital's aluminum radiators stand out for a lower water content. This characteristic allows the installation to reach the desired temperature quicker using a lower quantity of combustible at the same time, resulting once again in an energetic and economic saving for the user.



VERSATILITY
The technical properties of aluminum, make Fondital radiators perfectly compatible with all tecent technologies in heating production, as consensing boilers and heat pumps, prooving to be the perfect solution both in replacements and new buildings.



EASY TO STOCK AND INSTALL
Fondital radiators, assemblable at will based on different demands, allow you to have a more functional warehouse, in terms of number of section for battery. Furthermore, in case you need to adjust the energetic demand of a space, you'd be able to simply add or remove aluminum sections without any intrusive renovation work. Moreover, aluminum's lightweight allows an easier handling and installation of the radiator.



100% MADE IN ITALY QUALITY
Fondital manufactures its radiators in Italy, using just certificated raw materials. The aluminum used to create the radiators is provided directly in liquid state by Raffmetal, and respects the UNI EN 1676:1998 European legislations, with values of the chemical composition specific of EN AB 46100 and EN AB 46000 alloys.



CORROSION RESISTANCE
Durability tested at 200 hours in a saline environment, twice as long as required by UNI EN 442.



MADE FROM RECYCLED ALUMINUM AND 100% RECYCLABLE

The aluminum used for the production of Fondital die-cast radiators comes from recycled sources and is supplied in liquid form to avoid re-melting ingots, reducing energy consumption. It can be recycled 100%



DOUBLE PAINTING: ANAPHORESIS + EPOXY POWDERS

The signature look of Fondital's radiators is made possible by a double painting process that ensures the brightness and integrity of the radiator through time. In detail, applying the first coating of anaphoretic painting ensures a better grip throughout the surface of the radiator, making its quality and color unalterable. The second epoxy powder coating gives the standard white RAL 9010 color, making every single section the same shade and brightness, ensuring a perfect match even when assemblying sections form different batteries.



WORKING PRESSURE

Fondital's radiators are internationally thought and able to adapt to every market, this is reflected in their operating characteristics: Max working pressure 16 bar, testing pressure of 24 bar on 100% of production, burst pressure reached in laboratory of 60 bar .



WARRANTY

Using certificated aluminum alloys and the innovative production and control process that Fondital operates, allow us to offer a 10 years warranty on die cast and home-furnishing radiators, extending up to 20 years for the models treated with the anti-corrosion system Aleternum, and 12-15 years for design radiators.



PATENTS

Standing out among the numerous international patents that Fondital's products possess, the new thermoelectric joining technology, that makes our radiators even more resistant, better looking and ecofriendly, and the anti-corrosion internal treatment Aleternum, that ensures a perfect functioning in a wider water pH range, compared with the one of untreated aluminum or steel.



BOTTOM CONNECTION

An installation kit is available to connect the radiator in systems with hydraulic connections from the bottom, according to standard, at a distance of 50 mm of steel plate radiators. The kit includes an integral valve with thermostat option.



DIE-CAST RADIATORS

Aleternum B4 page 270
Calidor Super B4 page 272
Blitz B3 page 274
Blitz Super B4 page 276
Blitz Super B4 - Coloured page 278
Exclusivo page 280
Seven N page 282
Radiator with bottom connection page 284
Blitz80 B2 page 286
Calidor80 B2 page 288
Ardente C2 page 290

Aleternum® B4



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **16 bar** **Maximum working pressure**
- **4 internatonal patents**



ALETERNUM TREATMENT

CE 16

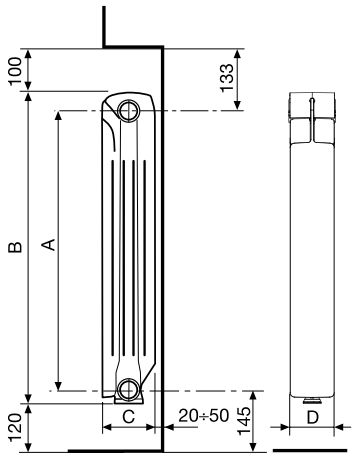
WARRANTY 20 YEARS WARRANTY

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Aleternum B4** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,3	47,2	67,9	89,9	113,1	137,3
500/100	38,0	64,1	92,8	123,8	156,5	190,9
600/100	43,7	74,0	107,5	143,6	182,0	222,3
700/100	49,0	83,1	120,7	161,3	204,5	249,8
800/100	53,6	91,1	132,7	177,7	225,6	276,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V701014	97	407	350	80	G1	0,20	1,2598	0,6506
500/100	V701034	97	558	500	80	G1	0,26	1,2890	0,7991
600/100	V701044	97	658	600	80	G1	0,31	1,2981	0,8950
700/100	V701054	97	758	700	80	G1	0,36	1,2998	0,9986
800/100	V701064	97	858	800	80	G1	0,39	1,3085	1,0635

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

fondital

Calidor SUPER B4



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

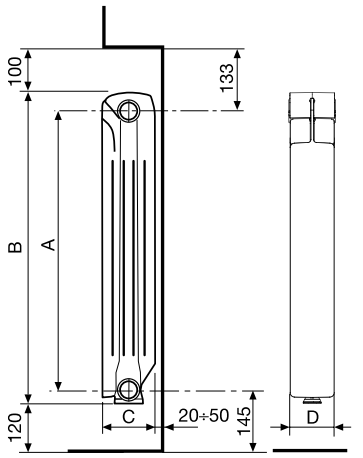
WARRANTY 10 YEARS WARRANTY

CE 16

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Calidor Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,3	47,2	67,9	89,9	113,1	137,3
500/100	38,0	64,1	92,8	123,8	156,5	190,9
600/100	43,7	74,0	107,5	143,6	182,0	222,3
700/100	49,0	83,1	120,7	161,3	204,5	249,8
800/100	53,6	91,1	132,7	177,7	225,6	276,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V690014	97	407	350	80	G1	0,20	1,2598	0,6506
500/100	V690034	97	558	500	80	G1	0,26	1,2890	0,7991
600/100	V690044	97	658	600	80	G1	0,31	1,2981	0,8950
700/100	V690054	97	758	700	80	G1	0,36	1,2998	0,9986
800/100	V690064	97	858	800	80	G1	0,39	1,3085	1,0635

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

Blitz B3





- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**



SIDE KIT, AVAILABLE ON REQUEST AS AN ACCESSORY (AVAILABLE IN PURE WHITE RAL 9010 ONLY)

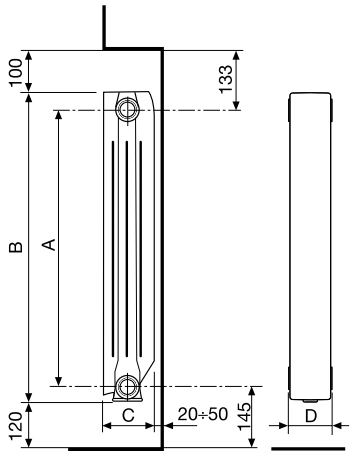
CE 17

WARRANTY 10 YEARS WARRANTY

Standard supply	500: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Blitz B3** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	37,1	62,3	89,9	119,5	150,8	183,6



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/100	V659034	97	557	500	80	G1	0,26	1,2767	0,8097

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^{n}$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037
	-	Side kit 500 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550361

For other accessories, see from page 325

Blitz SUPER B4





Low thermal inertia

Low water content

Versatility

Easy to stock and install

16 bar **Maximum working pressure**

3 internatonal patents



SIDE KIT, AVAILABLE ON REQUEST AS AN ACCESSORY (AVAILABLE IN PURE WHITE RAL 9010 ONLY)

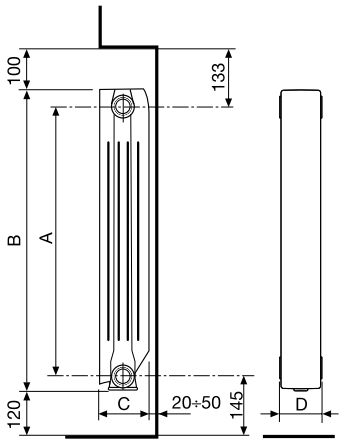
CE 17

WARRANTY 10 YEARS WARRANTY

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Blitz Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,6	48,0	69,4	92,4	116,8	142,3
500/100	37,6	63,7	92,7	124,0	157,2	192,1
600/100	43,5	73,8	107,3	143,5	181,9	222,3
700/100	48,3	82,6	120,9	162,5	206,8	253,6
800/100	52,7	90,3	132,4	178,2	227,1	278,8



MEASURES EXPRESSED IN MILLIMETRES

Model	Code PURE WHITE RAL 9010	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V693014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	V693034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	V693044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	V693054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	V693064	97	857	800	80	G1	0,38	1,3301	0,9796

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037
	-	Side kit 350 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550360
	-	Side kit 500 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550361
	-	Side kit 600 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550362
	-	Side kit 700 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550363
	-	Side kit 800 mm (2 piec.) - Colour: PURE WHITE RAL 9010	550364

For other accessories, see from page 325

Blitz SUPER B4



CLASSIC: SILVER



SPECIAL: HAMMERED BLACK

- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **Available in 9 colours**

WARRANTY 10 YEARS WARRANTY

CE 17

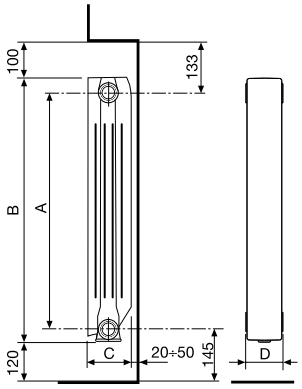
Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar

Combinable with the models
Garda S/90 coloured, see p. 300

For aesthetic reasons, it is not recommended to disassemble batteries. Instead, batteries can be assembled together to make larger compositions than those supplied by the factory.

All models **Blitz Super B4** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,6	48,0	69,4	92,4	116,8	142,3
500/100	37,6	63,7	92,7	124,0	157,2	192,1
600/100	43,5	73,8	107,3	143,5	181,9	222,3
700/100	48,3	82,6	120,9	162,5	206,8	253,6
800/100	52,7	90,3	132,4	178,2	227,1	278,8



MEASURES EXPRESSED IN MILLIMETRES

Model with CLASSIC color	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	VC05*xx*014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	VC05*xx*034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	VC05*xx*044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	VC05*xx*054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	VC05*xx*064	97	857	800	80	G1	0,38	1,3301	0,9796

Model for colour SPECIAL	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	VC05*xx*014	97	407	350	80	G1	0,24	1,2818	0,6139
500/100	VC05*xx*034	97	557	500	80	G1	0,27	1,3027	0,7587
600/100	VC05*xx*044	97	657	600	80	G1	0,29	1,3015	0,8822
700/100	VC05*xx*054	97	757	700	80	G1	0,35	1,3238	0,9155
800/100	VC05*xx*064	97	857	800	80	G1	0,38	1,3301	0,9796

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

(*) Enter the colour code instead of xx. After the last digit (4) add the number of elements required.

For example, to request the **Blitz Super B4 350/100 (VC05xx014) Silver colour of 3 elements,** the code would be **VC05 + 07 + 01403**

CLASSIC					
NEUTRAL WHITE	SILVER	GRAPHITE	SLATE GREY	BLACK COFFEE	BRONZE
Cod. 06	Cod. 07	Cod. 3R	Cod. 3B	Cod. 3V	Cod. 08

SPECIAL	
HAMMERED BLACK	PURE METAL
Cod. 17	Cod. 18

Item		Description	Colour	Code
	-	1/2" plug and fixing kit - Colour: ACCORDING TO THE CHOICE 2 Rh G ½" adapters; 2 Lh G ½" adapters; 4 retaining gaskets for model Blitz 4 retaining gaskets for model Garda 1/2" manual air-purging valve with gasket; 1 Rh G 1" blind plug; 1 Lh G 1" blind plug; 4 fixing brackets.	NEUTRAL WHITE	55014906
			SILVER	55014907
			BRONZE	55014908
			HAMMERED BLACK	55014917
			SLATE GREY	5501493B
			GRAPHITE	5501493R
			BLACK COFFEE	5501493V
			PURE METAL	55014918
	A 2/1	RH/LH G 1" Nipple	-	510011
	A 10/1	1" Seals for nipples (without asbestos)	-	530105
	A 11/1	1" Seals for plugs (without asbestos)	-	530108

For other accessories, see from page 325

exclusivo



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

CE 15 Mod. 350/700/800

CE 18 Mod. 500

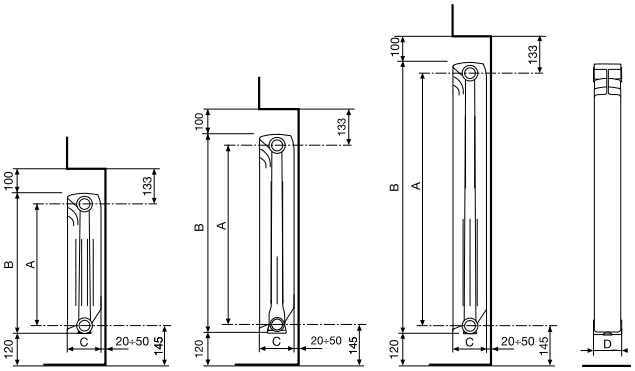
CE 19 Mod. 600

WARRANTY 10 YEARS WARRANTY

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Exclusivo** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,0	47,3	68,6	91,5	115,8	141,3
500/100	35,4	59,5	86,0	114,5	144,6	176,2
600/100	40,7	68,9	100,0	133,5	169,1	206,4
700/100	45,6	77,1	112,0	149,5	189,4	231,3
800/100	50,1	85,2	124,0	166,0	210,7	257,7



Mod. 350 (B4) Mod. 500 - 600 (D3) Mod. 700 - 800 (B3)

MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V680014	97	407	350	80	G1	0,21	1,2910	0,5865
500/100	V710034	97	556	500	80	G1	0,26	1,2823	0,7588
600/100	V710044	97	657	600	80	G1	0,29	1,2953	0,8410
700/100	V666054	97	757	700	80	G1	0,39	1,2970	0,9358
800/100	V666064	97	857	800	80	G1	0,43	1,3070	0,9992

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

CE 16 Mod. 350/700/800

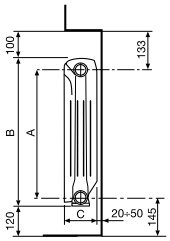
CE 19 Mod. 500/600

WARRANTY 10 YEARS WARRANTY

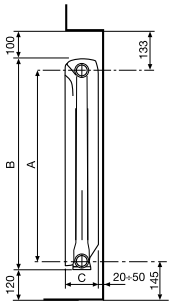
Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500/350: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Seven N** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

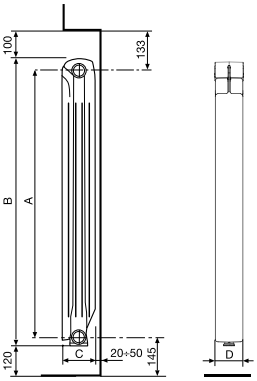
Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
350/100	28,3	47,2	67,9	89,9	113,1	137,3
500/100	35,4	59,5	86,0	114,4	144,5	176,1
600/100	40,1	67,8	98,5	131,5	166,5	203,3
700/100	49,0	83,1	120,7	161,3	204,5	249,8
800/100	53,6	91,1	132,7	177,7	225,6	276,0



Mod. 350 (B4)



Mod. 500 - 600 (D3)



Mod. 700 - 800 (B4)

MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
350/100	V677014	97	407	350	80	G1	0,20	1,2598	0,6506
500/100	V718034	97	557	500	80	G1	0,25	1,2813	0,7613
600/100	V718044	97	657	600	80	G1	0,29	1,2957	0,8270
700/100	V677054	97	758	700	80	G1	0,36	1,2998	0,9986
800/100	V677064	97	858	800	80	G1	0,39	1,3085	1,0635

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

RADIATOR WITH BOTTOM CONNECTION



- **Low thermal inertia**
- **Low water content**
- **Bottom connection**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **Exclusive patent**

WARRANTY 10 YEARS WARRANTY

CE 18

Radiator with bottom connection is made of:
- standard composition **(A)**
- single section with right **(B)** or left **(C)** bottom connection
- valve **(D)**

The three articles need to be ordered separately and assembled by the installer.
For the codes, see the following page.





All models are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.



