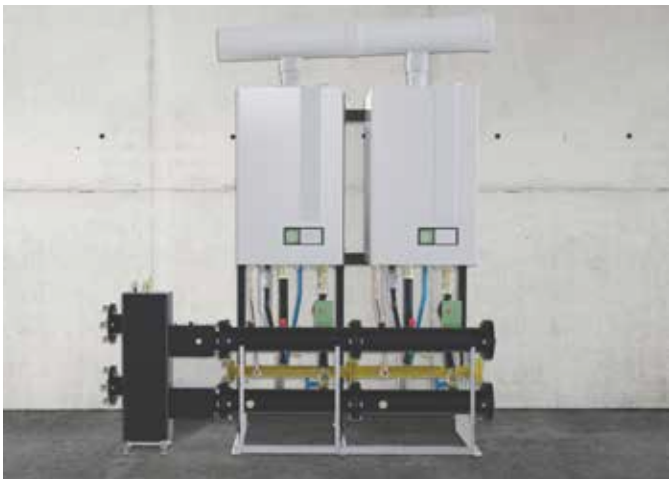
fondital

BE INNOVATIVE



GENERAL CATALOGUE

2021

EN


fondital
BE INNOVATIVE

fondital

BE INNOVATIVE

Fondital is the first manufacturer of die-cast aluminium radiators worldwide as well as the international leader in heating systems. This is the result of the focus on sustainable innovation in R&D, production renewal related to study of the products, the constant development and training of human resources and the attention to well-being of its employees.

Fondital establishes with its clients strategic partnerships that go beyond a simple supplier-client relationship, but are based on information sharing and customer orientation, maintaining focus on environmental sustainability.

VISION

We want to be an innovative company in the production of efficient and sustainable products, creating strong partnerships with our stakeholders, enhancing our local roots to be a global reference.

MISSION

Our mission is to produce heating systems and structural castings for the automotive sector, manufacturing high-quality products using the latest industrial technologies. We are committed to operating efficiently, minimising our energy consumption and promoting sustainable processes that respect the environment. We also want to be a centre of expertise and added value for the territory in which we operate.

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

fondital

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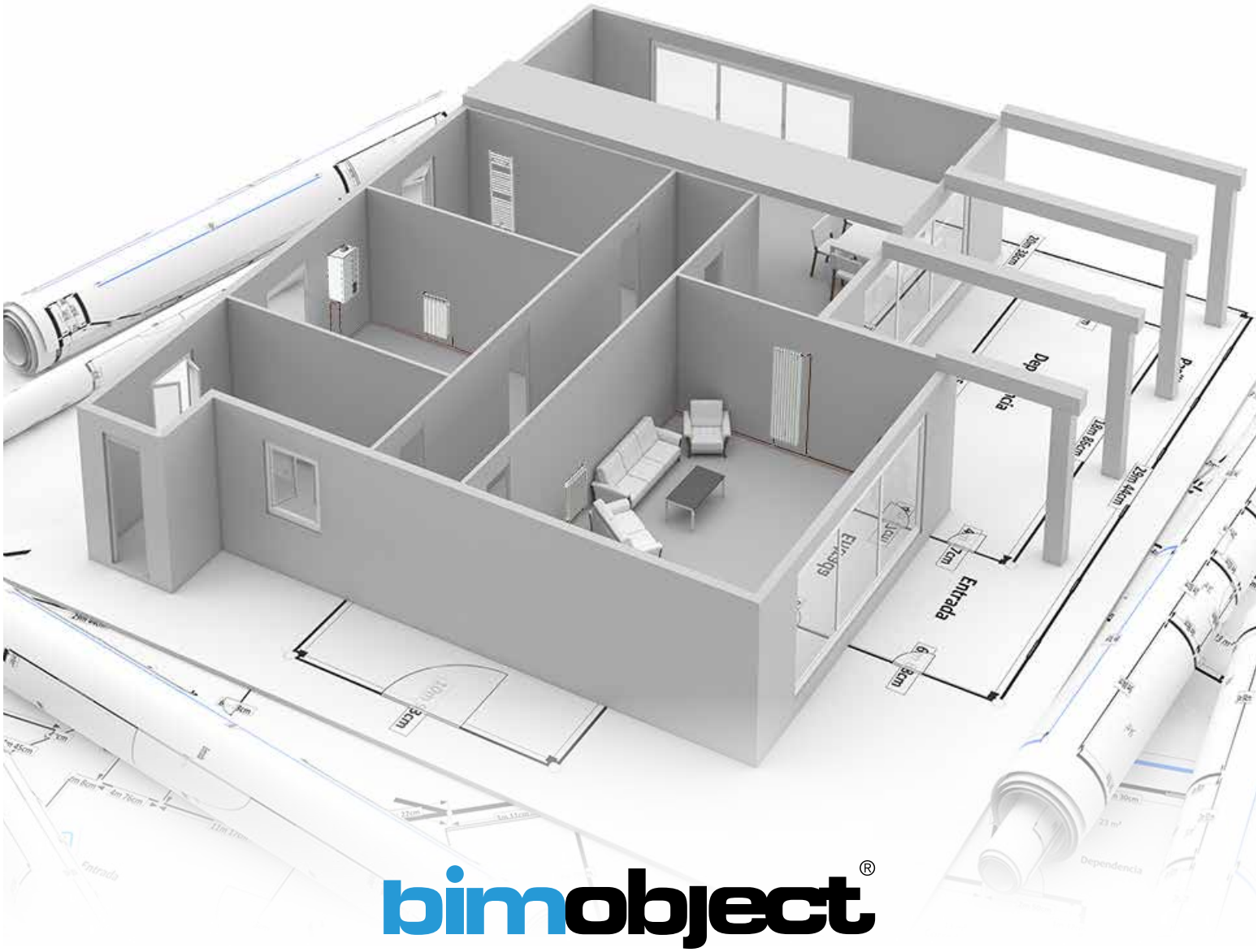
FONDITAL AND BIM:
INNOVATION IN PROJECT DESIGN

The entire catalogue of radiators and boilers 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.



bimobject®

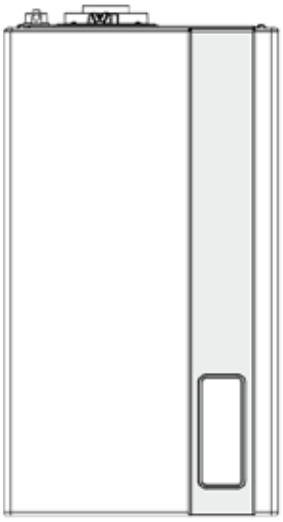
Download the Fondital products from www.bimobject.com/en/fondital

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

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	OPEN CHAMBER STANDARD BOILER	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	●					●		●	●			●	
FORMENTERA KC	●				●			●	●			●	
FORMENTERA KR	●			●			●	●	●			●	
FORMENTERA 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	●					●				●		●	
MADEIRA SOLAR KRBS	●					●		●		●		●	
MADEIRA SOLAR COMPACT KBS	●					●		●		●		●	

MODEL	CONDENSING	OPEN CHAMBER STANDARD BOILER	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 CTFS					●			●	●			●	
ITACA RBTFS				●			●	●	●			●	
ITACA RTFS				●			●	●	●			●	
FORMENTERA CTFS					●			●	●			●	
FORMENTERA CTN		●			●			●	●			●	
FORMENTERA RBTFS				●			●	●	●			●	
FORMENTERA RBTN				●			●	●	●			●	
FORMENTERA RTFS				●			●	●	●			●	
FORMENTERA RTN		●		●			●	●	●			●	
ANTEA CTN AF		●			●				●			●	
ANTEA CTFS AF					●				●			●	
ANTEA CTN		●			●				●			●	
ANTEA RBTN				●			●		●			●	
ANTEA CTFS					●				●			●	
ANTEA RTFS				●			●	●	●			●	
ANTEA RBTFS				●			●	●	●			●	
ANTEA CTFS 40					●			●	●				●
ANTEA RTFS 40				●			●		●				●
ANTEA RBTFS 40				●			●		●				●
MAIORCA CTFS					●			●	●			●	
MINORCA CTFS (CU)					●				●			●	
MINORCA CTFS					●				●			●	
BALI RTN E		●		●			●			●		●	●
BALI RTN PVE		●		●			●			●		●	●
BALI RTN T		●		●			●			●		●	●
BALI RTFS E				●			●			●		●	
ELBA DUAL			●	●			●			●	●	●	●
RODI DUAL 70-1300			●	●			●			●	●		●
RODI DUAL 1400-3500			●	●			●			●	●		●
RODI DUAL HR 70-1300			●	●			●			●	●		●
RODI DUAL HR 1400-3500			●	●			●			●	●		●

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 45 -130 - 170 - 300 litres
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

HIGH OUTPUT BOILERS >35KW

MODULES

FLOOR STANDING BOILERS <35KW

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

ITACA KC

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

Available in the following models:

12 24 28 32

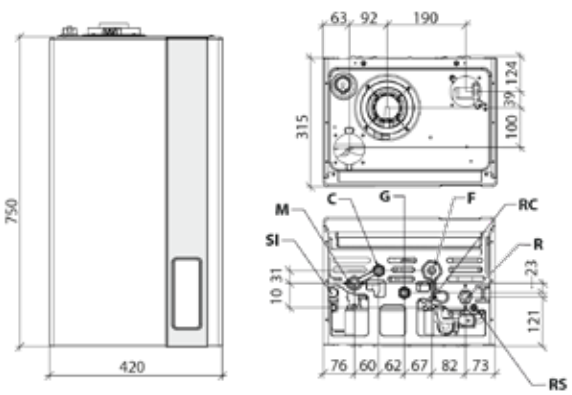
- **Modulation ratio: 1:9**
- **Condensation also in DHW operation thanks to the thermally insulated 26-plate DHW heat exchanger**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Double filling system: automatic and manual**
- **High domestic hot water 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: ★★★*