KIT COMPOSITION:

B





RH KIT

C





LH KIT

D



520215M



520216P



520205DS

RADIATOR WITH A RIGHT BOTTOM CONNECTION

ELEMENT:

RADIATOR MODEL WITH ACCESSORY KIT RIGHT BOTTOM CONNECTION INCLUDED **(B)**

VALVE KIT **(D)** (TO BE ORDERED SEPARATELY)

RADIATOR WITH A LEFT BOTTOM CONNECTION

ELEMENT:

RADIATOR MODEL WITH ACCESSORY KIT LEFT BOTTOM CONNECTION INCLUDED **(C)**

VALVE KIT **(D)** (TO BE ORDERED SEPARATELY)

UPPER VALVE







CODE OBTAINING EXAMPLE

To create a composition **Calidor Super B4 600/100** with **10** sections with **right** bottom connection and a bottom connection **valve with bypass**, please order:

1 radiator Calidor Super B4 600/100 with **9** sections: **V69004409** (see page 229)

1 section with right bottom connection: **V690044DX** (see the following tables)

1 bottom connection valve kit with bypass: **520205DS** (see the table at the end of the page)

Model Calidor Super B4	Code
350/100 RH	V686014DX
350/100 LH	V686014SX
500/100 RH	V690034DX
500/100 LH	V690034SX
600/100 RH	V690044DX
600/100 LH	V690044SX
700/100 RH	V690054DX
700/100 LH	V690054SX
800/100 RH	V690064DX
800/100 LH	V690064SX

For the heat output values see corresponding model on page 275

Model Blitz Super B4	Code
350/100 RH	V693014DX
350/100 LH	V693014SX
500/100 RH	V693034DX
500/100 LH	V693034SX
600/100 RH	V693044DX
600/100 LH	V693044SX
700/100 RH	V693054DX
700/100 LH	V693054SX
800/100 RH	V693064DX
800/100 LH	V693064SX

For the heat output values see corresponding model on page 277

Model Exclusivo	Code
350/100 RH	V680014DX
350/100 LH	V680014SX
500/100 RH	V710034DX
500/100 LH	V710034SX
600/100 RH	V710044DX
600/100 LH	V710044SX

For the heat output values see corresponding model on page 281

Item	Description	Code
	**RH-LH VALVE BOTTOM TO WALL FITTING KIT** - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with check valve - With screws/O-rings to install bottom fitting element	520215M
	**RH-LH VALVE BOTTOM TO FLOOR FITTING KIT** - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with check valve - With screws/O-rings to install bottom fitting element	520216P
	**RH-LH VALVE BOTTOM FITTING KIT WITH BYPASS** - H-valve with 50-mm pitch - 3/4 Eurocone threads - Material nickel-plated brass with closing device and adjustable bypass - With screws/O-rings to install bottom fitting element - Adjustable bypass for single-pipe system	520205DS

fondital

Blitz80 B2



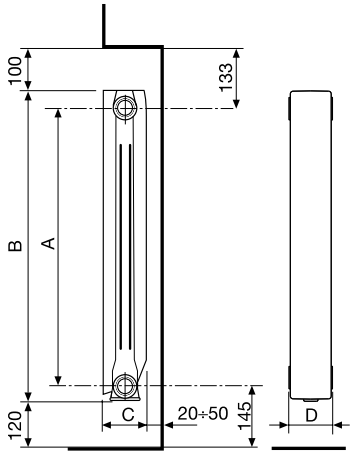
- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

CE 17

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Blitz80 B2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/80	30,5	51,3	74,2	98,8	124,8	152,2
600/80	34,7	58,6	85,1	113,5	143,7	175,5
700/80	39,7	67,2	97,6	130,4	165,3	201,9
800/80	44,0	74,5	108,2	144,7	183,3	224,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/80	V617134	77	557	500	80	G1	0,25	1,2833	0,6524
600/80	V617144	77	657	600	80	G1	0,28	1,2935	0,7203
700/80	V617154	77	757	700	80	G1	0,39	1,2993	0,8088
800/80	V617164	77	857	800	80	G1	0,44	1,2995	0,8966

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

Calidor80 B2



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

CE 15 Mod. 500

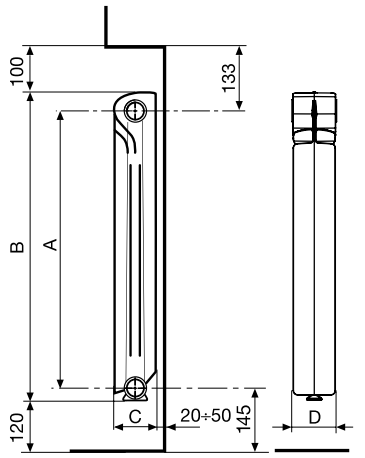
CE 16 Mod. 600/700/800

WARRANTY 10 YEARS WARRANTY

Standard supply	800: from 3 to 10 sections 700: from 3 to 12 sections 600/500: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Calidor80 B2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/80	30,6	51,8	75,1	100,2	126,9	154,8
600/80	35,7	59,8	86,4	114,9	145,1	176,6
700/80	40,8	68,7	99,6	132,7	167,8	204,7
800/80	44,6	75,6	109,9	147,1	186,5	228,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/80	V622134	77	556	500	80	G1	0,24	1,2935	0,6358
600/80	V622144	77	658	600	80	G1	0,28	1,2774	0,7765
700/80	V622154	77	757	700	80	G1	0,39	1,2878	0,8608
800/80	V622164	77	858	800	80	G1	0,42	1,3031	0,8984

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

ardente



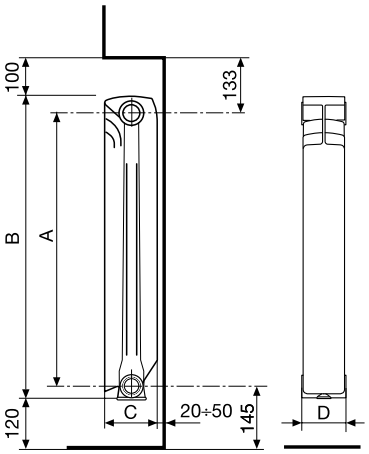
- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **3 internatonal patents**

CE 18

Standard supply	600/500: from 3 to 14 sections **"Fondital logo"** from 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar

All models **Ardente C2** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
500/100	33,9	57,0	82,4	109,8	138,7	169,0
600/100	39,3	66,2	95,7	127,5	161,2	196,5



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		(C) mm	(B) mm	(A) mm	(D) mm	inches	litres/sect.	n	Km
500/100	V639034	97	556	500	80	G1	0,26	1,2835	0,7240
600/100	V639044	97	656	600	80	G1	0,29	1,2851	0,8361

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

Item		Description	Code
	A 80	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal	550103
	A 81	The radiator fixing kit includes: 2 Rh G ½" adapters; 2 Lh G ½" adapters, galvanized and painted; 4 sealing gaskets; 1 G ½" manual bleed valve with seal; 1 G ½" blind plug with seal; 3 brackets	550104
	A 2/1	RH/LH G 1" Nipple	510011
	A 10/1	1" Seals for nipples (without asbestos)	530105
	A 11/1	1" Seals for plugs (without asbestos)	530108
	A 20	Kit with two adjustable coated brackets	550037

For other accessories, see from page 325

fondital



EXTRUDED RADIATORS

Garda S/90 page 294
Garda S/90 - Coloured page 296
Garda Dual 80 page 298
Garda S/90 Aleternum page 300
Garda Dual 80 Aleternum page 302
Garda S/90 AC page 304

Garda S/90



- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**

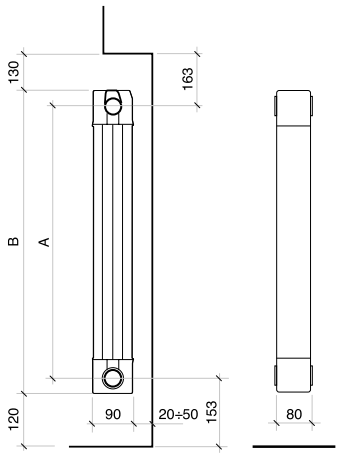
CE 05

WARRANTY 10 YEARS WARRANTY

Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

All models **Garda S/90** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	52,3	90,9	134,4	182,0	233,3	287,7
1000	55,9	97,2	143,9	195,0	250,0	308,5
1200	64,1	111,3	164,6	223,0	285,8	352,5
1400	71,9	124,8	184,6	250,0	320,3	395,1
1600	77,5	135,9	202,4	275,0	354,8	439,2
1800	86,5	150,0	221,6	300,0	384,2	473,6
2000	90,7	159,5	237,9	324,0	418,0	518,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	83A014	90	966	900	80	G1	0,43	1,3605	0,8886
1000	83B014	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	83C014	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	83D014	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	83E014	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	83F014	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	83G014	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

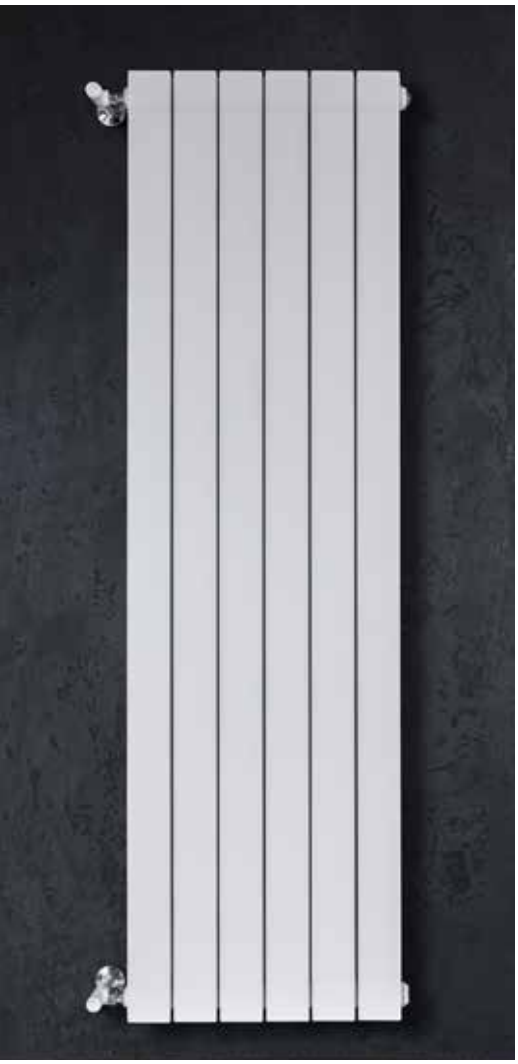
Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

Item		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 325

fondital

Garda S/90



CLASSIC: NEUTRAL WHITE



CLASSIC: GRAPHITE



CLASSIC: BLACK COFFEE

- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **Available in 8 colours**

WARRANTY 10 YEARS WARRANTY

CE 05

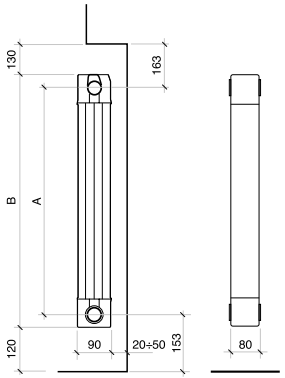
Standard supply	3, 4, 5, 6 sections
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

Combinable with the models
Blitz Super B4 coloured, see p. 282

For aesthetic reasons, it is not recommended to disassemble batteries. Instead, batteries can be assembled together to make larger compositions than those supplied by the factory.

All models **Garda S/90** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	52,3	90,9	134,4	182,0	233,3	287,7
1000	55,9	97,2	143,9	195,0	250,0	308,5
1200	64,1	111,3	164,6	223,0	285,8	352,5
1400	71,9	124,8	184,6	250,0	320,3	395,1
1600	77,5	135,9	202,4	275,0	354,8	439,2
1800	86,5	150,0	221,6	300,0	384,2	473,6
2000	90,7	159,5	237,9	324,0	418,0	518,0



MEASURES EXPRESSED IN MILLIMETRES

Model with CLASSIC color	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	81AGS*xx*4	90	966	900	80	G1	0,43	1,3605	0,8886
1000	81BGS*xx*4	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	81CGS*xx*4	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	81DGS*xx*4	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	81EGS*xx*4	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	81FGS*xx*4	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	81GGS*xx*4	90	2066	2000	80	G1	0,86	1,3905	1,4083

Model for colour SPECIAL	Code (*)	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	81AGS*xx*4	90	966	900	80	G1	0,43	1,3605	0,8886
1000	81BGS*xx*4	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	81CGS*xx*4	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	81DGS*xx*4	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	81EGS*xx*4	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	81FGS*xx*4	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	81GGS*xx*4	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

(*) Enter the colour code instead of xx. After the last digit (4) add the number of elements required.

For example, to request the **Garda S/90 (81AGSxx4) model 900 Silver colour of 4 el.,** the code would be **81AGS + 07 + 404**

CLASSIC						SPECIAL
NEUTRAL WHITE	SILVER	GRAPHITE	SLATE GREY	BLACK COFFEE	BRONZE	HAMMERED BLACK
Cod. 06	Cod. 07	Cod. 3R	Cod. 3B	Cod. 3V	Cod. 08	Cod. 17

Item		Description	Colour	Code
	-	1/2" plug and fixing kit - Colour: ACCORDING TO THE CHOICE 2 Rh G ½" adapters; 2 Lh G ½" adapters; 4 retaining gaskets for model Blitz 4 retaining gaskets for model Garda 1/2" manual air-purging valve with gasket; 1 Rh G 1" blind plug; 1 Lh G 1" blind plug; 4 fixing brackets.	NEUTRAL WHITE	55014906
			SILVER	55014907
			BRONZE	55014908
			HAMMERED BLACK	55014917
			SLATE GREY	5501493B
			GRAPHITE	5501493R
			BLACK COFFEE	5501493V
	-	Rubber lockshield plug (water diaphragm)	-	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	-	530102
	A 33/1	Nipple for home furnishing radiators	-	521012

For other accessories, see from page 325

Garda DUAL/80





Low thermal inertia

Low water content

Versatility

Easy to stock and install

16 bar **Maximum working pressure**

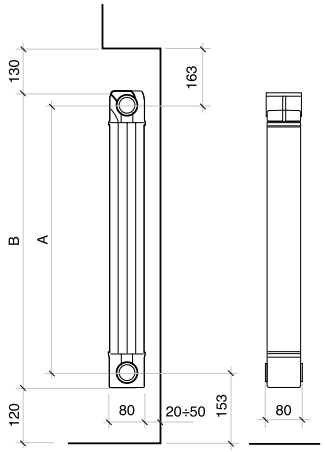
WARRANTY 10 YEARS WARRANTY

CE 05

Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

All models **Garda Dual 80** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	49,7	86,6	128,5	174,4	223,8	276,4
1000	52,9	92,9	138,6	189,1	243,6	301,9
1200	60,2	105,8	157,7	215,0	276,9	343,1
1400	67,6	118,6	176,8	241,0	310,4	384,4
1600	73,9	130,2	194,7	266,0	343,2	425,8
1800	81,1	142,1	211,5	288,0	370,6	458,7
2000	86,7	152,4	227,3	310,0	399,4	494,9



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	82F014	80	966	900	80	G1	0,47	1,3695	0,8217
1000	82G014	80	1066	1000	80	G1	0,52	1,3908	0,8198
1200	82H014	80	1266	1200	80	G1	0,60	1,3889	0,9391
1400	82I014	80	1466	1400	80	G1	0,70	1,3875	1,0585
1600	82L014	80	1666	1600	80	G1	0,79	1,3980	1,1213
1800	82M014	80	1866	1800	80	G1	0,88	1,3832	1,2864
2000	82N014	80	2066	2000	80	G1	0,96	1,3902	1,3473

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

Item		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 325

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Garda S/90 Aleternum®



Low thermal inertia

Low water content

Versatility

Easy to stock and install

16 bar **Maximum working pressure**

Aleternum patent

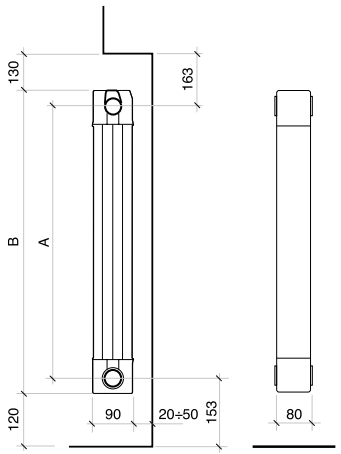
CE 05

Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Garda S/90 Aleternum** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	52,3	90,9	134,4	182,0	233,3	287,7
1000	55,9	97,2	143,9	195,0	250,0	308,5
1200	64,1	111,3	164,6	223,0	285,8	352,5
1400	71,9	124,8	184,6	250,0	320,3	395,1
1600	77,5	135,9	202,4	275,0	354,8	439,2
1800	86,5	150,0	221,6	300,0	384,2	473,6
2000	90,7	159,5	237,9	324,0	418,0	518,0



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	83AA14	90	966	900	80	G1	0,43	1,3605	0,8886
1000	83BA14	90	1066	1000	80	G1	0,47	1,3630	0,9426
1200	83CA14	90	1266	1200	80	G1	0,55	1,3610	1,0864
1400	83DA14	90	1466	1400	80	G1	0,62	1,3600	1,2227
1600	83EA14	90	1666	1600	80	G1	0,70	1,3843	1,2260
1800	83FA14	90	1866	1800	80	G1	0,78	1,3570	1,4846
2000	83GA14	90	2066	2000	80	G1	0,86	1,3905	1,4083

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

Item		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 325

Garda DUAL/80 Aleternum®





- **Low thermal inertia**
- **Low water content**
- **Versatility**
- **Easy to stock and install**
- **16 bar** **Maximum working pressure**
- **Aleternum patent**

CE 05

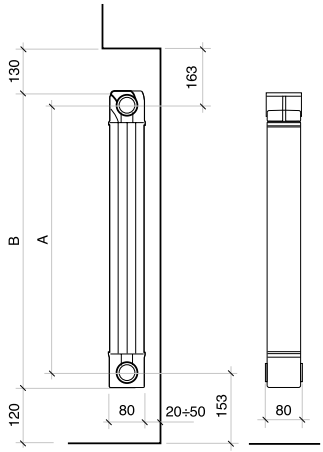
WARRANTY 20 YEARS WARRANTY

Standard supply	3, 4, 5, 6 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)
Aleternum treatment	Supplied as standard

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Garda Dual 80 Aleternum** are guaranteed **20 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
900	49,7	86,6	128,5	174,4	223,8	276,4
1000	52,9	92,9	138,6	189,1	243,6	301,9
1200	60,2	105,8	157,7	215,0	276,9	343,1
1400	67,6	118,6	176,8	241,0	310,4	384,4
1600	73,9	130,2	194,7	266,0	343,2	425,8
1800	81,1	142,1	211,5	288,0	370,6	458,7
2000	86,7	152,4	227,3	310,0	399,4	494,9



MEASURES EXPRESSED IN MILLIMETRES

Model	Code	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	mm	inches	litres/sect.	n	Km
900	82FA14	80	966	900	80	G1	0,47	1,3695	0,8217
1000	82GA14	80	1066	1000	80	G1	0,52	1,3908	0,8198
1200	82HA14	80	1266	1200	80	G1	0,60	1,3889	0,9391
1400	82IA14	80	1466	1400	80	G1	0,70	1,3875	1,0585
1600	82LA14	80	1666	1600	80	G1	0,79	1,3980	1,1213
1800	82MA14	80	1866	1800	80	G1	0,88	1,3832	1,2864
2000	82NA14	80	2066	2000	80	G1	0,96	1,3902	1,3473

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

Stated heat output values are in accordance with European Standard EN 442-1:2014 and certified by Cetiat - Notified body No. 1623.

Item		Description	Code
	A 72	½" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ½"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ½"; 2 Lh adapters ½"; 4 O-ring seals; 2 Supporting brackets	550118
	A 73	¾" Plug/Adapters/Brackets kit, colour white (Rough brackets, not painted): 1 Bleed valve ¾"; 1 Rh blanking plug; 1 Lh blanking plug; 2 Rh adapters ¾"; 2 Lh adapters ¾"; 4 O-ring seals; 2 Supporting brackets	550119
	A 30/1	Rubber lockshield plug (water diaphragm)	521011
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 36/4	4 Element towel rail - Colour: White RAL 9010	570014
	A 36/5	5 Element towel rail - Colour: White RAL 9010	570024
	A 36/6	6 Element towel rail - Colour: White RAL 9010	570124

For other accessories, see from page 325

Garda S/90 AC



Low thermal inertia

Low water content

Versatility

Easy to stock and install

16 bar **Maximum working pressure**

WARRANTY 10 YEARS WARRANTY

CE 05

Standard supply	3, 5, 7, 9 sections
Colours	PURE WHITE RAL 9010
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Water diaphragm (retainer cap)

All models **Garda S/90 AC** are guaranteed **10 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

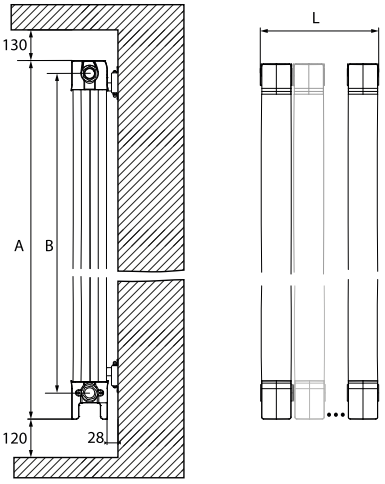


BOTTOM CENTRE CONNECTION



BOTTOM SIDE CONNECTION

To connect the radiator with a valve at the bottom on one side, you will need to join two Garda S/90 AC radiators using dedicated accessories **Art. 550111E + Art. 520118**.



MEASURES EXPRESSED IN MILLIMETRES

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
1200/3	192	334	494	669	857	1058
1200/5	320	556	823	1115	1429	1763
1200/7	449	779	1152	1561	2001	2468
1200/9	577	1001	1481	2007	2572	3173
1400/3	216	374	554	750	961	1185
1400/5	359	624	923	1250	1602	1975
1400/7	503	874	1292	1750	2242	2765
1400/9	647	1123	1661	2250	2883	3555

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
1600/3	233	408	607	825	1064	1318
1600/5	388	680	1012	1375	1774	2196
1600/7	543	951	1417	1925	2484	3074
1600/9	698	1223	1822	2475	3193	3953
1800/3	260	450	665	900	1153	1421
1800/5	433	750	1108	1500	1921	2368
1800/7	606	1050	1551	2100	2689	3315
1800/9	779	1350	1995	2700	3458	4262

Model	Code	Depth	Height	Centre distance	Length *	Connection diameters	Water capacity	Exponent	Coefficient
		mm	(B) mm	(A) mm	(L) mm	inches	litres/sect.	n	Km
1200/3	83CF1403	90	1287	1187	260	G1/2	1,65	1,3610	3,2592
1200/5	83CF1405	90	1287	1187	420	G1/2	2,75	1,3610	5,4320
1200/7	83CF1407	90	1287	1187	580	G1/2	3,85	1,3610	7,6048
1200/9	83CF1409	90	1287	1187	740	G1/2	4,95	1,3610	9,7776
1400/3	83DF1403	90	1487	1387	260	G1/2	1,86	1,3600	3,6681
1400/5	83DF1405	90	1487	1387	420	G1/2	3,10	1,3600	6,1135
1400/7	83DF1407	90	1487	1387	580	G1/2	4,34	1,3600	8,5589
1400/9	83DF1409	90	1487	1387	740	G1/2	5,58	1,3600	11,0043
1600/3	83EF1403	90	1687	1587	260	G1/2	2,10	1,3843	3,6780
1600/5	83EF1405	90	1687	1587	420	G1/2	3,50	1,3843	6,1300
1600/7	83EF1407	90	1687	1587	580	G1/2	4,90	1,3843	8,5820
1600/9	83EF1409	90	1687	1587	740	G1/2	6,30	1,3843	11,034
1800/3	83FF1403	90	1887	1787	260	G1/2	2,34	1,3570	4,4538
1800/5	83FF1405	90	1887	1787	420	G1/2	3,90	1,3570	7,4230
1800/7	83FF1407	90	1887	1787	580	G1/2	5,46	1,3570	10,3922
1800/9	83FF1409	90	1887	1787	740	G1/2	7,02	1,3570	13,3614

* The measure includes the overall dimensions of the side caps.

Maximum working pressure: 1600 kpa (16 bar)

Characteristic equation of the model $\Phi=Km\ \Delta T^n$
Reference EN 442-1:2014.

fondital

50 mm centre distance valves with by-pass - **nickel-plated finish**

Item	Description	Code
	Angle valve with thermostat option	847V81210Q
	Straight valve with thermostat option	847V81610Q

50 mm centre distance valves with by-pass - **white finish**

Item	Description	Code
	Angle valve with thermostat option	847V81210E
	Straight valve with thermostat option	847V81610E

Complementary accessories

Item	Description	Code
	Extension kit with O-ring	550140
	Thermostatic head with liquid sensor - Colour: white/chrome	847A40300A
	Angle adapter for thermostatic head	847M02610A

Components supplied with the **radiator**

Item	Description	Code
	Fixing system kit and plugs	550128
	Blind plug with groove, 1" right thread	525013
	Blind plug with groove, 1" left thread	525113
	Reduction with groove, 1" ÷ ½ right thread	526241
	Reduction with groove, 1" ÷ ½ left thread	526341

Components supplied with the **valve**

Item	Description	Code
	Plastic probe 11 mm - 110 mm long	847NV81109A
	Flow diverter	847A31301A
	Nut and pipe union for valve - Colour: Chrome	847A34450B
	½" O-Ring for pipe union connection	847A15029A

Components for battery composition with **side connections**

Item	Description	Code
	½" Plug to close central element	520118
	Plastic wrench for plugs	560257
	Nipple metal wrench kit 1" and ¾" (50 cm) with lever and plastic wrench for plugs	550092
	Nipple metal wrench 1" (80 cm) without lever	550090
	Nipple metal wrench 1" (100 cm) without lever	550093

Copper pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
10	¾" EK	847A43301Q	847A33501B
12	¾" EK	847A43302Q	847A33502B
14	¾" EK	847A43303Q	847A33503B
15	¾" EK	847A43304Q	847A33504B
16	¾" EK	847A43305Q	847A33505B
18	¾" EK	-	847A33506B



Multilayer pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
14 x 2	¾" EK	847A39301Q	847A58701B
16 x 2	¾" EK	847A39302Q	847A58702B
17 x 2	¾" EK	847A39304Q	847A58704B
18 x 2	¾" EK	847A39306Q	847A58706B
20 x 2	¾" EK	847A39308Q	847A58708B
16 x 2.25	¾" EK	847A39303Q	847A58703B
20 x 2.25	¾" EK	847A39309Q	847A58709B
20 x 2.5	¾" EK	847A39307Q	847A58707B
16 x 2.6	¾" EK	847A39315Q	-
20 x 2.9	¾" EK	847A39316Q	-



PEX pipe adapters

Pipe size	Connection	Nickel	Chrome
(Ø mm)		Code	Code
12 x 1	¾" EK	847A39420Q	847A58810B
16 x 1.5	¾" EK	847A39405Q	847A58811B
12 x 2	¾" EK	847A39401Q	847A58800B
14 x 2	¾" EK	847A39402Q	847A58801B
16 x 2	¾" EK	847A39406Q	847A58803B
17 x 2	¾" EK	847A39408Q	847A58805B
18 x 2	¾" EK	847A39410Q	847A58806B
20 x 2	¾" EK	847A39413Q	847A58808B
16 x 2.2	¾" EK	847A39407Q	847A58804B
15 x 2.5	¾" EK	847A39404Q	847A58802B
18 x 2.5	¾" EK	847A39411Q	847A58807B
20 x 2.5	¾" EK	847A39415Q	847A58809B





TOWEL RAILS

Cool ..... page 310

Cool Aleternum®



CLASSIC: SILVER



SPECIAL: THE FONDITAL RED

- **Low thermal inertia**
- **Low water content**
- **Aleternum patent**
- **Available in 18 colors**
- **Double painting: anaphoresis + epoxy powders**
- **Corrosion resistance**

CE 14

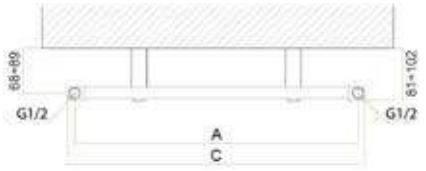
WARRANTY 12 YEARS WARRANTY

100% ALUMINIUM

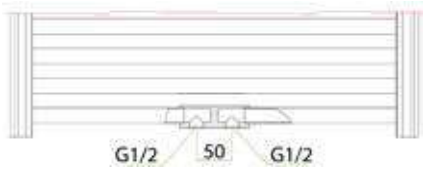
Centre-to-centre distances (mm)	400 - 450 - 500 -550 - 600
Heights (mm)	858 - 1152 - 1488 - 1740
Colours	see colours table
Maximum working pressure	16 bar
Test pressure	24 bar
Included in the package	Installation kit
Aleternum treatment	Supplied as standard

This product is suitable for use with radiant heating systems. The patented Aleternum treatment reduces the build-up of residues, impurities and sludge. It keeps the system water clean at all times.

All models **Cool** are guaranteed **12 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.



LATERAL CONNECTION



CENTRAL CONNECTION



35 PIPES
Model 1740



29 PIPES
Model 1490



23 PIPES
Model 1160



16 PIPES
Model 860

Model	Height	Heat output					
		ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	mm	W	W	W	W	W	W
860/400	858	116	188	266	348	433	521
860/450	858	118	196	280	370	464	562
860/500	858	127	211	302	399	501	607
860/550	858	136	226	324	428	537	651
860/600	858	145	241	346	457	574	696
1160/400	1152	152	248	350	458	571	687
1160/450	1152	160	265	380	502	630	763
1160/500	1152	173	288	412	544	684	829
1160/550	1152	187	310	444	587	737	894
1160/600	1152	200	333	477	630	791	959

Model	Height	Heat output					
		ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	mm	W	W	W	W	W	W
1490/400	1488	197	322	455	595	741	892
1490/450	1488	209	347	497	658	826	1002
1490/500	1488	228	378	542	717	900	1092
1490/550	1488	247	410	587	776	975	1182
1490/600	1488	266	441	632	835	1049	1271
1740/400	1740	231	379	539	707	883	1065
1740/450	1740	250	413	590	778	976	1181
1740/500	1740	273	451	645	850	1066	1291
1740/550	1740	296	489	699	922	1156	1400
1740/600	1740	319	527	754	994	1247	1509

Model	Height	Depth	Centre distance	Length	Water capacity	Exponent	Coefficient
	mm	mm	mm	mm	litres	n	Km
860/400	858	26	400	428	2,4	1,2015	3,1596
860/450	858	26	450	478	2,7	1,2443	2,8430
860/500	858	26	500	528	2,9	1,2468	3,0374
860/550	858	26	550	578	3,2	1,2492	3,2277
860/600	858	26	600	628	3,4	1,2517	3,4143
1160/400	1152	26	400	428	3,4	1,2029	4,1431
1160/450	1152	26	450	478	3,8	1,2479	3,8033
1160/500	1152	26	500	528	4,1	1,2487	4,1156
1160/550	1152	26	550	578	4,5	1,2495	4,4259
1160/600	1152	26	600	628	4,9	1,2502	4,7339
1490/400	1488	26	400	428	4,4	1,2045	5,3470
1490/450	1488	26	450	478	4,8	1,2520	4,9057
1490/500	1488	26	500	528	5,2	1,2509	5,3720
1490/550	1488	26	550	578	5,7	1,2497	5,8423
1490/600	1488	26	600	628	6,1	1,2486	6,3166
1740/400	1740	26	400	428	5,3	1,2182	6,0193
1740/450	1740	26	450	478	5,7	1,2406	6,0741
1740/500	1740	26	500	528	6,3	1,2408	6,6300
1740/550	1740	26	550	578	6,8	1,2410	7,1851
1740/600	1740	26	600	628	7,5	1,2412	7,7391

TONDERA series for central connection

Item	Description	Code
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (thermostatic head code 8480931 to be purchased separately). RIGHT - Colour Pure White RAL 9010	8496811
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (thermostatic head code 8480931 to be purchased separately). RIGHT - Chromed Colour	8496812
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (supplied with manual head, it is possible to add a thermostatic head, code 8480931). RIGHT - Colour Pure White RAL 9010	8496841
	Thermostatic valve and lockshield assembly 50 mm square, interchangeable connection for copper and multilayer pipe, anti-drip tang (supplied with manual head, it is possible to add a thermostatic head, code 8480931). RIGHT - Chromed Colour	8496842

For other accessories, see from page 325

Valves viewed from the back (wall side).

CODE OBTAINING EXAMPLE

Cool radiator 860/400, PURE WHITE RAL 9010 colour
Ex: **EA42E0 04**

Cool radiator 1160/500, GRAPHITE colour
Ex: **EA52G0 3R**

To obtain the radiator code, it is necessary to add to the code the two final numbers concerning the finishing and the desired colour.