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 12	NATURAL GAS	CITXX2KC12	12,0	18,0	420x750x315	35,5
	PROPANE	CITXX6KC12				
KC 24	NATURAL GAS	CITXX2KC24	23,7	27,3	420x750x315	38,0
	PROPANE	CITXX6KC24				
KC 28	NATURAL GAS	CITXX2KC28	26,4	30,4	420x750x315	39,0
	PROPANE	CITXX6KC28				
KC 32	NATURAL GAS	CITXX2KC32	30,4	34,5	420x750x315	40,5
	PROPANE	CITXX6KC32				

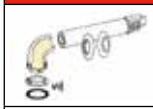
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	um	KC 12	KC 24	KC 28	KC 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	8,8	13,4	15,5	16,2
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

(**) with comfort function disabled.
For other technical specifications, see from page 62 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00
	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 195

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:

12 24 28 32

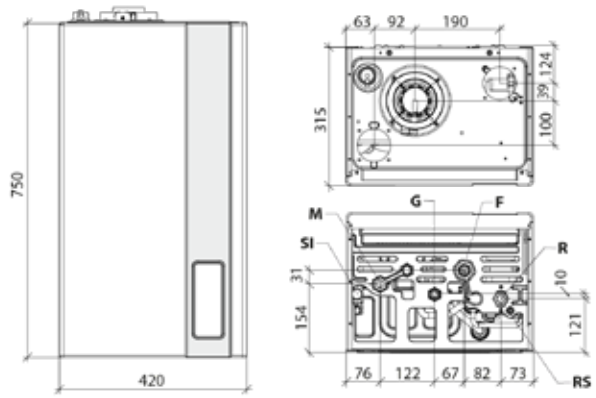
TOUCH SCREEN INTERFACE

- *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		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 12	NATURAL GAS	CITXX2KR12	12,0	18,0 (*)	420x750x315	34,0
	PROPANE	CITXX6KR12				
KR 24	NATURAL GAS	CITXX2KR24	23,7	27,3 (*)	420x750x315	35,5
	PROPANE	CITXX6KR24				
KR 28	NATURAL GAS	CITXX2KR28	26,4	30,4 (*)	420x750x315	37,0
	PROPANE	CITXX6KR28				
KR 32	NATURAL GAS	CITXX2KR32	30,4	34,5 (*)	420x750x315	38,5
	PROPANE	CITXX6KR32				

(*) 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 specifications	um	KR 12	KR 24	KR 28	KR 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
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

(*) with optional hot water storage tank.
For other technical specifications, see from page 63 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00
	hot water storage tank temperature probe 3m	0KITSOND00

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
	Magnetic dirt separator filter	0AFILDEF00

For other accessories, see from page 195

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:

12 24 28 32

- **Temperature probe for water tank supplied as standard**
- **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)

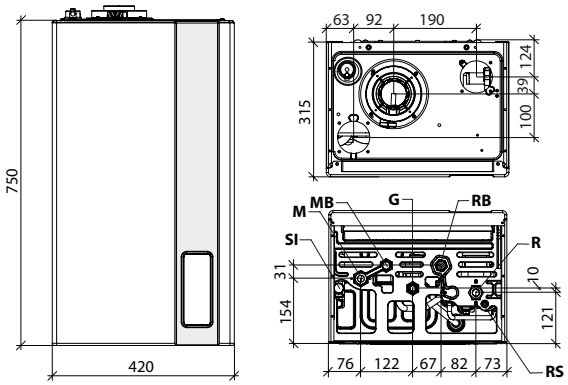
TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		Energy efficiency class	L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	Room heating	mm	kg
KRB 12	NATURAL GAS	CITXX2KU12	12,0	18,0 (*)	A	420x750x315	36,5
	PROPANE	CITXX6KU12					
KRB 24	NATURAL GAS	CITXX2KU24	23,7	27,3 (*)	A	420x750x315	37,0
	PROPANE	CITXX6KU24					
KRB 28	NATURAL GAS	CITXX2KU28	26,4	30,4 (*)	A	420x750x315	38,5
	PROPANE	CITXX6KU28					
KRB 32	NATURAL GAS	CITXX2KU32	30,4	34,5 (*)	A	420x750x315	40,0
	PROPANE	CITXX6KU32					

(*) 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 specifications	um	KRB 12	KRB 24	KRB 28	KRB 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
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

(*) with optional hot water storage tank.
For other technical specifications, see from page 64 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00
	Electrical kit for zone management with external probe	0KITZONE05
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Magnetic dirt separator filter	0AFILDEF00

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

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**
- Thermosetting polymer-covered stainless steel heat exchanger
- Heating expansion vessel - 10 litres
- 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:

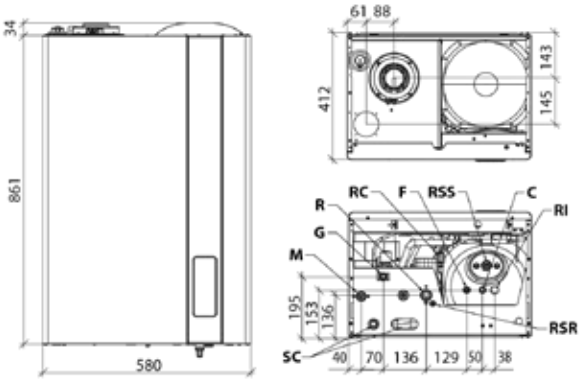
24 32

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*

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KB 24	NATURAL GAS	CITXX2KB24	23,7	27,3	580x861x412	74,0
	PROPANE	CITXX6KB24				
KB 32	NATURAL GAS	CITXX2KB32	30,4	34,5	580x861x412	79,0
	PROPANE	CITXX6KB32				

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 specifications	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 65 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00
	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 195

FORMENTERA KC

CONDENSING WALL-HUNG BOILER WITH INSTANTANEOUS PRODUCTION OF DHW

- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Controls to manage two different types of solar thermal systems fitted as standard**
- **High domestic hot water production, more power during DHW operation (18 - 28 - 30 - 35 kW)**
- **Stainless steel 26-plate DHW heat exchanger**
- **Heating expansion vessel - 10 litres**
- Thermosetting polymer-covered stainless steel heat exchanger
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- 3-speed circulation pump with built-in air purging device
- Automatic by-pass

TOUCH SCREEN INTERFACE

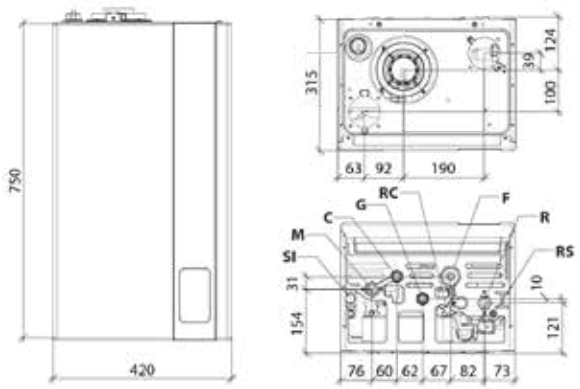
- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

Available in the following models:

12 24 28 32

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 12	NATURAL GAS	CFOXX2KC12	12,0	18,0	420x750x315	36,5
	PROPANE	CFOXX6KC12				
KC 24	NATURAL GAS	CFOXX2KC24	23,7	27,3	420x750x315	37,5
	PROPANE	CFOXX6KC24				
KC 28	NATURAL GAS	CFOXX2KC28	26,4	30,4	420x750x315	39,0
	PROPANE	CFOXX6KC28				
KC 32	NATURAL GAS	CFOXX2KC32	30,4	34,5	420x750x315	40,5
	PROPANE	CFOXX6KC32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES



SI	Trap inspection cap	**RC**	Filler tap
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")	**RS**	Discharge tap

Technical specifications	um	KC 12	KC 24	KC 28	KC 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	8,8	13,4	15,5	16,2
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 66 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Magnetic dirt separator filter	0AFILDEF00
	Kit for connection to solar plant	0KITSOLC07
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 195

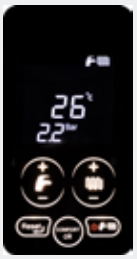
FORMENTERA KR

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**
- **Standard management of one type of solar thermal system**
- **Heating expansion vessel - 10 litres**
- Thermosetting polymer-covered stainless steel heat exchanger
- Anti-legionella function for hot water storage tank
- Automatic by-pass
- Thermoregulation with external probe (optional)
- 3-speed circulation pump with built-in air purging device

Available in the following models:

12 24 28 32



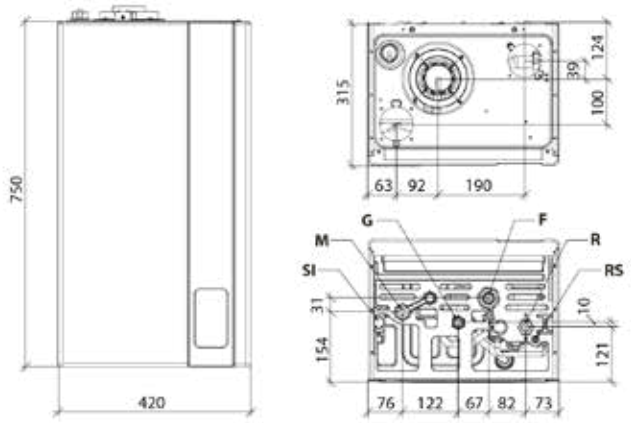
TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 12	NATURAL GAS	CFOXX2KR12	12,0	18,0 (*)	420x750x315	34,0
	PROPANE	CFOXX6KR12				
KR 24	NATURAL GAS	CFOXX2KR24	23,7	27,3 (*)	420x750x315	36,0
	PROPANE	CFOXX6KR24				
KR 28	NATURAL GAS	CFOXX2KR28	26,4	30,4 (*)	420x750x315	37,5
	PROPANE	CFOXX6KR28				
KR 32	NATURAL GAS	CFOXX2KR32	30,4	34,5 (*)	420x750x315	39,0
	PROPANE	CFOXX6KR32				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Technical specifications	um	KR 12	KR 24	KR 28	KR 32
Nominal heat output (Pn)	kW	12	23	26	29
Seasonal energy efficiency of ambient heating (ηs)	%	90	92	92	93
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
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

(*) with optional hot water storage tank.
For other technical specifications, see from page 67 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	hot water storage tank temperature probe 3m	0KITSOND00
	Magnetic dirt separator filter	0AFILDEF00
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 195

FORMENTERA KRB

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

- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Standard management of one type of solar thermal system**
- **Thermoregulation with external probe (optional)**
- **Integrated 3-way deviating valve**
- **Heating expansion vessel - 10 litres**
- Thermosetting polymer-covered stainless steel heat exchanger
- CH water flow rate electronic control
- Installation flexibility thanks to IPX5D electrical protection degree
- Freeze protection function for heating and hot water storage tank
- 3-speed circulation pump with built-in air purging device
- Automatic by-pass

Available in the following models:

12 24 28 32

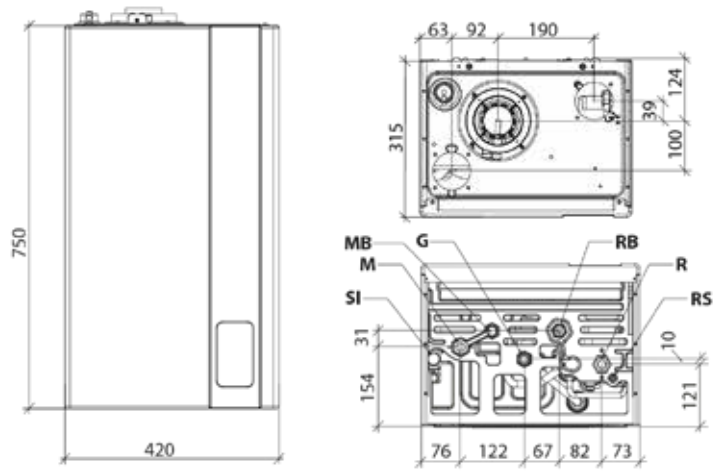
TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 12	NATURAL GAS	CFOXX2KU12	12,0	18,0 (*)	420x750x315	35,5
	PROPANE	CFOXX6KU12				
KRB 24	NATURAL GAS	CFOXX2KU24	23,7	27,3 (*)	420x750x315	37,0
	PROPANE	CFOXX6KU24				
KRB 28	NATURAL GAS	CFOXX2KU28	26,4	30,4 (*)	420x750x315	38,0
	PROPANE	CFOXX6KU28				
KRB 32	NATURAL GAS	CFOXX2KU32	30,4	34,5 (*)	420x750x315	39,0
	PROPANE	CFOXX6KU32				

(*) with optional hot water storage tank.

DIMENSIONS AND CONNECTION CENTRE DISTANCES



SI Trap inspection cap
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")
RS Discharge tap

Technical specifications	um	KRB 12	KRB 24	KRB 28	KRB 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	107,4	107,4	108,3
Heating expansion vessel capacity	l	10	10	10	10
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

(*) with optional hot water storage tank.
For other technical specifications, see from page 68 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00
	Coaxial fitting kit Ø60/100	0KITATCO00
	External probe (60x45x31 mm)	0SONDAES01
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Magnetic dirt separator filter	0AFILDEF00
	Coax. adapter kit D.60/100 to D.80/125	0KITADCO00

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

ANTEA KC

CONDENSING WALL-HUNG BOILER WITH INSTANTANEOUS PRODUCTION OF DHW

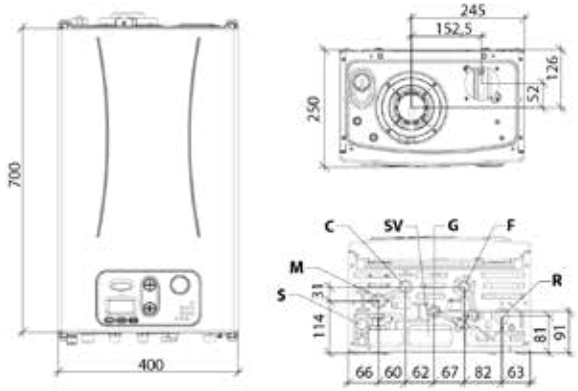
- **High domestic hot water production, more power during DHW operation (18 - 28 - 30 kW)**
- **Modulation ratio: 1:9**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Heating expansion vessel - 9 litres**
- Management of 2 different kinds of solar thermal system (with additional kit)
- Thermoregulation with external probe (optional)
- Compact dimension, only 250 mm deep
- 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:

12 24 28

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KC 12	NATURAL GAS	CAOXX2KC12	12,0	18,0	400x700x250	30,5
	PROPANE	CAOXX6KC12				
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 specifications	um	KC 12	KC 24	KC 28
Nominal heat input (Qn)	kW	12,0	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
Heating expansion vessel capacity	l	9	9	9
DHW nominal heat input	kW	18,0	27,3	30,4
Specific DHW flow ΔT=30K	l/min	8,6	13,4	15,0
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX4D	IPX4D	IPX4D

For other technical specifications, see from page 69 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00
	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	0COPETUB00

For other accessories, see from page 195

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**
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Compact dimension, only 250 mm deep
- 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

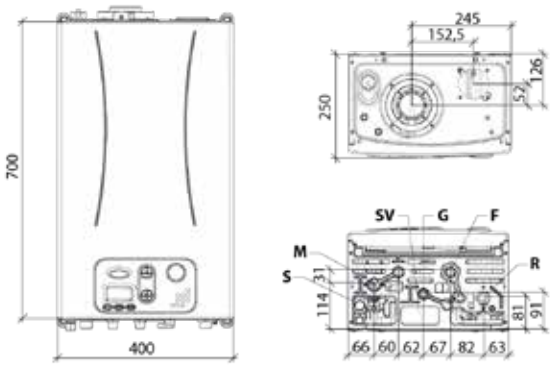
Available in the following models:

12 24 28

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KR 12	NATURAL GAS	CAOXX2KR12	12,0	18,0 (*)	400x700x250	29,5
	PROPANE	CAOXX6KR12				
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 specifications	um	KR 12	KR 24	KR 28
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
Heating expansion vessel capacity	l	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX4D	IPX4D	IPX4D

(*) with optional hot water storage tank.
For other technical specifications, see from page 70 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Splitter kit Ø80+80	0KITSDOP00
	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	0COPETUB00

For other accessories, see from page 195

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**
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Compact dimension, only 250 mm deep
- 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

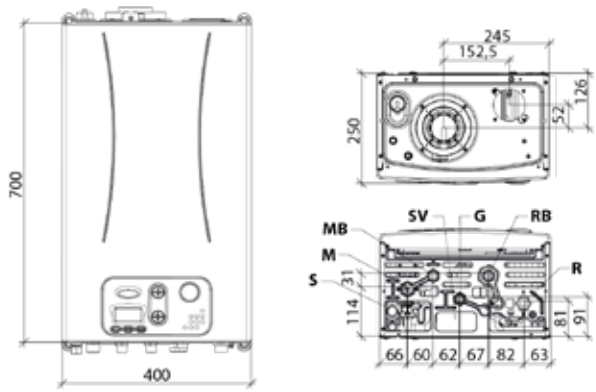
Available in the following models:

12 24 28

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 12	NATURAL GAS	CAOXX2KU12	12,0	18,0 (*)	400x700x250	29,5
	PROPANE	CAOXX6KU12				
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.