Model	Side connection version		Central connection version	
	PURE WHITE RAL 9010	Colours	PURE WHITE RAL 9010	Colours
860/400	EA42E0 04	EA52E0 *xx*	EA62E0 04	EA62E0 *xx*
860/450	EA42A0 04	EA52A0 *xx*	EA62A0 04	EA62A0 *xx*
860/500	EA42B0 04	EA52B0 *xx*	EA62B0 04	EA62B0 *xx*
860/550	EA42C0 04	EA52C0 *xx*	EA62C0 04	EA62C0 *xx*
860/600	EA42D0 04	EA52D0 *xx*	EA62D0 04	EA62D0 *xx*
1160/400	EA42L0 04	EA52L0 *xx*	EA62L0 04	EA62L0 *xx*
1160/450	EA42F0 04	EA52F0 *xx*	EA62F0 04	EA62F0 *xx*
1160/500	EA42G0 04	EA52G0 *xx*	EA62G0 04	EA62G0 *xx*
1160/550	EA42H0 04	EA52H0 *xx*	EA62H0 04	EA62H0 *xx*
1160/600	EA42I0 04	EA52I0 *xx*	EA62I0 04	EA62I0 *xx*

Model	Side connection version		Central connection version	
	PURE WHITE RAL 9010	Colours	PURE WHITE RAL 9010	Colours
1490/400	EA42Q0 04	EA52Q0 *xx*	EA62Q0 04	EA62Q0 *xx*
1490/450	EA42M0 04	EA52M0 *xx*	EA62M0 04	EA62M0 *xx*
1490/500	EA42N0 04	EA52N0 *xx*	EA62N0 04	EA62N0 *xx*
1490/550	EA42O0 04	EA52O0 *xx*	EA62O0 04	EA62O0 *xx*
1490/600	EA42P0 04	EA52P0 *xx*	EA62P0 04	EA62P0 *xx*
1740/400	EA42V0 04	EA52V0 *xx*	EA62V0 04	EA62V0 *xx*
1740/450	EA42R0 04	EA52R0 *xx*	EA62R0 04	EA62R0 *xx*
1740/500	EA42S0 04	EA52S0 *xx*	EA62S0 04	EA62S0 *xx*
1740/550	EA42T0 04	EA52T0 *xx*	EA62T0 04	EA62T0 *xx*
1740/600	EA42U0 04	EA52U0 *xx*	EA62U0 04	EA62U0 *xx*

COLOURS

See table on the following page

Item		Description	Code
	A 77	Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)	550124
	-	Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Neutral White (supplied as standard with the coloured radiators Neutral White colour code 06)	55012406
		Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Silver (supplied as standard with the coloured radiators Silver colour code 07)	55012407
		Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Bronze (supplied as standard with the coloured radiators Bronze colour code 08)	55012408
		Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Graphite (supplied as standard with the coloured radiators Graphite colour code 3R)	5501243R
		Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Slate Grey (supplied as standard with the coloured radiators Slate Grey colour code 3B)	5501243B
		Installation kit for Cool 3 points lateral connection with bleed valve and 1 plug - Colour: Black Coffee (supplied as standard with the coloured radiators Black Coffee colour code 3V)	5501243V
	A 78	Cool 3-point installation kit for central connection with bleed valve and 3 plugs - Colour: Chrome (supplied with the STYLE and SPECIAL ranges of coloured radiators).	550125
	A 79	Installation kit for Cool 3 points central connection with bleed valve and 3 plugs - Colour: White (supplied as standard with Pure White RAL 9010 radiators colour code 04)	550126
	-	Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Neutral White (supplied with Neutral White radiators, colour code 06).	55015806
		Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Silver (supplied with Silver radiators, colour code 07).	55015807
		Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Bronze (supplied with Bronze radiators, colour code 08).	55015808
		Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Bronze (supplied with Bronze radiators, colour code 3R).	5501583R
		Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Slate Grey (supplied with Slate Grey radiators, colour code 3B).	5501583B
		Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Black Coffee (supplied with Black Coffee radiators, colour code 3V).	5501583V
	A 89	Cool 3-point installation kit for central connection with bleed valve and 3 plugs – Colour: Chrome (supplied with the STYLE and SPECIAL ranges of coloured radiators)	550127
	-	White towel hanger for Cool - n° 2	570135
	-	Chrome towel hanger for Cool - n° 2	570135C
	-	Towel rail Cool 450/500/550 - Colour: White	570133
	-	Towel rail COOL 600 - Colour: White	570134
	-	Towel rail Cool 450/500/550 - Colour: Chrome	570133C
	-	Towel rail COOL 600 - Colour: Chrome	570134C

CLASSIC

PURE WHITE RAL 9010
Cod.04

NEUTRAL WHITE
Cod.06



SILVER
Cod.07



GRAPHITE
Cod.3R



SLATE GREY
Cod.3B



BLACK COFFEE
Cod.3V



BRONZE
Cod.08

STYLE

LIGHT SHELL
Cod.09



LIGHT GREY
Cod.10



MIDNIGHT GREEN
Cod.12



MIDNIGHT BLUE
Cod.11



BLACK RAVEN
Cod.3L



CHOCOLATE
Cod.13



CINNAMON
Cod.14



FOREST GREEN
Cod.16



DUSTY ROSE
Cod.15

SPECIAL



THE FONDITAL RED
Cod.2A



HAMMERED BLACK
Cod.17

The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.



DESIGN RADIATORS

Mood page 316
Tribeca page 320

Mood Aleternum®



STYLE: MIDNIGHT BLUE



STYLE: LIGHT SHELL

- **Low thermal inertia**
- **Low water content**
- **Aleternum patent**
- **16 bar** **Maximum working pressure**
- **Available in 17 colours**

CE 14

WARRANTY 15 YEARS WARRANTY



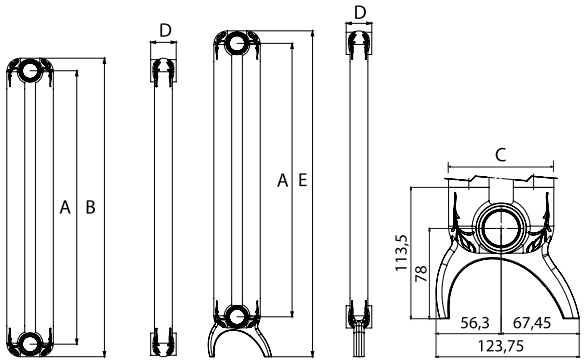
Radiator Mood: with decoration

The Mood model with supporting feet is supplied with centre distances from 1000 to 2000 mm. The supporting feet for this model only have an aesthetic function. The radiator must be secured to the wall with brackets.

For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Mood** are guaranteed **15 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Standard supply	235 - 335 - 350 - 435 500 - 535 - 600	from 4 to 20 elements
	685 - 700 - 800 - 835	from 4 to 16 elements
	900 - 935 - 1000 - 1135 1200 - 1400 - 1435 - 1600 1735 - 1800 - 1935 - 2000	from 4 to 9 elements
Colours	see colours table	
Maximum working pressure	16 bar	
Test pressure	24 bar	
Aleternum treatment	Supplied as standard	



MEASURES EXPRESSED IN MILLIMETRES
With supporting foot E = B + 54 mm

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
235	9,6	16,0	23,1	30,6	38,6	46,9
335	12,5	21,1	30,5	40,5	51,1	62,3
350	13,0	21,8	31,5	41,9	52,9	64,4
435	15,2	25,6	37,1	49,4	62,5	76,1
500	16,9	28,5	41,3	55,1	69,7	85,0
535	17,8	30,1	43,6	58,2	73,6	89,8
600	19,5	32,9	47,8	63,8	80,8	98,6
685	21,6	36,6	53,3	71,2	90,2	110,2
700	22,0	37,3	54,2	72,5	91,8	112,2
800	24,5	41,6	60,6	81,1	102,8	125,8
835	25,4	43,1	62,8	84,1	106,7	130,5
900	27,0	45,9	67,0	89,7	113,9	139,3

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
935	27,9	47,5	69,2	92,7	117,7	144,0
1000	29,6	50,3	73,4	98,3	124,9	152,8
1135	33,0	56,2	82,0	110,0	139,8	171,2
1200	34,6	59,9	87,5	115,7	149,3	182,8
1400	39,7	67,9	99,2	133,3	169,6	207,9
1435	40,7	69,5	101,6	136,4	173,5	212,7
1600	45,1	77,1	112,6	151,2	192,3	235,6
1735	48,9	83,4	121,8	163,4	207,8	254,6
1800	50,7	86,4	126,3	169,4	215,4	263,9
1935	54,5	92,9	135,7	181,9	231,3	283,3
2000	56,4	96,1	140,2	188,1	239,0	292,7

Model	Depth	Height *	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm/sect.	inches	litres/sect.	n	Km
235	90	284	235	50	G1	0,43	1,2665	0,2158
335	90	384	335	50	G1	0,58	1,2792	0,2718
350	90	399	350	50	G1	0,71	1,2800	0,2799
435	90	484	435	50	G1	0,85	1,2849	0,3243
500	90	549	500	50	G1	0,95	1,2885	0,3566
535	90	584	535	50	G1	1,00	1,2905	0,3734
600	90	649	600	50	G1	1,10	1,2942	0,4037
685	90	734	685	50	G1	1,15	1,2990	0,4418
700	90	749	700	50	G1	1,18	1,2999	0,4484
800	90	849	800	50	G1	1,34	1,3055	0,4907
835	90	884	835	50	G1	1,38	1,3075	0,5050
900	90	949	900	50	G1	1,50	1,3091	0,5353
935	90	984	935	50	G1	1,56	1,3100	0,5514
1000	90	1049	1000	50	G1	1,66	1,3115	0,5812
1135	90	1184	1135	50	G1	1,88	1,3149	0,6420
1200	90	1249	1200	50	G1	1,98	1,3164	0,6709
1400	90	1449	1400	50	G1	2,28	1,3213	0,7583
1435	90	1484	1435	50	G1	2,36	1,3210	0,7771
1600	90	1649	1600	50	G1	2,60	1,3192	0,8673
1735	90	1784	1735	50	G1	2,85	1,3178	0,9430
1800	90	1849	1800	50	G1	2,95	1,3171	0,9801
1935	90	1984	1935	50	G1	3,10	1,3156	1,0585
2000	90	2049	2000	50	G1	3,22	1,3150	1,0970

*** To calculate the height of the radiator with the supporting foot (E), add 54 mm to the height of the radiator without foot (B)**

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

fondital

CODE OBTAINING EXAMPLE

Mood radiator 600 from 10 sections PURE WHITE RAL 9010 colour
Ex: **EA10C0 + 04 + 10**

Mood radiator 600 from 12 sections SILVER colour
Ex: **EA10C0 + 07 + 12**

To obtain the radiator code, it is necessary to add the code to the four final digits relating to the colour and number of elements.

Model	Code
235	EA11A0 *xx xx*
335	EA11B0 *xx xx*
350	EA10A0 *xx xx*
435	EA11C0 *xx xx*
500	EA10B0 *xx xx*
535	EA11D0 *xx xx*
600	EA10C0 *xx xx*
685	EA11E0 *xx xx*
700	EA10D0 *xx xx*
800	EA10E0 *xx xx*
835	EA11F0 *xx xx*
900	EA10F0 *xx xx*

Model	Code
935	EA11G0 *xx xx*
1000	EA10G0 *xx xx*
1135	EA11H0 *xx xx*
1200	EA10H0 *xx xx*
1400	EA10I0 *xx xx*
1435	EA11I0 *xx xx*
1600	EA10L0 *xx xx*
1735	EA11L0 *xx xx*
1800	EA10M0 *xx xx*
1935	EA11M0 *xx xx*
2000	EA10N0 *xx xx*

Model with support	Code
1000	EA30G0 *xx xx*
1135	EA31H0 *xx xx*
1200	EA30H0 *xx xx*
1400	EA30I0 *xx xx*
1435	EA31I0 *xx xx*
1600	EA30L0 *xx xx*
1735	EA31L0 *xx xx*
1800	EA30M0 *xx xx*
1935	EA31M0 *xx xx*
2000	EA30N0 *xx xx*

COLOURS

See table on the following page

Item	Description	Colour	Code
	Fixing kit with pincers + plugs and adapters: 1 Flat ½ bleed valve 2 Plastic covers 1 Flat ½ plug 2 ½ Rh adapters 2 ½ Lh adapters 3 Metal sheet brackets 3 White plastic covers (*) 3 Rh pincers 3 Lh pincers 4 1" O-ring seals 1 Retainer rubber cap	PURE WHITE RAL 9010	550122
		NEUTRAL WHITE	55012206
		SILVER	55012207
		BRONZE	55012208
		LIGHT SHELL	55012209
		LIGHT GREY	55012210
		MIDNIGHT BLUE	55012211
		MIDNIGHT GREEN	55012212
		CHOCOLATE	55012213
		CINNAMON	55012214
		DUSTY ROSE	55012215
		FOREST GREEN	55012216
		THE FONDITAL RED	550122BL
		SLATE GREY	550122E
		BLACK RAVEN	550122L
		GRAPHITE	550122R
		BLACK COFFEE	550122V

(*) Only for the colours PURE WHITE RAL 9010 and NEUTRAL WHITE.

Item		Description	Code
	-	Towel rail kit with decoration of 237 mm	570125
		Towel rail kit with decoration of 337 mm	570126
		Towel rail kit with decoration of 437 mm	570127
		Towel rail kit with decoration of 537 mm	570128
	A 30/2	Lockshield plug for Mood - Tribeca 50 mm (water diaphragm)	521011M
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 74	Horizontal installation mounting kit, white finish, set of 4	550120
	A 75	Horizontal installation mounting kit, chrome finish, set of 4	550121

For other accessories, see from page 325



PURE WHITE RAL 9010
Cod.04

NEUTRAL WHITE
Cod.06

SILVER
Cod.07

GRAPHITE
Cod.3R

SLATE GREY
Cod.3B

BLACK COFFEE
Cod.3V

BRONZE
Cod.08



LIGHT SHELL
Cod.09

LIGHT GREY
Cod.10

MIDNIGHT GREEN
Cod.12

MIDNIGHT BLUE
Cod.11

BLACK RAVEN
Cod.3L

CHOCOLATE
Cod.13

CINNAMON
Cod.14

FOREST GREEN
Cod.16

DUSTY ROSE
Cod.15



THE FONDITAL RED
Cod.2A

The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.

Tribeca Aleternum®



STYLE: FOREST GREEN



SPECIAL: HAMMERED BLACK

- **Low thermal inertia**
- **Low water content**
- **Aleternum patent**
- **16 bar** **Maximum working pressure**
- **Available in 18 colors**

CE 14

WARRANTY 15 YEARS WARRANTY

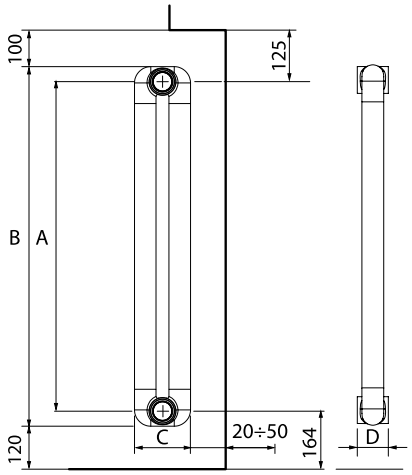
Tribeca radiator: without decoration.



For technical reasons, in order to ensure the internal Aleternum protection, it is suggested to purchase batteries in the composition needed. Disassembling batteries is strongly not recommended.

All models **Tribeca** are guaranteed **15 years** from installation date on manufacturing faults, provided that the installation has been performed in compliance with the current norms and respecting the instructions relating to the installation, the correct use and the correct maintenance as illustrated on this catalogue.