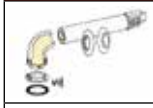
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	um	KRB 12	KRB 24	KRB 28
Nominal heat input (Qn)	kW	12,0	23,7	26,4
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
Heating expansion vessel capacity	l	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)
NOx emission class	-	6	6	6
Electric protection rating	IP	IPX4D	IPX4D	IPX4D

(*) with optional hot water storage tank.
For other technical specifications, see from page 71 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Splitter kit Ø80+80	0KITSDOP00
	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	0COPETUB00

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

TENERIFE KC

CONDENSING WALL-HUNG BOILER WITH INSTANTANEOUS PRODUCTION OF DHW

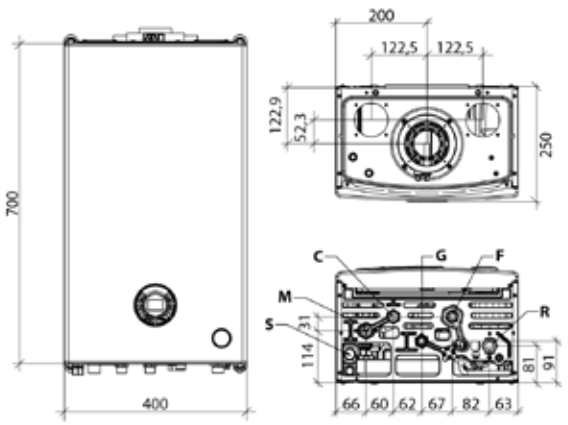
- **High efficiency stainless steel heat exchanger with single coil and wide passage section**
- **Heating expansion vessel - 9 litres**
- **Compact dimension, only 250 mm deep**
- **Easy to install in pre-existing plants thanks to: central flue vent, wall fixing bracket and double hole for split suction**
- **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
- Class 6 of NOx emissions
- Automatic by-pass

Available in the following models:

24

Model	Gas type	Code	Heat input		L 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				

DIMENSIONS AND CONNECTION CENTRE DISTANCES

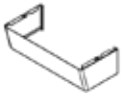


S	Condensate drain	**G**	Gas inlet (1/2")
M	CH system flow (3/4")	**F**	Cold water inlet (1/2")
C	DHW outlet (1\2")	**R**	CH system return (3/4")

Technical specifications	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 72 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Ambient temperature probe	0KITSAMB00
	Coaxial fitting kit Ø60/100	0KITATCO00
	Splitter kit Ø80+80	0KITSDOP00

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Magnetic dirt separator filter	0AFILDEF00
	Compact wall pipe cover	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 195

ITACA CH KR

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

- **Class 6 of NOx emissions**
- **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	L 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**	**CIPXX2KR85**	**CIPXX2KR1C**	**CIPXX2KR1F**
Boiler	CITXX2KR45	CITXX2KR60	CITXX2KR85	CITXX2KR1C	CITXX2KR1F
Pump	0KCIRCOL00	0KCIRCOL00	0KCIRCOL01	0KCIRCOL04	0KCIRCOL04


mod. CH KR 45

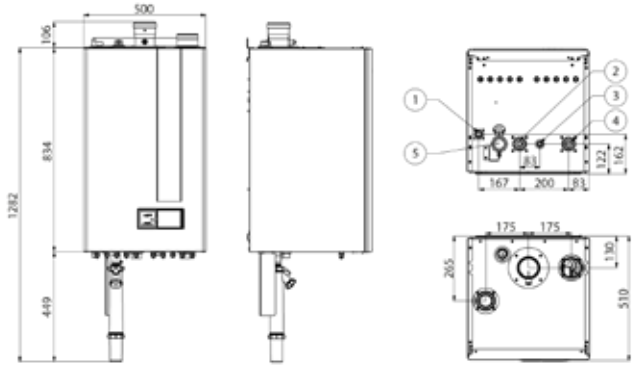

mod. CH KR 60


mod. CH KR 85


mod. CH KR 120


mod. CH KR 150

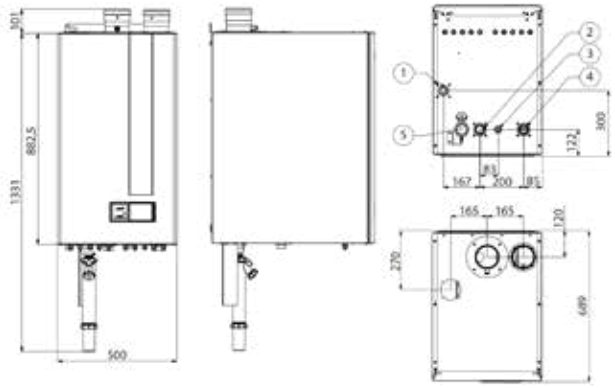
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

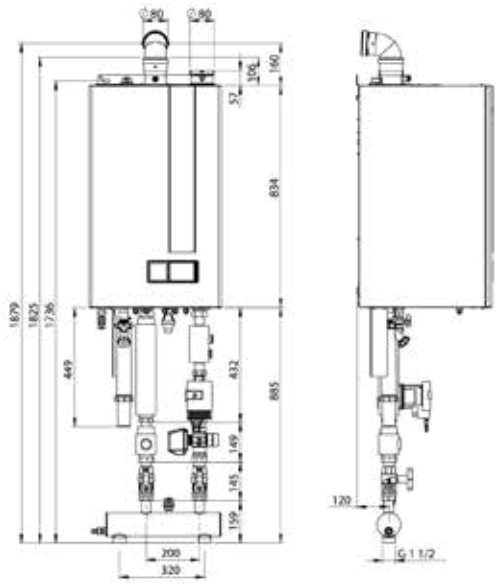
Those boilers must be installed with condensing flue gases ducts. The standard starting kit configuration is splitted 100 + 100. Flue gases coaxial 150/100 parts are available

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

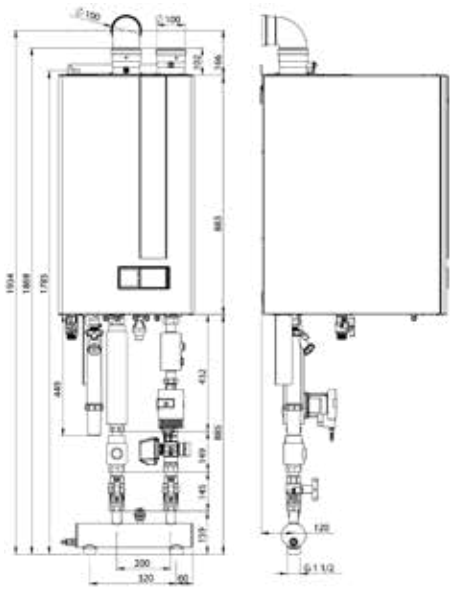
Technical specifications	um	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
Nominal heat input (Qn)	kW	40,0	60,0	81,0	115,0	140,0
Nominal heat output (80-60°C) (Pn)	kW	38,5	58,3	78,5	112,0	136,3
Heat output (50-30°C)	kW	41,5	62,8	84,8	122,0	148,7
Reduced heat output (50-30°C)	kW	4,3	6,5	9,7	12,4	23,9
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	X4D	X4D	X4D	X4D	X4D
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 73 - Maximum length of flue gas venting, see page 196

INSTALLING DIMENSIONS

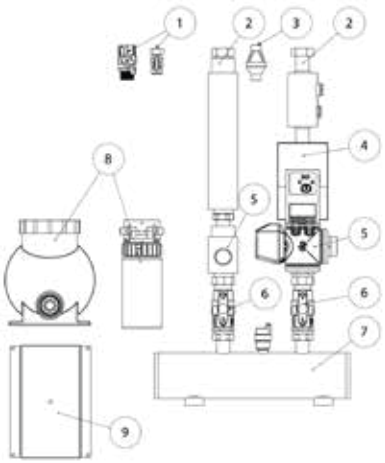


mod. CH KR 45 - 60 - 85



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		PUMP PWM – 7.5 m height 180 mm – connection G 1 ½ M	0KCIRCOL00	●	●			
		PUMP PWM – 8 m height 180 mm – connection G 1 ½ M	0KCIRCOL01			●		

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
4		Insulation casing for 0KCIRCOL00 and 0KCIRCOL01 provided with velcro fastening	0KISOCIR00	●	●	●		
		PUMP PWM – 11 m height 180 mm – connection G 1 ½ M	0KCIRCOL02			●		
		Insulation casing for 0KCIRCOL02 provided with velcro fastening	0KISOCIR01			●		
		Pompa autoflow - 7 m height 180 mm connection G 1 ½ M	0KCIRCOL03	●	●			
		Pompa autoflow – 12 m height 180 mm connection G 1 ½ M	0KCIRCOL04			●	●	●
		Insulation casing for 0KCIRCOL03 and 0KCIRCOL04 provided with velcro fastening	0KISOCIR02			●	●	●
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 0KCIRCOL01) 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				●	●

Ref.	Item	Description	Code	CH KR 45	CH KR 60	CH KR 85	CH KR 120	CH KR 150
-		PG9 cable gland (x5)	0KPRESPG00	●	●	●	●	●
		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	●	●	●	●	●

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				●	●

ITACA CH KR MODULE FOR INDOOR INSTALLATION

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 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
- Available in the following versions: with direct collectors; with hydraulic separator; with plate exchanger

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)

For more information visit our website www.fondital.com and download the Catalogue & Pricelist "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])
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

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)

For more information visit our website www.fondital.com and download the Catalogue & Pricelist "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])
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 BOILER ROOMS

- **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 & Pricelist "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

GIAVA KRB

CONDENSING FLOOR-STANDING 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:

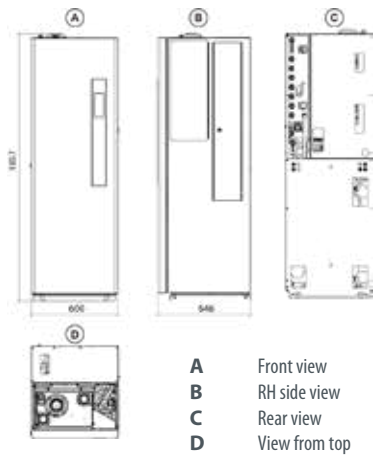
12 24 28 32

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		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRB 12	NATURAL GAS	CGBXX2KU12	12,0	18,0	600x1857x642	189,0
	PROPANE	CGBXX6KU12				
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 12	NATURAL GAS	CGBXX2KV12	12,0	18,0	600x1857x642	201,00
	PROPANE	CGBXX6KV12				
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 12	NATURAL GAS	CGBXX2KZ12	12,0	18,0	600x1857x642	204,00
	PROPANE	CGBXX6KZ12				
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 specifications	um	KRB 12	KRB 24	KRB 28	KRB 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,6	22,9	25,4	29,4
Heat output (50-30°C)	kW	12,6	24,9	27,9	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,0	106,5	107,0	108,3
Heating expansion vessel capacity	l	10	10	10	10
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	19,5	22	22,5	23,4
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 74 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Electrical kit for zone management with external probe	0KITZONE05
	Giava recirculation optional kit	0KRICIRC00

For other accessories, see from page 195

MADEIRA SOLAR KRBS

FLOOR-STANDING CONDENSING BOILER WITH AN INTEGRATED DOUBLE COIL WATER TANK FOR THE PRODUCTION OF DHW
WITH HYDRAULIC UNIT AND ELECTRONICS FOR MANAGING A SOLAR THERMAL PLANT

Available in the following models:

12 24 28 32

- **Modulation ratio: 1:9**
- **300-litre hot water storage tank with double coil**
- **Available in the KRBS version with one direct zone, in the KRBS-V version with one direct and one mixed integrated zones, and in the KRBS-Z version with one direct and two mixed integrated zones**
- **Available in the M versions, with 3- way solar deviating valve for thermal discharge**
- **Front door for immediate access to boiler**
- Thermosetting polymer-covered stainless steel heat exchanger
- Hydraulic connections on the sides
- Thermoregulation with external probe (optional)
- Heating expansion vessel - 10 litres
- 12-litre DHW expansion vessel
- 18-litre solar expansion vessel
- Additional 5-litre safety solar tank

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*

Technical specifications	um	KRBS 12	KRBS 24	KRBS 28	KRBS 32
Nominal heat input (Qn)	kW	12,0	23,7	26,4	30,4
Nominal heat output (80-60°C) (Pn)	kW	11,6	22,9	25,4	29,4
Heat output (50-30°C)	kW	12,6	24,9	27,9	32,3
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Useful efficiency at nominal input (80-60°C)	%	97,1	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,0	106,5	107,0	108,3
Heating expansion vessel capacity	l	10	10	10	10
DHW nominal heat input	kW	18,0	27,3	30,4	34,5
Specific DHW flow ΔT=30K	l/min	23,6	23,6	25,3	26,3
NOx emission class	-	6	6	6	6
Electric protection rating	IP	IPX5D	IPX5D	IPX5D	IPX5D

For other technical specifications, see from page 75 - Maximum length of flue gas venting, see page 196

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KRBS 12	NATURAL GAS	CMBXX2KD12	12,0	18,0	600x1857x985	270,0
	PROPANE	CMBXX6KD12				
KRBS 24	NATURAL GAS	CMBXX2KD24	23,7	27,3	600x1857x985	272,0
	PROPANE	CMBXX6KD24				
KRBS 28	NATURAL GAS	CMBXX2KD28	26,4	30,4	600x1857x985	273,0
	PROPANE	CMBXX6KD28				
KRBS 32	NATURAL GAS	CMBXX2KD32	30,4	34,5	600x1857x985	274,0
	PROPANE	CMBXX6KD32				
KRBS M 12	NATURAL GAS	CMBXX2KE12	12,0	18,0	600x1857x985	271,00
	PROPANE	CMBXX6KE12				
KRBS M 24	NATURAL GAS	CMBXX2KE24	23,7	27,3	600x1857x985	273,00
	PROPANE	CMBXX6KE24				
KRBS M 28	NATURAL GAS	CMBXX2KE28	26,4	30,4	600x1857x985	274,00
	PROPANE	CMBXX6KE28				
KRBS M 32	NATURAL GAS	CMBXX2KE32	30,4	34,5	600x1857x985	275,00
	PROPANE	CMBXX6KE32				
KRBS MV 12	NATURAL GAS	CMBXX2KG12	12,0	18,0	600x1857x985	283,00
	PROPANE	CMBXX6KG12				
KRBS MV 24	NATURAL GAS	CMBXX2KG24	23,7	27,3	600x1857x985	285,00
	PROPANE	CMBXX6KG24				
KRBS MV 28	NATURAL GAS	CMBXX2KG28	26,4	30,4	600x1857x985	283,00
	PROPANE	CMBXX6KG28				
KRBS MV 32	NATURAL GAS	CMBXX2KG32	30,4	34,5	600x1857x985	287,00
	PROPANE	CMBXX6KG32				
KRBS MZ 12	NATURAL GAS	CMBXX2KK12	12,0	18,0	600x1857x985	287,00
	PROPANE	CMBXX6KK12				
KRBS MZ 24	NATURAL GAS	CMBXX2KK24	23,7	27,3	600x1857x985	288,00
	PROPANE	CMBXX6KK24				
KRBS MZ 28	NATURAL GAS	CMBXX2KK28	26,4	30,4	600x1857x985	290,00
	PROPANE	CMBXX6KK28				
KRBS MZ 32	NATURAL GAS	CMBXX2KK32	30,4	34,5	600x1857x985	291,00
	PROPANE	CMBXX6KK32				
KRBS V 12	NATURAL GAS	CMBXX2KF12	12,0	18,0	600x1857x985	283,00
	PROPANE	CMBXX6KF12				
KRBS V 24	NATURAL GAS	CMBXX2KF24	23,7	27,3	600x1857x985	284,00
	PROPANE	CMBXX6KF24				
KRBS V 28	NATURAL GAS	CMBXX2KF28	26,4	30,4	600x1857x985	286,00
	PROPANE	CMBXX6KF28				
KRBS V 32	NATURAL GAS	CMBXX2KF32	30,4	34,5	600x1857x985	287,00
	PROPANE	CMBXX6KF32				
KRBS Z 12	NATURAL GAS	CMBXX2KJ12	12,0	18,0	600x1857x985	286,00
	PROPANE	CMBXX6KJ12				
KRBS Z 24	NATURAL GAS	CMBXX2KJ24	23,7	27,3	600x1857x985	287,00
	PROPANE	CMBXX6KJ24				
KRBS Z 28	NATURAL GAS	CMBXX2KJ28	26,4	30,4	600x1857x985	289,00
	PROPANE	CMBXX6KJ28				
KRBS Z 32	NATURAL GAS	CMBXX2KJ32	30,4	34,5	600x1857x985	291,00
	PROPANE	CMBXX6KJ32				

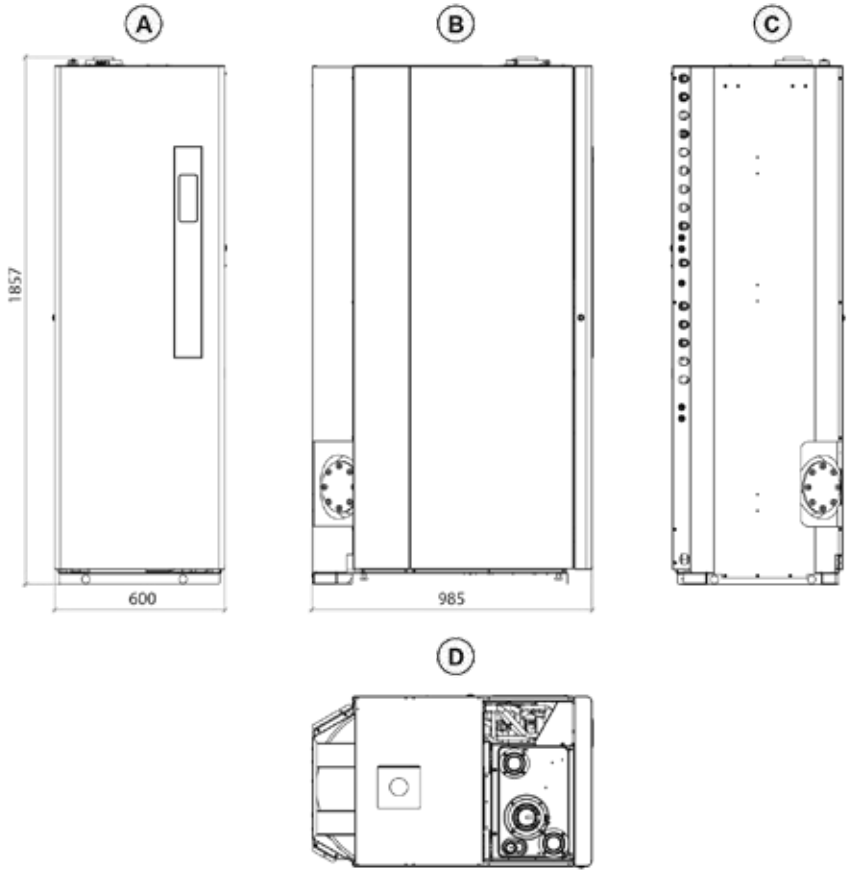
For other technical specifications, see from page 75 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00
	Temperature probe for solar plants	PSPTMILL00

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	DHW recirculation kit	0KRICIRC01
	Coaxial fitting kit Ø60/100	0KITATCO00