Standard supply	235 - 335 - 350 - 435 500 - 535 - 600	from 4 to 20 elements
	685 - 700 - 800 - 835	from 4 to 16 elements
	900 - 935 - 1000 - 1135 1200 - 1400 - 1435 1600 - 1735 - 1935	from 4 to 9 elements
	1800 - 2000	from 4 to 12 elements
Colours	see colours table	
Maximum working pressure	16 bar	
Test pressure	24 bar	
Aleternum treatment	Supplied as standard	



MEASURES EXPRESSED IN MILLIMETRES

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
235	9,6	16,0	23,1	30,6	38,6	46,9
335	12,5	21,1	30,5	40,5	51,1	62,3
350	13,0	21,8	31,5	41,9	52,9	64,4
435	15,2	25,6	37,1	49,4	62,5	76,1
500	16,9	28,5	41,3	55,1	69,7	85,0
535	17,8	30,1	43,6	58,2	73,6	89,8
600	19,5	32,9	47,8	63,8	80,8	98,6
685	21,6	36,6	53,3	71,2	90,2	110,2
700	22,0	37,3	54,2	72,5	91,8	112,2
800	24,5	41,6	60,6	81,1	102,8	125,8
835	25,4	43,1	62,8	84,1	106,7	130,5
900	27,0	45,9	67,0	89,7	113,9	139,3

Model	Heat output					
	ΔT 20	ΔT 30	ΔT 40	ΔT 50	ΔT 60	ΔT 70
	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.	W/sect.
935	27,9	47,5	69,2	92,7	117,7	144,0
1000	29,6	50,3	73,4	98,3	124,9	152,8
1135	33,0	56,2	82,0	110,0	139,8	171,2
1200	34,6	59,9	87,5	115,7	149,3	182,8
1400	39,7	67,9	99,2	133,3	169,6	207,9
1435	40,7	69,5	101,6	136,4	173,5	212,7
1600	45,1	77,1	112,6	151,2	192,3	235,6
1735	48,9	83,4	121,8	163,4	207,8	254,6
1800	50,7	86,4	126,3	169,4	215,4	263,9
1935	54,5	92,9	135,7	181,9	231,3	283,3
2000	56,4	96,1	140,2	188,1	239,0	292,7

Model	Depth	Height	Centre distance	Length	Connection diameters	Water capacity	Exponent	Coefficient
	(C) mm	(B) mm	(A) mm	(D) mm/sect.	inches	litres/sect.	n	Km
235	90	284	235	50	G1	0,43	1,2665	0,2158
335	90	384	335	50	G1	0,58	1,2792	0,2718
350	90	399	350	50	G1	0,71	1,2800	0,2799
435	90	484	435	50	G1	0,85	1,2849	0,3243
500	90	549	500	50	G1	0,95	1,2885	0,3566
535	90	584	535	50	G1	1,00	1,2905	0,3734
600	90	649	600	50	G1	1,10	1,2942	0,4037
685	90	734	685	50	G1	1,15	1,2990	0,4418
700	90	749	700	50	G1	1,18	1,2999	0,4484
800	90	849	800	50	G1	1,34	1,3055	0,4907
835	90	884	835	50	G1	1,38	1,3075	0,5050
900	90	949	900	50	G1	1,50	1,3091	0,5353
935	90	984	935	50	G1	1,56	1,3100	0,5514
1000	90	1049	1000	50	G1	1,66	1,3115	0,5812
1135	90	1184	1135	50	G1	1,88	1,3149	0,6420
1200	90	1249	1200	50	G1	1,98	1,3164	0,6709
1400	90	1449	1400	50	G1	2,28	1,3213	0,7583
1435	90	1484	1435	50	G1	2,36	1,3210	0,7771
1600	90	1649	1600	50	G1	2,60	1,3192	0,8673
1735	90	1784	1735	50	G1	2,85	1,3178	0,9430
1800	90	1849	1800	50	G1	2,95	1,3171	0,9801
1935	90	1984	1935	50	G1	3,10	1,3156	1,0585
2000	90	2049	2000	50	G1	3,22	1,3150	1,0970

Maximum working pressure: 1600 kpa (16 bar) Maximum working temperature: 120 °C

Characteristic equation of the model $\Phi=Km\ \Delta T^n$

The thermal efficiency values shown comply with the European Standard EN 442-1:2014 and are certified by the MRT Lab of the Milan Polytechnic, notified body №1695.

fondital

CODE OBTAINING EXAMPLE

Tribeca radiator 600 from 10 sections PURE WHITE RAL 9010 colour
Ex: **EA20C0 + 04 + 10**

Tribeca radiator 600 from 12 sections SILVER colour
Ex: **EA20C0 + 07 + 12**

To obtain the radiator code, it is necessary to add the code to the four final digits relating to the colour and number of elements.

Model	Code
235	EA21A0 *xx xx*
335	EA21B0 *xx xx*
350	EA20A0 *xx xx*
435	EA21C0 *xx xx*
500	EA20B0 *xx xx*
535	EA21D0 *xx xx*
600	EA20C0 *xx xx*
685	EA21E0 *xx xx*

Model	Code
700	EA20D0 *xx xx*
800	EA20E0 *xx xx*
835	EA21F0 *xx xx*
900	EA20F0 *xx xx*
935	EA21G0 *xx xx*
1000	EA20G0 *xx xx*
1135	EA21H0 *xx xx*
1200	EA20H0 *xx xx*

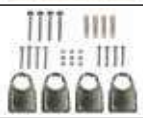
Model	Code
1400	EA20I0 *xx xx*
1435	EA21I0 *xx xx*
1600	EA20L0 *xx xx*
1735	EA21L0 *xx xx*
1800	EA20M0 *xx xx*
1935	EA21M0 *xx xx*
2000	EA20N0 *xx xx*

COLOURS

See table on the following page

Item	Description	Colour	Code
	Fixing kit with pincers + plugs and adapters: 1 Flat ½ bleed valve 2 Plastic covers 1 Flat ½ plug 2 ½ Rh adapters 2 ½ Lh adapters 3 Metal sheet brackets 3 White plastic covers (*) 3 Rh pincers 3 Lh pincers 4 1" O-ring seals 1 Retainer rubber cap	PURE WHITE RAL 9010	550122
		NEUTRAL WHITE	55012206
		SILVER	55012207
		BRONZE	55012208
		LIGHT SHELL	55012209
		LIGHT GREY	55012210
		MIDNIGHT BLUE	55012211
		MIDNIGHT GREEN	55012212
		CHOCOLATE	55012213
		CINNAMON	55012214
		DUSTY ROSE	55012215
		FOREST GREEN	55012216
		HAMMERED BLACK	55012217
		THE FONDITAL RED	550122BL
		SLATE GREY	550122E
		BLACK RAVEN	550122L
		GRAPHITE	550122R
		BLACK COFFEE	550122V

(*) Only for the colours PURE WHITE RAL 9010 and NEUTRAL WHITE.

Item		Description	Code
	-	Towel rail kit with decoration of 237 mm	570125
		Towel rail kit with decoration of 337 mm	570126
		Towel rail kit with decoration of 437 mm	570127
		Towel rail kit with decoration of 537 mm	570128
	A 30/2	Lockshield plug for Mood - Tribeca 50 mm (water diaphragm)	521011M
	A 32/1	O-ring seal for nipples, plugs and adapters	530102
	A 33/1	Nipple for home furnishing radiators	521012
	A 74	Horizontal installation mounting kit, white finish, set of 4	550120
	A 75	Horizontal installation mounting kit, chrome finish, set of 4	550121

For other accessories, see from page 325

CLASSIC

PURE WHITE RAL 9010
Cod.04

NEUTRAL WHITE
Cod.06



SILVER
Cod.07



GRAPHITE
Cod.3R



SLATE GREY
Cod.3B



BLACK COFFEE
Cod.3V



BRONZE
Cod.08

STYLE

LIGHT SHELL
Cod.09



LIGHT GREY
Cod.10



MIDNIGHT GREEN
Cod.12



MIDNIGHT BLUE
Cod.11



BLACK RAVEN
Cod.3L



CHOCOLATE
Cod.13



CINNAMON
Cod.14



FOREST GREEN
Cod.16



DUSTY ROSE
Cod.15

SPECIAL



THE FONDITAL RED
Cod.2A



HAMMERED BLACK
Cod.17

The colours shown are merely indicative and not binding, as they may slightly differ, due to the printing process.



RADIATOR ACCESSORIES

Accessories on request ..... page 326
Fittings for copper pipes ..... page 330
Fittings for multilayer pipes ..... page 331
Fittings for polyethylene pipes ..... page 333
Thermostatic head ..... page 333

ACCESSORIES ON REQUEST

Item		Description	Code
	A 1/1	Rh 1"G automatic air-purging valve. Chromed (always to be installed with the vent in upward position)	520201
		Lh 1"G automatic air-purging valve. Chromed (always to be installed with the vent in upward position)	520202
	A 4/1	Rh G 1" closing plug, galvanized and painted	525014
		Lh G 1" closing plug, galvanized and painted	525114
	A 6/1	Rh adapter 3/8 - Colour: White	526014
		Lh adapter 3/8 - Colour: White	526114
		Rh adapter 1/2 - Colour: White	526214
		Lh adapter 1/2 - Colour: White	526314
		Rh adapter 3/4 - Colour: White	526414
		Lh adapter 3/4 - Colour: White	526514
	A 8/1	Rh 1/4 valve plug - Colour: White	525214
		Lh 1/4 valve plug - Colour: White	525314
		Rh 1/8 valve plug - Colour: White	525414
		Lh 1/8 valve plug - Colour: White	525514
	A 13 (*)	Touch-up spray 400 ml - Colour: White RAL 9010	540024
	(*)	Touch-up spray 400 ml - Colour: Neutral White	55015706
		Touch-up spray 400 ml - Colour: Silver	55015707
		Touch-up spray 400 ml - Colour: Bronze	55015708
		Touch-up spray 400 ml - Colour: Light Shell	55015709
		Touch-up spray 400 ml - Colour: Light Grey	55015710
		Touch-up spray 400 ml - Colour: Midnight Blue	55015711
		Touch-up spray 400 ml - Colour: Midnight Green	55015712
		Touch-up spray 400 ml - Colour: Chocolate	55015713
		Touch-up spray 400 ml - Colour: Cinnamon	55015714
		Touch-up spray 400 ml - Colour: Dusty Rose	55015715
		Touch-up spray 400 ml - Colour: Forest Green	55015716
		Touch-up spray 400 ml - Colour: Hammered Black	55015717
		Touch-up spray 400 ml - Colour: The Fondital Red	5501572A
		Touch-up spray 400 ml - Colour: Slate Grey	5501573B
		Touch-up spray 400 ml - Colour: Black Raven	5501573L
		Touch-up spray 400 ml - Colour: Graphite	5501573R
		Touch-up spray 400 ml - Colour: Black Coffee	5501573V
	A 16	175 mm Wall anchor bracket	550020
	A 18	Rh bracket to be screwed on to the wall	550035
		Lh bracket to be screwed on to the wall	550036
	A 26/1	Nipple wrench 1"G	550090
	A 27	Nipple metal wrench 1" (100 cm) without lever	550093
	-	Nipple metal wrench kit 1" and ¾" (50 cm) with lever and plastic wrench for plugs	550092
	A 40/2	Plastic wrench	560257
	A 52	G½" air valve, chromed	520203
	-	½"Blind plug	525602

Accessories for all radiators except Cool model.
The 400 ml touch-up spray items can also be used with the Cool model.
(*) The touch-up spray can be used to correct small defects. For proper use, clean the surface and, once dry, apply the spray.

ALFA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome	Colour Gold
	Code	Code	Code
Angle valve, iron pipe connection	8493051	8493052	8493053
Straight valve, iron pipe connection	8493061	8493062	8493063
Angle lockshield valve, iron pipe connection	8493031	8493032	8493033
Straight lockshield retainer, iron pipe connection	8493041	8493042	8493043
Angle valve retainer, copper/PE/multilayer pipe connection	8493151	8493152	8493153
Straight valve, copper/PE/multilayer pipe connection	8493161	8493162	8493163
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493131	8493132	8493133
Straight lockshield retainer, copper/PE/multilayer pipe connection	8493141	8493142	8493143



BETA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome
	Code	Code
Angle valve, iron pipe connection	8483351	8483352
Straight valve, iron pipe connection	8483361	8483362
Angle lockshield valve, iron pipe connection	8493531	8493532
Straight lockshield retainer, iron pipe connection	8493541	8493542
Angle valve retainer, copper/PE/multilayer pipe connection	8483451	8483452
Straight valve, copper/PE/multilayer pipe connection	8483461	8483462
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493631	8493632
Straight lockshield retainer, copper/PE/multilayer pipe connection	8493641	8493642



Accessories for all radiators except Cool model with central connection and Garda model with central connection.

GAMMA series valve ½" connection (Valves supplied without fitting)

Description	Colour White - Chrome	Colour Chrome
	Code	Code
Angle valve, iron pipe connection	8484351	8484352
Straight valve, iron pipe connection	8484361	8484362
Angle lockshield valve, iron pipe connection	8494531	8494532
Straight lockshield retainer, iron pipe connection	8494541	8494542
Angle valve retainer, copper/PE/multilayer pipe connection	8484451	8484452
Straight valve, copper/PE/multilayer pipe connection	8484461	8484462
Angle lockshield retainer, copper/PE/multilayer pipe connection	8494631	8494632
Straight lockshield retainer, copper/PE/multilayer pipe connection	8494641	8494642



TONDERA series valves ½" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome
	Code	Code
Angle valve with thermostat option, copper and multilayer pipe connection, non-drip end	8496131	8496132
Thermostatic angle valve, copper and multilayer pipe connection, non-drip end	8496331	8496332
Manual adjustment angle valve, copper and multilayer pipe connection, non-drip end	8496231	8496232
Angle lockshield valve, copper and multilayer pipe connection, non-drip end	8496731	8496732
Straight valve with thermostat option, copper and multilayer pipe connection, non-drip end	8496151	8496152
Thermostatic straight valve, copper and multilayer pipe connection, non-drip end	8496351	8496352
Manual adjustment straight valve, copper and multilayer pipe connection, non-drip end	8496251	8496252
Straight lockshield valve, copper and multilayer pipe connection, non-drip end	8496751	8496752



MINIMAL series valves ½" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome
	Code	Code
Angle valve with thermostat option, interchangeable copper and multilayer pipe connection, non-drip end	8493851	8493852
Thermostatic angle valve, interchangeable copper and multilayer pipe connection, non-drip end	8493651	8493652
Angle lockshield retainer, copper/PE/multilayer pipe connection	8493631	8493632
Angle valve with thermostat option, iron pipe connection, non-drip end	8493751	8493752
Thermostatic angle valve, iron pipe connection, non-drip end	8493551	8493552
Angle lockshield valve, iron pipe connection	8493531	8493532



Accessories for all radiators except Cool model with central connection and Garda model with central connection.

LIBERTY series valve ½" connection (Valves supplied without fitting) *

Description	Colour White	Colour RAL 1036	Colour Cast iron	Colour Bronze
	Code	Code	Code	Code
Angle valve, iron pipe connection, non-drip end	8493251	8493256	8493254	8493255
Angle lockshield valve, iron pipe connection, non-drip end	8493231	8493236	8493234	8493235



* An adapter is required for copper multilayer pipes

Description	Colour Gold *	Colour Bronze
	Code	Code
Adapter for copper and multilayer LIBERTY series pipes Pipe size (Ø mm) 3/4" x 24/19	8493283	8493285

* Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

OLD STYLE series valve ½" connection (Valves supplied without fitting)

Description	Colour White	Colour Chrome	Colour Bronze
	Code	Code	Code
Thermostatic angle valve, iron pipe connection, non-drip end	8493671	8493672	8493675
Angle valve, iron pipe connection, non-drip end	8493371	8493372	8493375
Angle lockshield valve, iron pipe connection, non-drip end	8493411	8493412	8493415
Thermostatic straight valve, iron pipe connection, non-drip end	8493681	8493682	8493685
Straight valve, iron pipe connection, non-drip end	8493381	8493382	8493385
Straight lockshield valve, iron pipe connection, non-drip end	8493421	8493422	8493425
Thermostatic angle valve, copper and multilayer pipe connection, non-drip end	8493691	8493692	8493695
Angle valve, copper and multilayer pipe connection, non-drip end	8493391	8493392	8493395
Angle lockshield valve, copper and multilayer pipe connection, non-drip end	8493431	8493432	8493435
Thermostatic straight valve, copper and multilayer pipe connection, non-drip end	8493701	8493702	8493705
Straight valve, copper and multilayer pipe connection, non-drip end	8493401	8493402	8493405
Straight lockshield valve, copper and multilayer pipe connection, non-drip end	8493441	8493442	8493445



Accessories for all radiators except Cool model with central connection and Garda model with central connection.

FITTINGS FOR COPPER PIPES

Fittings for copper pipes for **ALFA, BETA and MINIMAL** series valves

Pipe size	Colour Chrome	Colour Gold
(Ø mm)	Code	Code
10	849381210	849381310
12	849381212	849381312
14	849381214	849381314

Pipe size	Colour Chrome	Colour Gold
(Ø mm)	Code	Code
15	849381215	849381315
16	849381216	849381316
18	849381218	849381318



Fittings for copper pipes for **GAMMA** and **TONDERA** series valves

Pipe size	Colour Chrome
(Ø mm)	Code
10	849481210
12	849481212
14	849481214

Pipe size	Colour Chrome
(Ø mm)	Code
15	849481215
16	849481216
18	849481218



Fittings for copper pipes for **LIBERTY** series valves

Pipe size	Colour Gold *	Colour Bronze
(Ø mm)	Code	Code
10	849381310	849381510
12	849381312	849381512
14	849381314	849381514

Pipe size	Colour Gold *	Colour Bronze
(Ø mm)	Code	Code
15	849381315	849381515
16	849381316	849381516
18	849381318	849381518



* Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

Fittings for copper pipes for **OLD STYLE** series valves

Pipe size	Colour Chrome *	Colour Bronze
(Ø mm)	Code	Code
10	849481210	849481510
12	849481212	849481512
14	849481214	849481514

Pipe size	Colour Chrome *	Colour Bronze
(Ø mm)	Code	Code
15	849481215	849481515
16	849481216	849481516
18	849481218	849481518



* Can be used with valves and lockshield valves in chrome and white

FITTINGS FOR MULTILAYER PIPES

Fittings for multilayer pipes for **ALFA** and **BETA** series valves

Pipe size	Connection	Colour Chrome	Colour Gold
(Ø int. - Ø ext.)		Code	Code
9,5/10-14	24 - 19	849383210	849383310
11,5/12-16	24 - 19	8493832115	8493833115



Fittings for multilayer pipes for **GAMMA** and **TONDERA** series valves

Pipe size	Connection	Colour Chrome
(Ø int. - Ø ext.)		Code
7,5/8-12	24 - 19	84948320812
9,5/10-14	24 - 19	849483210
9,5/10-15	24 - 19	84948321015
10,5/11-15	24 - 19	84948321115
10,5/11-16	24 - 19	84948321116
11,5/12-16	24 - 19	8494832115

Pipe size	Connection	Colour Chrome
(Ø int. - Ø ext.)		Code
11,5/12-17	24 - 19	84948321217
12,5/13-17	24 - 19	84948321317
12,5/13-18	24 - 19	84948321318
13,5/14-18	24 - 19	84948321418
14,5/15-20	24 - 19	84948321520
15/15,5-20	24 - 19	849483215520
15,5/16-20	24 - 19	84948321620



Fittings for multilayer pipes for **LIBERTY** series valves

Pipe size	Connection	Colour Gold *	Colour Bronze
(Ø int. - Ø ext.)		Code	Code
7,5/8-12	24 - 19	84938330812	84938350812
9,5/10-14	24 - 19	849383310	84938351014
9,5/10-15	24 - 19	84938331015	84938351015
10,5/11-15	24 - 19	84938331115	84938351115
10,5/11-16	24 - 19	84938331116	84938351116
11,5/12-16	24 - 19	8493833115	84938351216
11,5/12-17	24 - 19	84938331217	84938351217
12,5/13-17	24 - 19	84938331317	84938351317
12,5/13-18	24 - 19	84938331318	84938351318
13,5/14-18	24 - 19	84938331418	84938351418
14,5/15-20	24 - 19	84938331520	84938351520
15/15,5-20	24 - 19	849383315520	849383515520
15,5/16-20	24 - 19	84938331620	84938351620



* Can be used with valves and lockshield valves in white, RAL 1036 and cast iron

Fittings for multilayer pipes for **MINIMAL** series valves

Pipe size	Connection	Colour Chrome
(Ø int. - Ø ext.)		Code
7,5/8-12	24 - 19	84938320812
9,5/10-14	24 - 19	849383210
9,5/10-15	24 - 19	84938321015
10,5/11-15	24 - 19	84938321115
10,5/11-16	24 - 19	84938321116
11,5/12-16	24 - 19	8493832115

Pipe size	Connection	Colour Chrome
(Ø int. - Ø ext.)		Code
11,5/12-17	24 - 19	84938321217
12,5/13-17	24 - 19	84938321317
12,5/13-18	24 - 19	84938321318
13,5/14-18	24 - 19	84938321418
14,5/15-20	24 - 19	84938321520
15/15,5-20	24 - 19	849383215520
15,5/16-20	24 - 19	84938321620



Fittings for multilayer pipes for **OLD STYLE** series valves

Pipe size	Connection	Colour Bronze
(Ø int. - Ø ext.)		Code
7,5/8-12	24 - 19	84948350812
9,5/10-14	24 - 19	84948351014
9,5/10-15	24 - 19	84948351015
10,5/11-15	24 - 19	84948351115
10,5/11-16	24 - 19	84948351116
11,5/12-16	24 - 19	84948351216
11,5/12-17	24 - 19	84948351217
12,5/13-17	24 - 19	84948351317
12,5/13-18	24 - 19	84948351318
13,5/14-18	24 - 19	84948351418
14,5/15-20	24 - 19	84948351520
15/15,5-20	24 - 19	849483515520
15,5/16-20	24 - 19	84948351620

Pipe size	Connection	Colour Chrome
(Ø int. - Ø ext.)		Code
7,5/8-12	24 - 19	84948320812
9,5/10-14	24 - 19	849483210
9,5/10-15	24 - 19	84948321015
10,5/11-15	24 - 19	84948321115
10,5/11-16	24 - 19	84948321116
11,5/12-16	24 - 19	8494832115
11,5/12-17	24 - 19	84948321217
12,5/13-17	24 - 19	84948321317
12,5/13-18	24 - 19	84948321318
13,5/14-18	24 - 19	84948321418
14,5/15-20	24 - 19	84948321520
15/15,5-20	24 - 19	849483215520
15,5/16-20	24 - 19	84948321620



FITTINGS FOR POLYETHYLENE PIPES

Fittings for polyethylene pipes for **ALFA** and **BETA** series valves

Pipe size	Colour Chrome
(Ø int. - Ø ext.)	Code
12 - 16	849382212
13 - 18	849382213
14 - 18	849382214

Pipe size	Colour Gold
(Ø int. - Ø ext.)	Code
12 - 16	849382312
13 - 18	849382313
14 - 18	849382314



Fittings for polyethylene pipes for **GAMMA** series valves

Pipe size	Colour Chrome
(Ø int. - Ø ext.)	Code
12 - 16	849482212
13 - 18	849482213
14 - 18	849482214



THERMOSTATIC HEAD

Thermostatic head for **BETA, GAMMA, TONDERA** and **MINIMAL** series valves

Description	Colour White - Chrome
	Code
Thermostatic head for BETA, GAMMA, TONDERA and MINIMAL with liquid sensor	8480931





ELECTRIC RADIATORS

eBlitz Wi-Fi page 336
eBlitz Core page 338
eBlitz Soft page 339
eCool ED page 340
Dalisa page 341
eGarda2 page 342
Resia page 344

eBlitz Wi-Fi

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- **Radiator manageable remotely via Android and Apple smartphones by downloading the Domus One App**
- **Compatible with Google Home and Alexa**
- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Backlight LCD interface incorporated**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming with Adaptive Start Control
  - Open window detection function
  - Consumption display
- **Safety:**
  - Keyboard lock
  - Built-in ON / OFF switch
  - Power reserve >2h
- **Fixing system included**

CLASSE II

Double isolation



The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:
- Phase
- Neutral
- Pilot wire

Model	Code for Pilot Wire	Power	Sections	Voltage	Frequency	Length	Height	Depth
		W	num.	V	Hz	mm	mm	mm
750	FBG0M1XR84	750	4	230	50/60	390	583	80
1000	FBG0M1XRA5	1000	5	230	50/60	470	583	80
1250	FBG0M1XRD7	1250	7	230	50/60	630	583	80
1500	FBG0M1XRF9	1500	9	230	50/60	790	583	80
1800	FBG0M1XRIB	1800	11	230	50/60	950	583	80

DISCOVER THE **DOMUS ONE APP!**

Download the App from Google Play or the App Store. You will be able to control the operation of your heaters remotely, optimizing consumption and achieving maximum comfort.





OPEN WINDOW DETECTION

By identifying an open window in the room, the radiator turns off automatically, avoiding energy wastage

ADAPTIVE START CONTROL

When in Program mode, this smart function will start the radiator at the perfect time based on the current room temperature

PROGRAM

Easily set a 24/7 heating schedule for your radiators

TEMPERATURES SET-UP

Customise the Max, Comfort and Eco temperatures

MODE

- Temporary (Boost)
- Manual (Simple)
- Program

SECURITY LOCK

Lock and unlock the radiators remotely to prevent tampering and assure children's safety

TEMPERATURES MONITORING

Monitor the room temperature trend thanks to real-time charts

GROUPS OF DEVICES

Arrange the radiators into groups and control multiple heaters at the same time



eBlitz Core

CERAMIC CORE ELECTRIC RADIATOR



- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Backlight LCD interface incorporated**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming with Adaptive Start Control
  - Open window detection function
  - Consumption display
- **Safety:**
  - Keyboard lock
  - Power reserve >2h
- **Fixing system included**

CE

CLASSE II

Double isolation

UK CA



The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:
- Phase
- Neutral
- Pilot wire

Model	Code for Pilot Wire	Power	Sections	Voltage	Frequency	Length	Height	Depth
		W	num.	V	Hz	mm	mm	mm
1000	FBZ0M7FDA5	1000	5	230	50/60	473	577	97
1500	FBZ0M7FDF7	1500	7	230	50/60	628	577	97
2000	FBZ0M7FDK9	2000	9	230	50/60	788	577	97

eBlitz Soft

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Backlight LCD interface incorporated**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming with Adaptive Start Control
  - Open window detection function
  - Consumption display
- **Safety:**
  - Keyboard lock
  - Power reserve >2h
- **Fixing system included**

CE

CLASSE II

Double isolation

UK CA



The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:
- Phase
- Neutral
- Pilot wire

Model	Code for Pilot Wire	Power	Sections	Voltage	Frequency	Length	Height	Depth
		W	num.	V	Hz	mm	mm	mm
500	FBH0M1XD54	500	4	230	50/60	395	577	97
750	FBH0M1XD85	750	5	230	50/60	475	577	97
1000	FBH0M1XDA6	1000	6	230	50/60	555	577	97
1250	FBH0M1XDD8	1250	8	230	50/60	715	577	97
1500	FBH0M1XDF9	1500	9	230	50/60	795	577	97
1800	FBH0M1XDIC	1800	12	230	50/60	1035	577	97

fondital

eCool ED

ELECTRIC TOWEL RADIATOR WITH DIGITAL CONTROL



- **Aluminium alloy body: with low thermal inertia**
- **LCD backlight interface**
- **Daily and weekly programming options**
- **Open window detection function**
- **Child safety lock**
- **Fixing system included**
- **Schuko plug**
- **Anticorrosion internal treatment Aleternum® provided**





UK or Schuko plug available

CLASSE II

Double isolation

Model	Code for Schuko Plug	Code for UK Plug	Power	Voltage	Frequency	Length	Height	Depth
			W	V	Hz	mm	mm	mm
300	FCA0M1YD30	FCAI21YD30	300	230	50/60	478	933	45
500	FCA0M1YD50	FCAI21YD50	500	230	50/60	528	1143	45
700	FCA0M1YD70	FCAI21YD70	700	230	50/60	528	1563	45
1000	FCA0M1YDA0	FCAI21YDA0	1000	230	50/60	628	1815	45

Item	Description	Code
	Infrared remote control with wall support (Batteries not included) Features: Comfort, Night, Antifreeze and Stand-by	0ZTELINF01

Dalisa

DUAL HEATING SYSTEM ELECTRIC RADIATOR







CE

CLASSE II

Double isolation

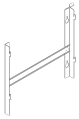


Power wire:
- Phase
- Neutral
- Pilot wire

- **Dual heating system::**
  - Dry cast-iron heating element + heated front panel
- **Quickly reaches the desired temperature**
- **Colours: White RAL 9010 and Anthracite grey**
- **Interface with colour graphic display.**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming options
  - Open window detection function
  - Presence detection function
  - Consumption display
- **Safety:**
  - Keypad lock

Model	Code for Pilot Wire	Power	Voltage	Frequency	Length	Height	Depth	Net weight	Colour
		W	V	Hz	mm	mm	mm	kg	
1000	FDD0M6EDA0	1000	230	50	626	505	98	17,7	White
1500	FDD0M6EDF0	1500	230	50	790	505	98	24,4	White
2000	FDD0M6EDK0	2000	230	50	930	505	98	29,2	White
N 1000	FDE0M6EDA0	1000	230	50	626	505	98	17,7	Antracite
N 1500	FDE0M6EDF0	1500	230	50	790	505	98	24,4	Antracite
N 2000	FDE0M6EDK0	2000	230	50	930	505	98	29,2	Antracite

INCLUDED IN THE PACKAGING

Item	Description
	Fixing system

eGarda2

FLUID FILLED ELECTRIC RADIATORS





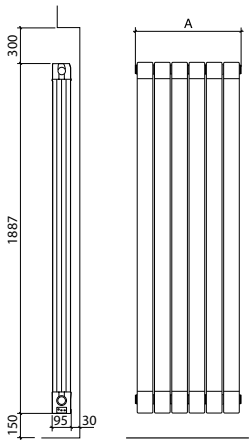
- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Colours: White RAL 9010 and Anthracite grey**
- **Interface with colour graphic display.**
- **NTC temperature probe and electronic temperature regulation**
- **In order to optimise consumption, the radiator provides:**
  - Daily and weekly programming options
  - Open window detection function
  - Consumption display
- **Safety:**
  - Keypad lock



Power wire:
- Phase
- Neutral
- Pilot wire

CLASSE II

Double isolation



MEASURES EXPRESSED IN MILLIMETRES

Model	Code for Pilot Wire	Power	Voltage	Frequency	Colour	Consumption in Standby Mode
		W	V	Hz		
1500	FGD0M1ERF4	1500	230	50	White	< 0,5 W
2000	FGD0M1ERK6	2000	230	50	White	< 0,5 W
N 1500	FGE0M1ERF4	1500	230	50	Antracite	< 0,5 W
N 2000	FGE0M1ERK6	2000	230	50	Antracite	< 0,5 W

Model	Sections	Length	Height	Depth	Net weight	Gross weight
	num.	mm	mm	mm	kg	kg
1500	4	340	1887	95	17,5	20
2000	6	500	1887	95	25,5	29
N 1500	4	340	1887	95	17,5	20
N 2000	6	500	1887	95	25,5	29

INCLUDED IN THE PACKAGE

Item	Description
	Fixing system

Resia

THERMODYNAMIC FLUID FILLED ELECTRIC RADIATOR



- **Best quality / price ratio**
- **Aluminium body:**
  - Quickly reaches the desired temperature
- **Light and easy to install**
- **Modern design and electronics with weekly programming**
- **Energy saving:**
  - Open window detection function
  - Automatic Start Control (ASC)
- **Fixing system included**

Product supplied under the brand name

NOVA FLORIDA

CE

CLASSE II

Double isolation

UK CA



The right side houses the new backlight adjustment and control system with digital display and easy-toreach buttons regardless of installation type.