For other accessories, see from page 195

DIMENSIONS



A Front view
B LH view
C Rear view
D View from top

MADEIRA SOLAR COMPACT KBS

FLOOR STANDING CONDENSING BOILER WITH INSTANT PRODUCTION OF DHW AND WITH SINGLE-COIL SOLAR DHW HOT WATER STORAGE TANK
WITH HYDRAULIC UNIT AND ELECTRONICS FOR MANAGING A SOLAR THERMAL PLANT

- **Modulation ratio: 1:9**
- **Hydraulic connections on the sides**
- **170-litre hot water storage tank with single coil**
- **DHW thermostatic mixing valve**
- **Front door for immediate access to boiler**
- **Available in the KBS version with one direct zone, in the KBS-V version with one direct and one mixed integrated zones, and in the KBS-Z version with one direct and two mixed integrated zones**
- Thermosetting polymer-covered stainless steel heat exchanger
- Thermoregulation with external probe (optional)
- Heating expansion vessel - 10 litres
- 12-litre DHW expansion vessel
- 12-litre solar expansion vessel

Available in the following models:

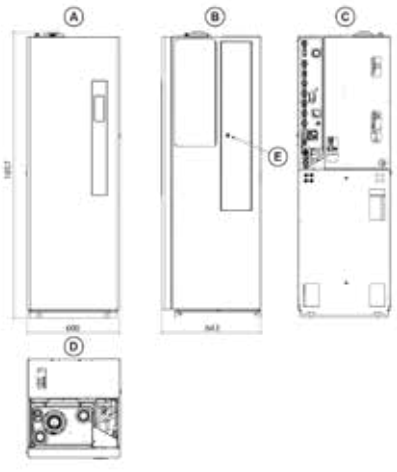
24 32

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
KBS 24	NATURAL GAS	CMCXX2KM24	23,7	27,3	600x1857x645	206,0
	PROPANE	CMCXX6KM24				
KBS 32	NATURAL GAS	CMCXX2KM32	30,4	34,5	600x1857x645	209,0
	PROPANE	CMCXX6KM32				
KBS V 24	NATURAL GAS	CMCXX2KN24	23,7	27,3	600x1857x645	218,00
	PROPANE	CMCXX6KN24				
KBS V 32	NATURAL GAS	CMCXX2KN32	30,4	34,5	600x1857x645	221,00
	PROPANE	CMCXX6KN32				
KBS Z 24	NATURAL GAS	CMCXX2KP24	23,7	27,3	600x1857x645	221,00
	PROPANE	CMCXX6KP24				
KBS Z 32	NATURAL GAS	CMCXX2KP32	30,4	34,5	600x1857x645	224,00
	PROPANE	CMCXX6KP32				

DIMENSIONS AND CONNECTION CENTRE DISTANCES



A Front view
B RH side view
C Rear view
D View from top
E Opening for hydraulic connections

Technical specifications	um	KBS 24	KBS 32
Nominal heat input (Qn)	kW	23,7	30,4
Nominal heat output (80-60°C) (Pn)	kW	22,9	29,4
Heat output (50-30°C)	kW	24,9	32,3
Reduced heat input (Qr)	kW	3,0	4,2
Useful efficiency at nominal input (80-60°C)	%	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	106,2
Useful efficiency at 30% (30°C return)	%	106,5	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	13,4	16,2
NOx emission class	-	6	6
Electric protection rating	IP	IPX5D	IPX5D

(**) with comfort function disabled.
For other technical specifications, see from page 76 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Splitter kit Ø80+80	0KITSDOP00

Item	Description	Code
	Temperature probe for solar plants	PSPTMILL00
	External probe (60x45x31 mm)	0SONDAES01

For other accessories, see from page 195

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

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical specifications	um	Itaca	Itaca	Itaca	Itaca
Model	-	KC 12	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	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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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
DHW nominal heat output (ΔT 30°C)	kW	18,6	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	0,5-6,0
Specific DHW flow ΔT=30K	l/min	8,8	13,4	15,5	16,2
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	88	97	101	106
Circulation pump power input	W	50	50	50	50
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 specifications	um	Itaca	Itaca	Itaca	Itaca
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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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 (*)
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	88	97	101	106
Circulation pump power input	W	50	50	50	50
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 specifications	um	Itaca	Itaca	Itaca	Itaca
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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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 (*)
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	88	97	101	106
Circulation pump power input	W	50	50	50	50
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 specifications	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 specifications	um	Formentera	Formentera	Formentera	Formentera
Model	-	KC 12	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	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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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
DHW nominal heat output (ΔT 30°C)	kW	18,6	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	0,5-6,0
Specific DHW flow ΔT=30K	l/min	8,8	13,4	15,5	16,2
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0.21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	107	120	125	129
Circulation pump power input	W	86	86	86	86
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 specifications	um	Formentera	Formentera	Formentera	Formentera
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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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 (*)
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0.21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	107	120	125	129
Circulation pump power input	W	86	86	86	86
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 specifications	um	Formentera	Formentera	Formentera	Formentera
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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,7	23,0	25,5	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,6	3,0	3,9
Heat output (50-30°C)	kW	12,6	25,0	28,0	32,3
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,8	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,6	106,0	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
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 (*)
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	%	0,40	0.44	1.04	0,87
Casing heat loss with burner off	%	0,53	0.21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2.72	2.26	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	81	90	94	106
Circulation pump power input	W	86	86	86	86
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 specifications	um	Antea	Antea	Antea
Model	-	KC 12	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	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	26,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
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	9	9	9
DHW nominal heat input	kW	18,0	27,3	30,4
DHW minimum heat input	kW	2,0	3,0	3,3
DHW nominal heat output (ΔT 30°C)	kW	18,4	27,4	29,2
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	8,6	13,4	15,0
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	%	0,26	1.28	1.11
Casing heat loss with burner off	%	0,55	0,26	0.27
Chimney heat loss with burner on at nominal heat input	%	2,64	2.45	2.19
Air-flue ΔT at nominal heat input	°C	57,9	61	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93
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	111	120	125
Circulation pump power input	W	86	86	86
Electric protection rating	IP	IPX4D	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	80+80 60+60 100/60 125/80

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical specifications	um	Antea	Antea	Antea
Model	-	KR 12	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	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	26,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
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	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)
DHW minimum heat input	kW	2,0 (*)	3,0 (*)	3,3 (*)
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	%	0,26	1.28	1.11
Casing heat loss with burner off	%	0,55	0,26	0.27
Chimney heat loss with burner on at nominal heat input	%	2,64	2.45	2.19
Air-flue ΔT at nominal heat input	°C	57,9	61	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93
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	111	120	125
Circulation pump power input	W	86	86	86
Electric protection rating	IP	IPX4D	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	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 specifications	um	Ischia	Antea	Antea
Model	-	KRB 12	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	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	26,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3
Nominal heat output (80-60°C) (Pn)	kW	11,7	22,8	25,5
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,8	3,1
Heat output (50-30°C)	kW	12,6	24,9	28,0
Reduced heat output (50-30°C)	kW	2,1	3,2	3,5
Useful efficiency at nominal input (80-60°C)	%	97,1	96,3	96,7
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,9
Useful efficiency at 30% (30°C return)	%	106,0	107,2	107,5
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	9	9	9
DHW nominal heat input	kW	18,0 (*)	27,3 (*)	30,4 (*)
DHW minimum heat input	kW	2,0 (*)	3,0 (*)	3,3 (*)
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	%	0,26	1.28	1.11
Casing heat loss with burner off	%	0,55	0,26	0.27
Chimney heat loss with burner on at nominal heat input	%	2,64	2.45	2.19
Air-flue ΔT at nominal heat input	°C	57,9	61	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93
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	81	90	94
Circulation pump power input	W	86	86	86
Electric protection rating	IP	IPX4D	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	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 specifications	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 specifications	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	X4D	X4D	X4D	X4D	X4D
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

TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

Technical specifications	um	Giava	Giava	Giava	Giava
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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,6	22,9	25,4	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,7	3,0	3,9
Heat output (50-30°C)	kW	12,6	24,9	27,9	32,3
Reduced heat output (50-30°C)	kW	2,1	3,22	3,58	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
DHW expansion vessel capacity	l	5	5	5	5
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
DHW nominal heat output (ΔT 30°C)	kW	17,5	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	0,5-6,0
Specific DHW flow ΔT=30K	l/min	19,5	22	22,5	23,4
Qualification of domestic hot water	-	***	***	***	***
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	%	0,40	0,61	1,13	0,87
Casing heat loss with burner off	%	0,53	0,21	0,2	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2,69	2,47	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	107	115	117	126
Maximum power absorption - version V	W	283	292	294	302
Maximum power absorption - version Z	W	387	395	398	406
Circulation pump power input	W	73	73	73	73
Power absorption of circulation pumps in the V version	W	245	245	245	245
Power absorption of circulation pumps in the Z version	W	343	343	343	343
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 specifications	um	Madeira Solar	Madeira Solar	Madeira Solar	Madeira Solar
Model	-	KRBS 12	KRBS 24	KRBS 28	KRBS 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	26,4	30,4
Reduced heat input (Qr)	kW	2,0	3,0	3,3	4,2
Nominal heat output (80-60°C) (Pn)	kW	11,6	22,9	25,4	29,4
Reduced heat output (80-60°C) (Pr)	kW	1,8	2,7	3,0	3,9
Heat output (50-30°C)	kW	12,6	24,9	27,9	32,3
Reduced heat output (50-30°C)	kW	2,1	3,22	3,58	4,4
Useful efficiency at nominal input (80-60°C)	%	97,1	96,7	96,4	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	105,1	105,5	106,2
Useful efficiency at 30% (30°C return)	%	106,0	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	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	10	10	10	10
DHW expansion vessel capacity	l	12	12	12	12
Solar expansion vessel capacity	l	18	18	18	18
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
DHW nominal heat output (ΔT 30°C)	kW	17,5	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	0,5-6,0
Specific DHW flow ΔT=30K	l/min	23,6	23,6	25,3	26,3
Qualification of domestic hot water	-	***	***	***	***
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	%	0,40	0,61	1,13	0,87
Casing heat loss with burner off	%	0,53	0,21	0,20	0,19
Chimney heat loss with burner on at nominal heat input	%	2,50	2,69	2,47	2,33
Air-flue ΔT at nominal heat input	°C	57,9	61	60	60
Flue gas flow at nominal heat input	g/s	8,25	12,43	13,93	15,81
CO2 at nominal heat input of heating (Natural gas)	%	9	9	9	9
CO2 at nominal heat input of heating (Propane)	%	10	10	10	10
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	122	130	132	140
Maximum power absorption - version V	W	299	308	310	318
Maximum power absorption - version Z	W	403	411	414	318
Circulation pump power input	W	35	43	46	49
Power absorption of circulation pumps in the V version	W	207	215	217	220
Power absorption of circulation pumps in the Z version	W	306	313	316	319
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 specifications	um	Madeira Solar Compact	Madeira Solar Compact
Model	-	KBS 24	KBS 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
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	22,9	29,4
Reduced heat output (80-60°C) (Pr)	kW	2,7	3,9
Heat output (50-30°C)	kW	24,9	32,3
Reduced heat output (50-30°C)	kW	3,22	4,4
Useful efficiency at nominal input (80-60°C)	%	96,7	96,8
Useful efficiency at nominal input (50-30°C)	%	105,1	106,2
Useful efficiency at 30% (30°C return)	%	106,5	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 expansion vessel capacity	l	12	12
Solar expansion vessel capacity	l	12	12
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	27,4	33,4
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	13,4	16,2
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	%	0,61	0,87
Casing heat loss with burner off	%	0,21	0,19
Chimney heat loss with burner on at nominal heat input	%	2,69	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	158	169
Maximum power absorption - version V	W	335	346
Maximum power absorption - version Z	W	439	449
Circulation pump power input	W	73	73
Power absorption of circulation pumps in the V version	W	245	245
Power absorption of circulation pumps in the Z version	W	344	343
Electric protection rating	IP	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

(**) with comfort function disabled.

STANDARD BOILERS

WALL-HUNG BOILERS

FLOOR STANDING BOILERS WITH GAS-FIRED ATMOSPHERIC BURNER

FLOOR STANDING BOILERS FOR BLOWN-AIR BURNERS

BURNERS

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

ITACA CTFS

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

- **Sanitary comfort function: ★★★**
- **Double filling system: automatic and manual**
- **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**
- **Controls to manage two different types of solar thermal systems fitted as standard**
- 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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

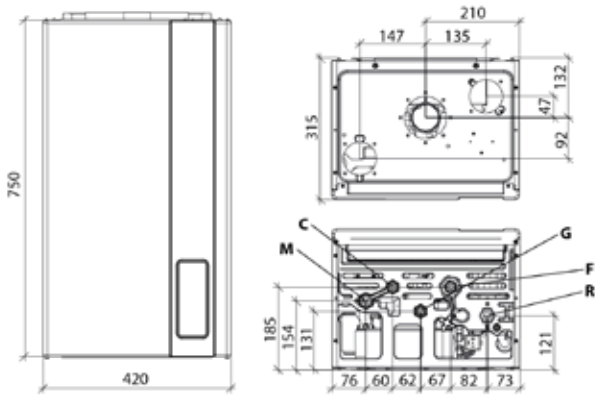
24 28 32

TOUCH SCREEN INTERFACE

- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *DHW "comfort" function enabling*

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 24	NATURAL GAS	CIBXX2CA24	25,5	25,5	420x750x315	38,50
	LPG	CIBXX3CA24				
CTFS 28	NATURAL GAS	CIBXX2CA28	30,5	30,5	420x750x315	39,00
	LPG	CIBXX3CA28				
CTFS 32	NATURAL GAS	CIBXX2CA32	33,0	33,0	420x750x315	39,50
	LPG	CIBXX3CA32				

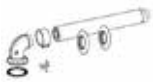
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 144 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps 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
	Kit for connection to solar plant	0KITSOLC07
	Electric kit for complex solar plant management	0KITSOLC08

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00
	Coaxial air intake/flue gas venting connection for B22 type installations	0ATTCOVE04
	Coaxial flue kit	0SDOPPIA13
	Cover and anti-freeze protection kit	0KITCOPE03
	External protection kit for standard boilers	0KITCOPE04

For other accessories, see from page 195

ITACA 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)

- **Integrated 3-way deviating valve**
- **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)**
- **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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

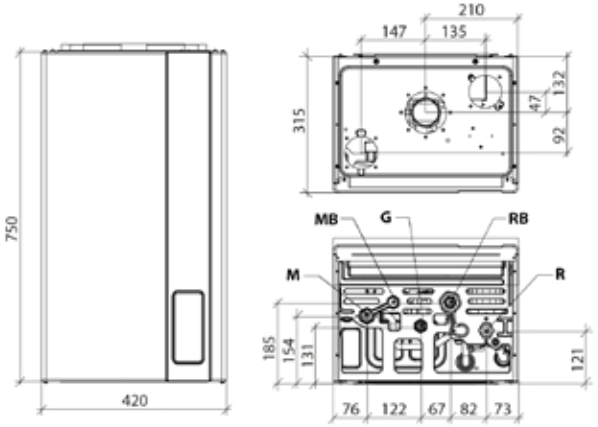
24 28 32

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 24	NATURAL GAS	CIBXX2RF24	25,5	420x750x315	35,50
	LPG	CIBXX3RF24			
RBTFS 28	NATURAL GAS	CIBXX2RF28	30,5	420x750x315	36,50
	LPG	CIBXX3RF28			
RBTFS 32	NATURAL GAS	CIBXX2RF32	33,0	420x750x315	37,00
	LPG	CIBXX3RF32			

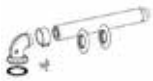
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 145 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps 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
	Electric kit for complex solar plant management	0KITSOLC08
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00

Item	Description	Code
	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
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

ITACA 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)

- **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)**
- **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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

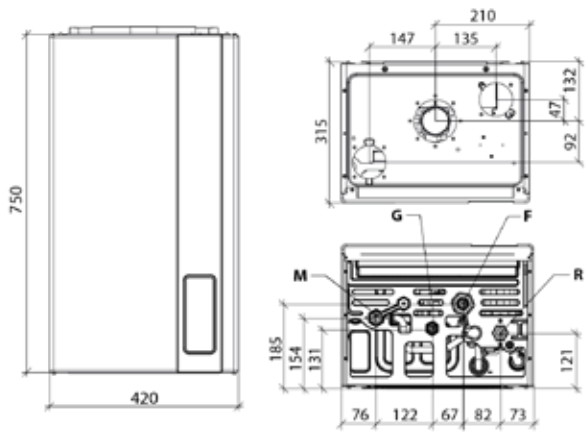
24 28 32

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 24	NATURAL GAS	CIBXX2RA24	25,5	420x750x315	35,50
	LPG	CIBXX3RA24			
RTFS 28	NATURAL GAS	CIBXX2RA28	30,5	420x750x315	36,50
	LPG	CIBXX3RA28			
RTFS 32	NATURAL GAS	CIBXX2RA32	33,0	420x750x315	37,00
	LPG	CIBXX3RA32			

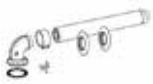
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Technical specifications	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% (30°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 146 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps cover	0COPETUB03
	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
	Electric kit for complex solar plant management	0KITSOLC08
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	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
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 195

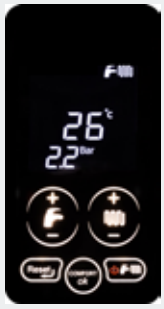
FORMENTERA CTFS

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
- Installation flexibility thanks to IPX5D electrical protection degree
- 3-speed circulation pump with built-in air purging device

Available in the following models:

24 28 32

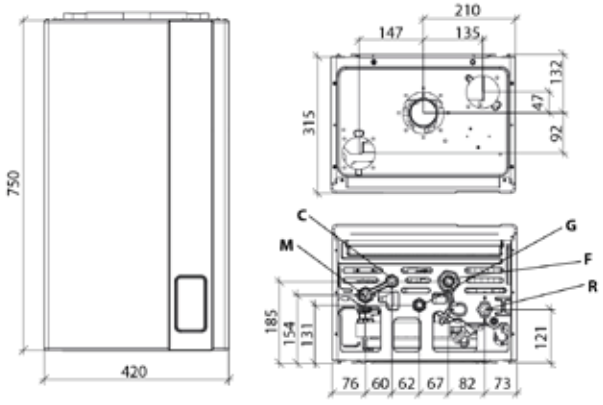


TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		L 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				

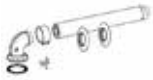
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 147 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps 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
	Temperature probe for solar plants	PSPTMILL00

Item	Description	Code
	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 195

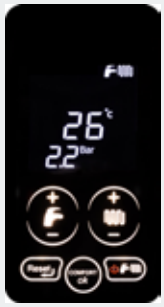
FORMENTERA CTN

WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL 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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