Power wire:
- Phase
- Neutral
- Pilot wire

Model	Code for Pilot Wire	Power	Sections	Voltage	Frequency	Length	Height	Depth
		W	num.	V	Hz	mm	mm	mm
500 W	FRA0M1ED53	500	3	230	50/60	316	577	83
700 W	FRA0M1ED74	700	4	230	50/60	396	577	83
1000 W	FRA0M1EDA5	1000	5	230	50/60	476	577	83
1500 W	FRA0M1EDF8	1500	8	230	50/60	716	577	83
1800 W	FRA0M1EDIA	1800	10	230	50/60	876	577	83



CONVECTIVE GAS STOVES

Gazelle Evo page 348

Gazelle EVO

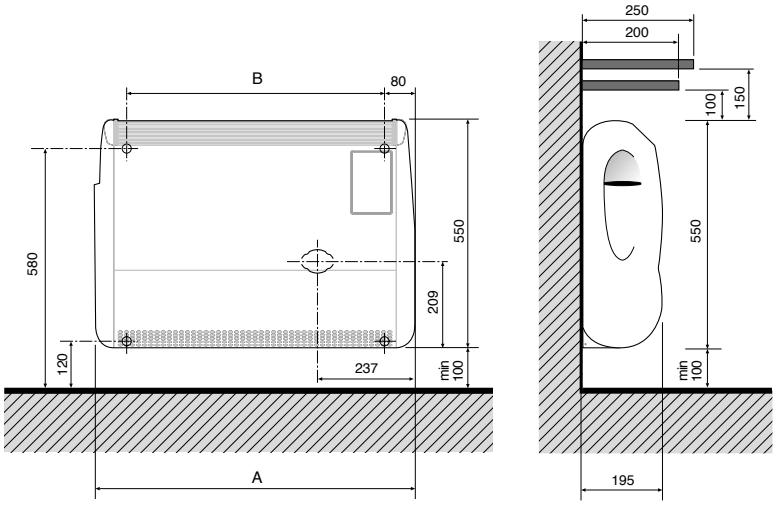


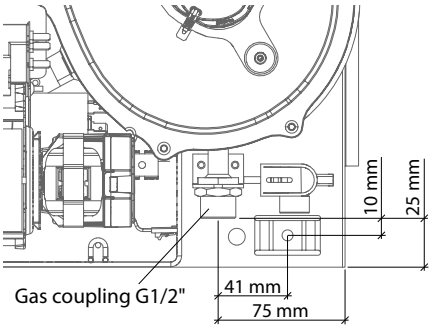


- **Seasonal energy efficiency class A**
- **Heat exchanger body made of die-cast aluminium with heat reducer**
- **User interface with encoder, four buttons, large and backlit LC display**
- **Premix burner with electronic ignition**
- **Fans with brushless motor and high efficiency**
- **Maximum power consumption ≤ 30W**
- **Possibility to connect a remote controller (optional)**
- **Temperature probe complementary (optional)**

WARRANTY 2 YEARS WARRANTY

Available in the following models:
3000 - 5000 - 7000





MEASURES EXPRESSED IN MILLIMETRES

Model	Gas type	Code
3000	NATURAL GAS	GEXX301PR2
	PROPANE	GEXX361PR2
5000	NATURAL GAS	GEXX501PR2
	PROPANE	GEXX561PR2
7000	NATURAL GAS	GEXX701PR2
	PROPANE	GEXX761PR2

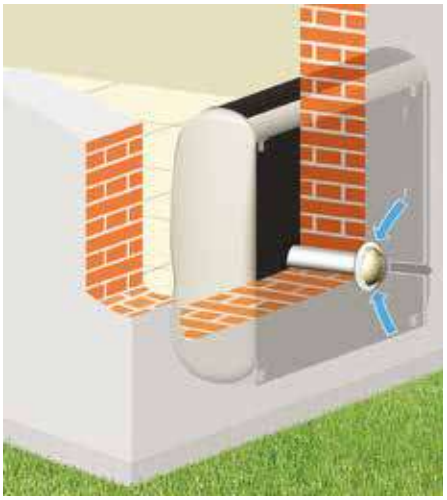
Technical data	um	3000	5000	7000
Type	-	C13, C53	C13, C53	C13, C53
Gas type	-	NATURAL GAS PROPANE	NATURAL GAS PROPANE	NATURAL GAS PROPANE
Size (L x H x D)	-	547x550x195	667x550x195	772x550x195
Gross weight	kg	20,0	24,0	28,0
Seasonal space heating energy efficiency class	-	A	A	A
Seasonal energy efficiency of ambient heating (ηs)	%	89	88	88
Rated heat output (Prated)	kW	2,7	4,5	5,9
Minimum heat output (Pmin)	kW	1,9	2,8	4,2
Efficiency at rated heat output (ηth,nom)	%	93,7	92,2	91,8
Efficiency at reduced heat output (ηth,min)	%	94,5	94,9	94,0
Rated heat input	W	2900	4900	6400
Reduced heat input	W	2000	3000	4500
Rated heat output	W	2720	4520	5880
Reduced heat input	W	1890	2850	4230
Efficiency at rated heat output (Nat. Gas)	%	93,7	92,2	91,8
Efficiency at rated heat output (Propane)	%	93,5	92,3	91,7
Efficiency at reduced heat output (Nat. Gas)	%	94,5	94,9	94,0
Efficiency at reduced heat output (Propane)	%	94,7	95,1	93,8
NOx emission class	-	5	5	5
Power supply voltage/frequency	V/Hz	230 - 50	230 - 50	230 - 50
Maximum absorbed power ERP	W	24	24	30
Electric protection rating	IP	20	20	20
Outside diameter of straight outlet pipes (C13)	mm	2 x 55/2 **	2 x 55/2 **	2 x 55/2 **
Outside diameter of split pipes (C53)	mm	35 or 60	35 or 60	35 or 60
Gas coupling diameter	inches	G 1/2 M	G 1/2 M	G 1/2 M
Standard consumption (Nat. Gas)	-	0,31 m³/h	0,52 m³/h	0,68 m³/h
Standard consumption (Propane)	-	0,23 kg/h	0,38 kg/h	0,50 kg/h

** 2 x 55/2 refers to 2 tubes together (one for air intake and one for flue gas outlet) both the shape of a semicircle with a 55 mm diameter.

For the gas categories of the products contact Fondital S.p.A.

fondital

EXAMPLES OF PIPING APPLICATION FOR AIR INTAKE AND FLUE GAS OUTLET



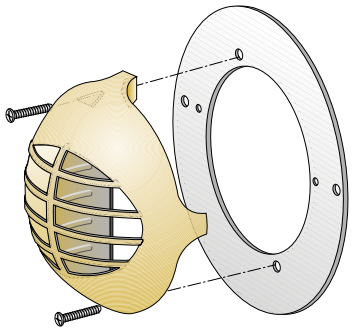
TYPE C 13



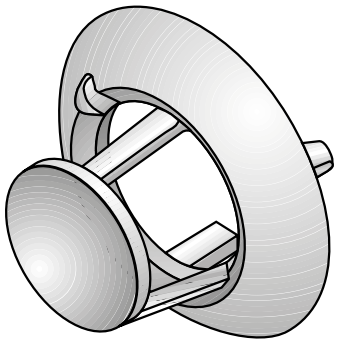
TYPE C 53



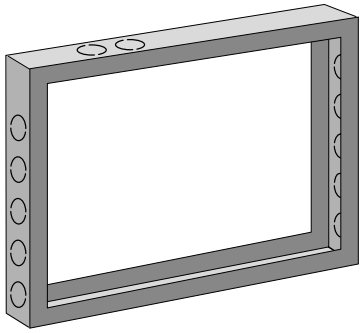
TYPE C 53



STANDARD AIR INTAKE/FLUE GAS OUTLET TERMINAL AND FLANGE



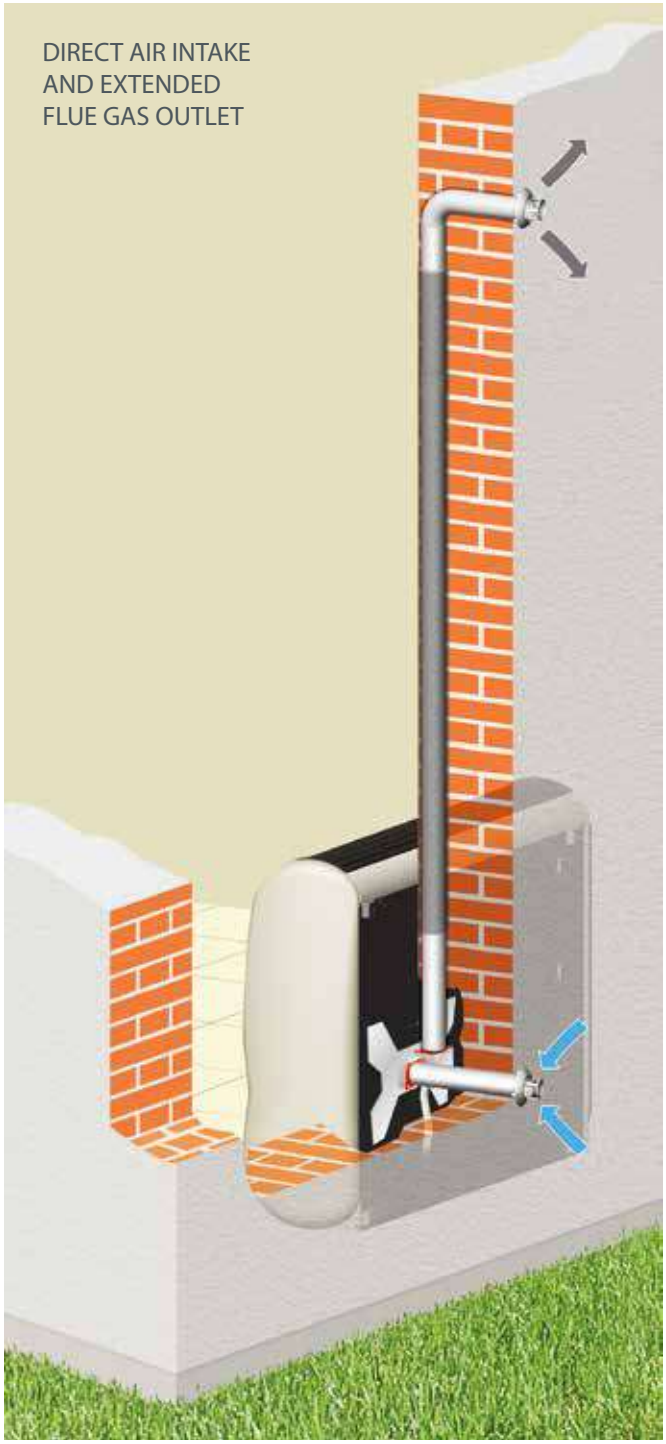
Ø 35 mm AIR INTAKE AND FLUE GAS OUTLET TERMINAL FOR SPLIT PIPES



WALL SPACER COUNTERFRAME

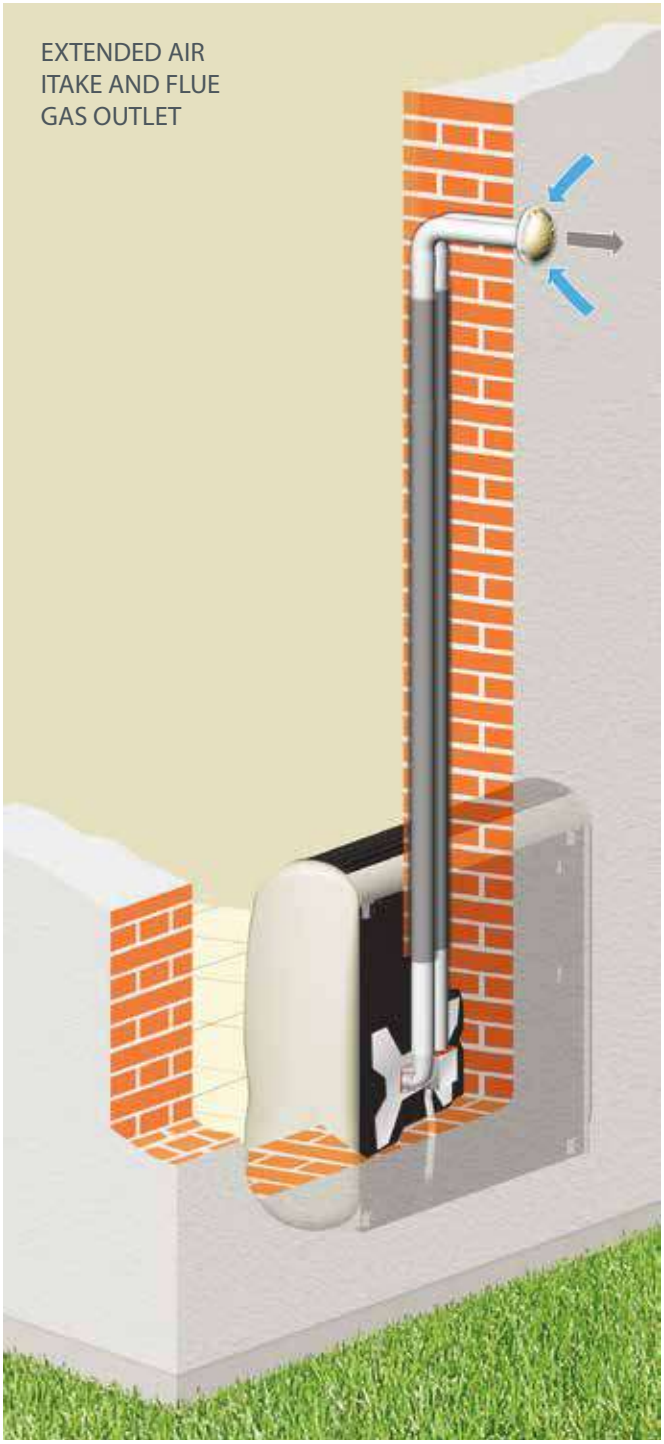
WALL FIXING SYSTEM WITH BRACKET FOR AIR INTAKE AND FLUE GAS OUTLET (SOME EXAMPLES)

DIRECT AIR INTAKE AND EXTENDED FLUE GAS OUTLET



TYPE C 53

EXTENDED AIR ITAKE AND FLUE GAS OUTLET



TYPE C 53

The given examples are purely indicative.

Note: Properly insulate the flue gas outlets and install a condensate drain where needed.





Length of the pipes for air intake and flue gas outlet

The maximum permissible length of the pipes depends of the load loss of the individual parts of the system installed to create the air intake and flue gas outlet of the machine.
The sum of the load loss of each part, based on the figures indicated in table 2 and 3, must not exceed the value of the "Maximum length permitted". The sum must include both the air intake as the flue gas outlet pipes and changes according the diameter of the pipes used (35 mm or 60 mm).

Gazelle Evo	TYPE (***)	um	3000	5000	7000
Lunghezza massima ammessa (*)	C13	m	2 (**)	2 (**)	2 (**)
	C53 - Ø 35 mm	m	13	7	6
	C53 - Ø 35 mm + Ø 60 mm	m	100	100	70

Tab. 1

(*) air intake + flue gas outlet

(**) Use of the pipes supplied by the producer: one for air and one for flue gas, both same semicircle shaped with a 55 mm diameter. Pipes of 1 meter length are available as accessories.

(***) see page 354 and 355.

ATTENTION:

When the pipes used are ENTIRELY of diameter 35 mm, refer to the load loss indicators in table 2.
When the pipes used are of diameter 35 mm and 60 mm, refer to the load loss indicators in table 3.

Load loss through pipes of exclusively diameter 35 mm

Description	Code	3000		5000		7000	
		A	F	A	F	A	F
		m	m	m	m	m	m
Wall safety grid for terminal	6Y41309000	0	0	0	0	0	0
Single wall terminal for Ø 35 mm	6YTERSDO00	0	0,5	0	0,5	0	0,5
Adapter for split flue gas outlet (semicircle / Ø 35 mm)	6YRIDSDO00	0	0	0	0	0	0
Starting elbow for split flue gas outlet Ø 35 mm	6YCURSDO00	0,5	1	0,5	1	0,5	1
Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6YTUBSDO13	0,5	0,5	0,5	0,5	0,5	0,5
Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6YTUBSDO00	0,5	1	0,5	1	0,5	1
90° elbow for Ø 35 mm tube. M/F - Colour: White	6YCURSDO05	0	0	0	0,5	0	0,5
Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	6YSCACON00	0	0	0	0	0	0
Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6YTUBSDO02	0,5	1	0,5	1	0,5	1
Ø 35 mm F/F condensate drain for horizontal installation (complete with seals)	6YSCACON05	0	0	0	0	0	0
Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	6YMANSCA00	0	0	0	0	0	0
90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	6YSCACON06	0,5	1	0,5	1	0,5	1

Tab. 2

A = air intake
F = flue gas outlet

Load loss through pipes of mixed diameter 35 mm and 60 mm

Description	Code	3000		5000		7000	
		A	F	A	F	A	F
		m	m	m	m	m	m
Adapter for split flue gas outlet (semicircle / Ø 35 mm)	6YRIDSDO00	0	0,5	0,5	0,5	0	0,5
Starting elbow for split flue gas outlet Ø 35 mm	6YCURSDO00	8	13,5	11,5	21	7,5	14
Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6YTUBSDO13	4	7,5	5	10	3	6,5
Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6YTUBSDO00	8,5	15	10	20,5	6,5	12,5
90° elbow for Ø 35 mm tube. M/F - Colour: White	6YCURSDO05	2	3,5	3	5	2	3,5
Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	6YSCACON00	1,5	3	2	4	1,5	2,5
Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6YTUBSDO02	9,5	16,5	12	23,5	7,5	15
Ø 60 mm ÷ Ø 35 mm F/M adapter - Colour: White	6YRIDSDO03	0	5,5	0	8,5	0	5,5
Ø 60 mm ÷ Ø 35 mm F/F adapter - Colour: White	6YRIDSDO01	0	5,5	0	8,5	0	5,5
Ø 35 mm F/F condensate drain for horizontal installation (complete with seals)	6YSCACON05	0,5	1	0,5	1,5	0,5	1
Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	6YMANSCA00	0	0,5	0,5	0,5	0	0,5
90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	6YSCACON06	8	13,5	11,5	21	7,5	14
Ø 60 mm pipe length 0.50 m M/F - Colour: White	6YTUBSDO07	0	0,5	0,5	0,5	0,5	0,5
Ø 60 mm pipe length 1.00 m M/F - Colour: White	6YTUBSDO09	0,5	1	1	1	0,5	1
Ø 60 mm pipe length 2.00 m M/F - Colour: White	6YTUBSDO11	1	2	1,5	2	1	2
Ø 60 mm, 90° elbow for pipe M/F - Colour: White	6YCURSDO01	0,5	1	1	2	0,5	1,5
Ø 60 mm, 45° elbow for pipe M/F - Colour: White	6YCURSDO03	0,5	1	1	1,5	0,5	1
Ø 60 mm condensate flue gas outlet M/F - Colour: White	6YSCACON02	0	0	0	0	0	0
Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium)	6YTERCON00	2,5	2,5	3,5	4	2,5	2,5
Ø 60 mm upright flue gas terminal, F (aluminium)	6YTERSCA00	-	2	-	3	-	2
Single wall terminal for Ø 35 mm	6YTERSDO00	0	7	0	11	0	7,5

Tab. 3

A = air intake
F = flue gas outlet

CALCULATION EXAMPLE

With pipe diameter of 35 mm e 60 mm (apply the load loss indicated in table 3)

Gazelle EVO 5000

Split air intake and flue gas outlet pipes Ø 35 mm and Ø 60 mm
Direct air intake behind the appliance
Roof flue gas outlet with pipe length 3 meters
Maximum length allowed: 100 meters

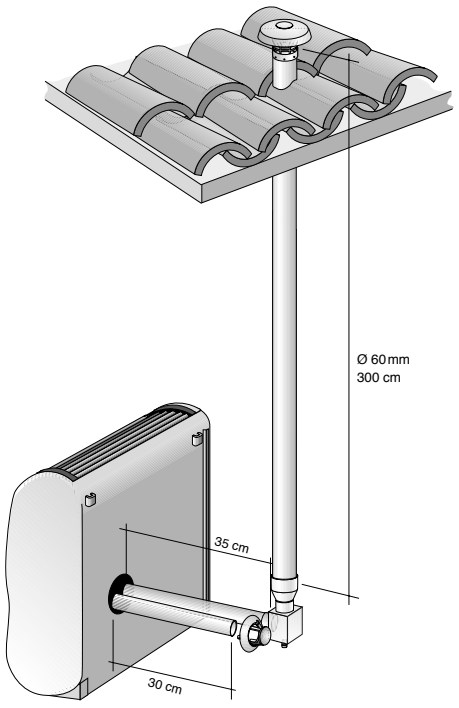
Air intake load loss

Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m
Ø 35 mm double pipe length 30 cm: 10 x 0,30 m = 3,0 m
Single wall terminal for Ø 35 mm: 0,0 m
Total air intake load loss: 3,5 m

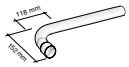
Flue gas outlet load loss

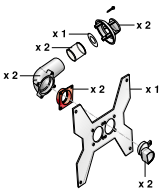
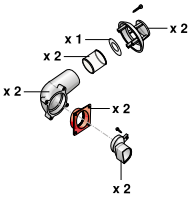
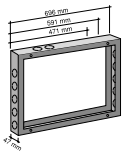
Adapter for split flue gas outlet (semicircle / Ø 35 mm): 0,5 m
Ø 35 mm double pipe length 35 cm: 20,5 x 0,35 m = 7,2 m
Ø 35 mm, 90° F/F condensate drain for vertical pipes: 21,0 m
Ø 60 mm ÷ Ø 35 mm F/M adapter: 8,5 m
Ø 60 mm pipe length 1 m M/F x 3 : 3 x 1 m = 3,0 m
Ø 60 mm upright flue gas terminal, F : 3,0 m
Total flue gas outlet loss: 43,2 m

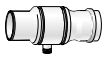
Total (air intake + outlet): 3,5 m + 43,2 m = 46,7 m
46,7 m < 100 m ➔ ALLOWED SOLUTION



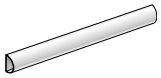
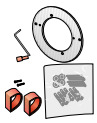
ACCESSORIES

Item	Description	Pack	Code
	Standard pipe, length 1 m	2 pc.	6YTUBOAL01
	Wall safety grid for terminal	1 pc.	6Y41309000
	Single wall terminal for Ø 35 mm	2 pc.	6YTERSDO00
	Adapter for split flue gas outlet (semicircle / Ø 35 mm)	2 pc.	6YRIDSDO00
	Starting elbow for split flue gas outlet Ø 35 mm	2 pc.	6YCURSDO00
	Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	6 pc.	6YTUBSDO13
	Ø 35 mm double socket-and-spigot pipe length 0,50 m F/F - Colour: White	1 pc.	6YTUBSDO93
	Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	6 pc.	6YTUBSDO00
	Ø 35 mm double socket-and -spigot pipe length 1 m M/F - Colour: White	1 pc.	6YTUBSDO90
	90° elbow for Ø 35 mm tube. M/F - Colour: White	3 pc.	6YCURSDO05
	90° elbow for Ø 35 mm tube. M/F - Colour: White	1 pc.	6YCURSDO95
	Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	6 pc.	6YTUBSDO02
	Ø 35 mm socket-and-spigot pipe 0,90m. 90° elbow. M/F - Colour: White	1 pc.	6YTUBSDO92
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	2 pc.	6YSCACON00
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals) - Colour: White	1 pc.	6YSCACON90
	Ø 60 mm ÷ Ø 35 mm F/M adapter - Colour: White	2 pc.	6YRIDSDO03
	Ø 60 mm ÷ Ø 35 mm F/F adapter - Colour: White	2 pc.	6YRIDSDO01

Item	Description	Pack	Code
A 	Ø 35 mm appliance/adapter seal for pipe	10 pc.	6YGUASDO00
B 	Ø 35 mm external seal for connecting pipes	10 pc.	6YGUASDO02
C 	Ø 35 mm adapter/elbow seal	10 pc.	6YGUASDO04
	Ø 35 mm split pipe kit with supporting bracket for in-wall pipes The kit includes: N° 1 supporting bracket N° 2 starting elbows for split flue gas outlet N° 2 2 adapters for split flue gas outlet N° 2 single Ø 35 mm flue gas terminals N° 1 air shutter - N° 2 A-type seals N° 2 B-type seals - N° 2 C-type seals N° 8 3,9 x 9,5 screws N° 2 3,9 x 9,5 screws for terminal fixing N° 4 dowels	1 pc.	6YKITSDO01
	Ø 35 mm F/F condensate drain for horizontal installation (complete with seals)	1 pc.	6YSCACON05
	90°, Ø 35 mm, F/F condensate drain for vertical pipes (complete with seals)	1 pc.	6YSCACON06
	Ø 35 mm F/F coupling sleeve for pipe connection (complete with seals)	2 pc.	6YMANSCA00
	Supporting bracket (with screws and dowels)	1 pc.	6YPIAMUR00
	split pipe kit Ø 35 mm The kit includes: N° 2 adapters - N° 2 starting elbows N° 1 air diaphragm N° 2 B-type seals for connecting pipes N° 2 Ø 35 mm single flue gas terminals N° 6 screws - N° 2 fixing brackets	1 pc.	6YKITSDO00
	Counterframe for split outlet (mod. 3000)	1 pc.	6YTELAIO03
	Counterframe for split outlet (mod. 5000)	1 pc.	6YTELAIO04
	Counterframe for split outlet (mod. 7000)	1 pc.	6YTELAIO05

Item	Description	Pack	Code
	Ø 60 mm pipe length 0.50 m M/F - Colour: White	6 pc.	6YTUBSDO07
	Ø 60 mm pipe length 1.00 m M/F - Colour: White	6 pc.	6YTUBSDO09
	Ø 60 mm pipe length 1.00 m M/F - Colour: White	1 pc.	6YTUBSDO99
	Ø 60 mm pipe length 2.00 m M/F - Colour: White	6 pc.	6YTUBSDO11
	Ø 60 mm, 90° elbow for pipe M/F - Colour: White	4 pc.	6YCURSDO01
	Ø 60 mm, 90° elbow for pipe M/F - Colour: White	1 pc.	6YCURSDO91
	Ø 60 mm, 45° elbow for pipe M/F - Colour: White	4 pc.	6YCURSDO03
	Ø 60 mm, 45° elbow for pipe M/F - Colour: White	1 pc.	6YCURSDO93
	Ø 60 mm condensate flue gas outlet M/F - Colour: White	2 pc.	6YSCACON02
	Ø 60 mm air intake or flue gas outlet brace terminal, F (aluminium)	2 pc.	6YTERCON00
	Ø 60 mm upright flue gas terminal, F (aluminium)	2 pc.	6YTERSCA00
	Ø 60 mm pipe clip - Colour: White	10 pc.	6YCOLSCA00
	Remote control, ErP V class (118x85x32 mm)	1 pc.	0CREMOTO04
	Ambient temperature probe	1 pc.	0KITSAMB00

INCLUDED ACCESSORIES

Item	Description	Pack	Code
	Air intake/flue gas outlet terminal flange	1 pc.	6YLAMTER01
	Standard pipe, length 59 cm	2 pc.	6YTUBOAL00
	Plastic terminal	1 pc.	6YTERMIN02
	Installation kit	1 pc.	6YKITIST37

Anti-corrosion treatment for radiators

Aleternum®



Aleternum® internal coating by **Fondital**

Corrosion is the primary cause of malfunctions in heating systems. Not only does it deteriorate the components of the system, but over the years corrosion significantly reduces efficiency, increasing consumption and, as a result, operating costs.
For example, corrosion in a heating system containing cast iron or steel radiators produces a sludge that accumulates at the bottom of the radiators, obstructing the radiators themselves and the pipes, resulting in a partial or total loss in thermal performance and uneven heat distribution.
In conventional aluminium radiators, corrosion produces gas pockets which prevent the radiator from heating evenly and may limit thermal performance.
To stop corrosion even before it starts, Fondital has developed Aleternum®, an exclusive resin-based internal coating to protect the radiator water chamber.
Aleternum® by Fondital brings the heating system into a new era, in which total* protection is a guarantee of safety and high efficiency. Your heating system will always be as good as new!

WHAT IS CORROSION?



It is the chemical and physical interaction between a metal and a water-based medium, which causes changes in the properties of the metal and which often leads to a loss in the functionality of the metal itself, of the medium or of the system consisting of these two elements.

Metal + Water + Oxidant = **Corrosion**

Depending on the part of the metal affected, corrosion is classified as follows:

- diffused corrosion (or generalised corrosion): if the entire surface of the metal is affected by corrosion;
- uniform corrosion: if the entire surface of the metal is affected by corrosion and the effects of corrosion are equal over the entire surface;
- localised corrosion: where only certain areas of the metal are affected by corrosion. There are numerous different patterns of localised corrosion, among which: ulcers, craters, cavities, pin holes and cracks.

plan view			profile view
	Uniform Corrosion – generalised attack		
	Uniform Corrosion – uniform attack		
	Localised Corrosion		
	Pitting	craters	
		pin holes	
		cavities	
	Stress corrosion cracking (SCC)	Simple cracks	
		Ramified cracks	
	Corrosion - erosion		

› The complete anti-corrosion treatment*

› Ideal for a broad ph spectrum

Conventional aluminium radiators require pH levels between 7 and 8. The new coating eliminates this limitation, allowing aluminium radiators with the Aleternum coating to operate at a wider pH range than both untreated aluminium and steel (which is subject to corrosive attack at pH levels below 8). Aleternum® radiators by Fondital may be used in heating systems with high or potentially high pH levels.



› No gas pocket formation (no gas)

› 100% Aluminium - 100% recyclable

› Burst pression up to 60 bar - ideal for multi-storey buildings

› Will not become obstructed - no cold spots

› Light and easy to install

› May be installed in mixed heating systems

› Extended warranty up to 20 years.

› Better euro/watt ratio than steel and bimetal radiators

› Patented system

* Anticorrosive characteristics are ensured if the product is installed in a closed-circuit heating installation, in which all the cleaning and water treatment operations have to be made according to installation standards specific for closed circuit heating installations.

THERMOELECTRICALLY-WELDED CAP

Thermoelectric process, a PATENT PENDING technology, ensures a stable joint between the aluminium die-cast section and its base. Metal in the joint area is absolutely uniform and the two components are perfectly integrated into each other. Thermoelectric joining technology is carried out at controlled temperatures that prevent spatter and porosity. The result is a radiator that is as solid as a 100% single piece in aluminium, even more sturdy and reliable than ever.

TRADITIONAL CAP



THERMOELECTRICALLY-WELDED CAP





- ✔ NO DIRT ACCUMULATIONS
- ✔ NO WELDING RESIDUES
- ✔ EVEN BETTER AESTHETICS
- ✔ NO GASKETS
- ✔ ENTIRELY IN ALUMINIUM
- ✔ INTERNATIONAL PATENT
- ✔ 100% ALUMINIUM

PAINTING AND FINISHING PHASES

The painting process of Fondital radiators was developed in detail with the aim of ensuring an exemplary final result in terms of both aesthetic look and metal protection.
Painting is crucial to protect the metal from the corrosion that could be triggered by particles in the air of the room where the radiator is installed.
With the aim to obtain flawless results, Fondital relies on a process including two coating phases: the first one is an anaphoretic coating dip and is essential for metal protection, while the second one is carried out by spraying and increases the protection degree, lending the product the desired finish and look.



RADIATOR SIZING AND INSTALLATION

To correctly determine the heat output of the radiators to be installed, you must comply with the rules in force..
To determine the number of sections required for each radiator, you must remember that their nominal heat output is associated with a ΔT (difference between the average water temperature and ambient temperature) of 50 K or of 30 K.
It is therefore advisable to ensure a ΔT of less than 50 K by decreasing the water outlet temperature (for example, a ΔT of 40 to 30 K). This will ensure energy savings as well as increase the degree of comfort.
The radiator heat output for different ΔT values is calculated using the formula: Φ = Km x ΔTn

The radiator heat output for different ΔT values is calculated using the formula:
Calidor Super B4 500/100 radiator with water temperature: inlet 60 ° C, outlet 44 ° C and ambient temperature of 20 °C.
ΔT= (inlet water temperature + outlet water temperature) / 2 - ambient temperature = (60 + 44) / 2 - 20= 32 K.
Φ (32K) = Km x ΔTn = 0,7991 x (32)1,2890 = 69,62 W

When determining the number of sections, remember that in the case of installations with water inlet and outlet at the base or installations with one-way or two-way valve, heat output may decrease by up to 10÷12% and 20% respectively, due to the particular water distribution in the radiators.
If the radiator is installed under shelves, in niches or - worse - in the event of radiator covers, heat output may decrease by around 10-12 %.

RADIATOR INSTALLATION, USE AND MAINTENANCE

The heating systems must be designed, installed, operated and maintained according to the rules in force.
In particular, remember the following during installation:

- The radiators may be used with water and steam systems (max temperature of 120°C);
- the maximum working pressure for die-cast radiators is 16 bar (1600 kPa);
- The radiators must be installed according to the minimum permitted distances: 12 cm above the floor, 2÷5 cm from the wall behind, 10 cm from any niches or shelves;
- If the wall at the back is not sufficiently insulated, fit any additional insulation to minimize dispersion of heat out through the wall;
- Each radiator must be fitted with a vent valve, preferably an automatic one (especially if the radiator has to be isolated from the system);
- The water must have a pH of 7 or 8 (between 5 and 10 only for the model Aleternum) and must not have any properties that can corrode metal in general;
- to tighten the nipples apply a tightening torque between 50 and 80 Nm. Do not exceed 80 Nm.

When using the radiator, remember:

- Never use abrasive products to clean the surfaces;
- Do not use humidifiers in porous materials such as terracotta;
- Avoid fully closing the valve and thereby isolating the radiator from the system;
- If the radiator requires excessive purging, this means there is a fault with the heating system. Contact a qualified technician or call the manufacturer's technical office directly.

Notes

Notes

The manufacturer reserves the right to carry out the necessary changes without prior notice

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COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001▪ISO 14001
ISO 45001▪ISO 50001