24 28

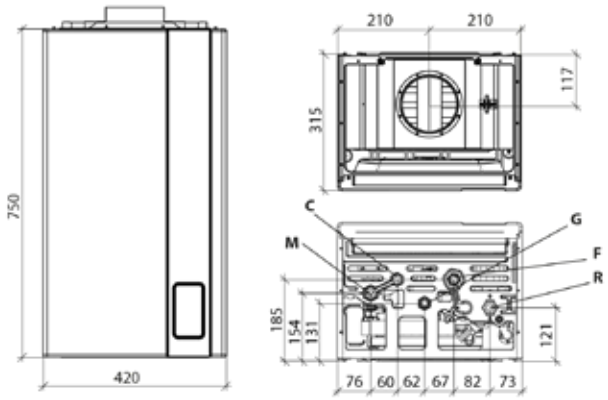


TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTN 24	NATURAL GAS	CFNXX2CC24	25,5	25,5	420x750x315	36,00
	LPG	CFNXX3CC24				
CTN 28	NATURAL GAS	CFNXX2CC28	30,5	30,5	420x750x315	36,50
	LPG	CFNXX3CC28				

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 specifications	um	CTN 24	CTN 28
Nominal heat input (Qn)	kW	25,5	30,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat input (Qr)	kW	10,0	12,5
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
Heating expansion vessel capacity	l	7	7
DHW nominal heat input	kW	25,5	30,5
Specific DHW flow ΔT=30K	l/min	11,2	13,5
NOx emission class	-	2	2
Electric protection rating	IP	X5D	X5D

For other technical specifications, see from page 148 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Flow - return cold water 90° taps kit	0KITIDBA11
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05

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

For other accessories, see from page 195

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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

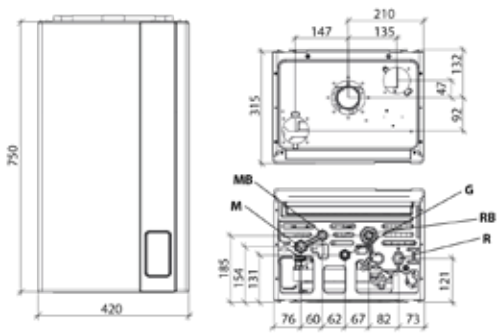
24 28 32

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input	L 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			

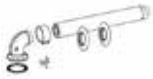
DIMENSIONS AND CONNECTION CENTRE DISTANCES



M	CH system flow (3/4")	**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 specifications	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% (30°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 149 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps 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
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	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 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

FORMENTERA 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)

- **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
- Installation flexibility thanks to IPX5D electrical protection degree

Available in the following models:

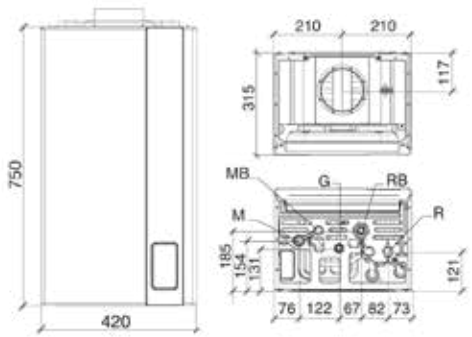
24 28

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTN 24	NATURAL GAS	CFNXX2RH24	25,5	420x750x315	34,50
	LPG	CFNXX3RH24			
RBTN 28	NATURAL GAS	CFNXX2RH28	30,5	420x750x315	35,00
	LPG	CFNXX3RH28			

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 specifications	um	RBTN 24	RBTN 28
Nominal heat input (Qn)	kW	25,5	30,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat input (Qr)	kW	10,0	12,5
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
Heating expansion vessel capacity	l	7	7
NOx emission class	-	2	2
Electric protection rating	IP	X5D	X5D

For other technical specifications, see from page 150 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Flow - return cold water 90° taps kit	0KITIDBA11
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Electric kit for complex solar plant management	0KITSOLC08

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

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**
- Installation flexibility thanks to IPX5D electrical protection degree
- 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

Available in the following models:

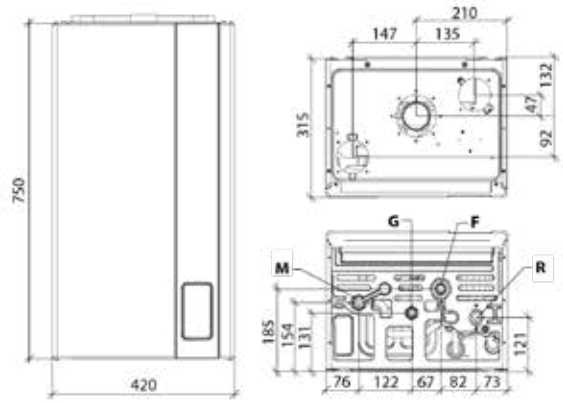
24 28 32

TOUCH SCREEN INTERFACE

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

Model	Gas type	Code	Heat input	L 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			

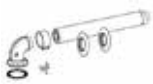
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Technical specifications	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% (30°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 151 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps 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
	Electric kit for complex solar plant management	0KITSOLC08

Item	Description	Code
	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 195

FORMENTERA RTN

WALL-HUNG GAS BOILER WITH OPEN CHAMBER AND NATURAL 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**
- Installation flexibility thanks to IPX5D electrical protection degree
- 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

TOUCH SCREEN INTERFACE

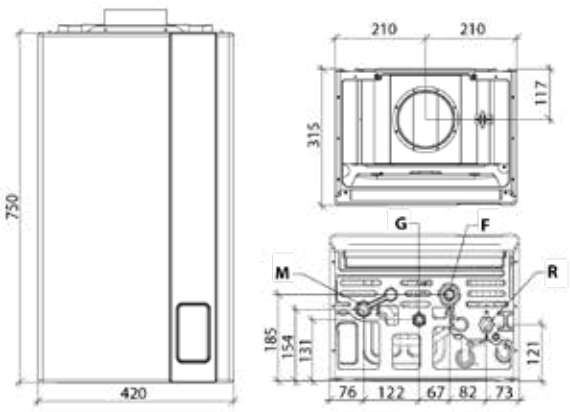
- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

Available in the following models:

24 28

Model	Gas type	Code	Heat input	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTN 24	NATURAL GAS	CFNXX2RC24	25,5	420x750x315	34,50
	LPG	CFNXX3RC24			
RTN 28	NATURAL GAS	CFNXX2RC28	30,5	420x750x315	35,00
	LPG	CFNXX3RC28			

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 specifications	um	RTN 24	RTN 28
Nominal heat input (Qn)	kW	25,5	30,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat input (Qr)	kW	10,0	12,5
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
Heating expansion vessel capacity	l	7	7
NOx emission class	-	2	2
Electric protection rating	IP	X5D	X5D

For other technical specifications, see from page 152 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Pipes and taps cover	0COPETUB03
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Tap kit with filter KR-KB-RT	0KITRUBI04
	Electric kit for complex solar plant management	0KITSOLC08

Item	Description	Code
	Electrical kit for zone management with external probe	0KITZONE05
	Temperature probe for solar plants	PSPTMILL00
	hot water storage tank temperature probe 3m	0KITSOND00

For other accessories, see from page 195

ANTEA CTN AF

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

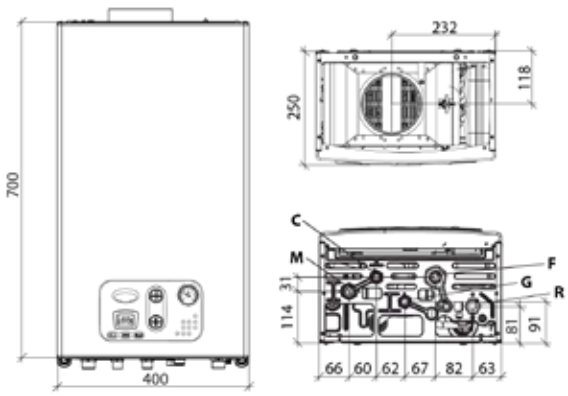
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **5-pipe, bi-thermal, high efficiency, copper heat exchanger**
- **Heating expansion vessel - 7 litres**
- Flame modulation in CH and DHW modes
- Programmable parameters to adapt the boiler to the installation and alerts history
- Pump unit including: air purging device, water pressure switch, safety valve calibrated at 3 bar, discharge tap and filler tap
- NTC temperature probe on flow and return lines
- Anti-fast, anti-freeze, pump anti-seizing, pump post-circulation and flue cleaning functions
- Exclusive compact version circulation pump with integrated air purging device

Available in the following models:

24

Model	Gas type	Code	Heat input		L x H x P	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTN 24 AF	NATURAL GAS	CAAXX2CC24	24,5	24,5	400x700x250	24,50
	LPG	CAAXX3CC24				

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 specifications	um	CTN 24 AF
Nominal heat input (Qn)	kW	24,5
Nominal heat output (80-60°C) (Pn)	kW	22,1
Reduced heat input (Qr)	kW	12,0
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (30°C return)	%	89,2
Heating expansion vessel capacity	l	7
DHW nominal heat input	kW	24,5
Specific DHW flow ΔT=30K	l/min	10,3
NOx emission class	-	2
Electric protection rating	IP	X4D

For other technical specifications, see from page 153 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	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

For other accessories, see from page 195

ANTEA CTFS AF

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

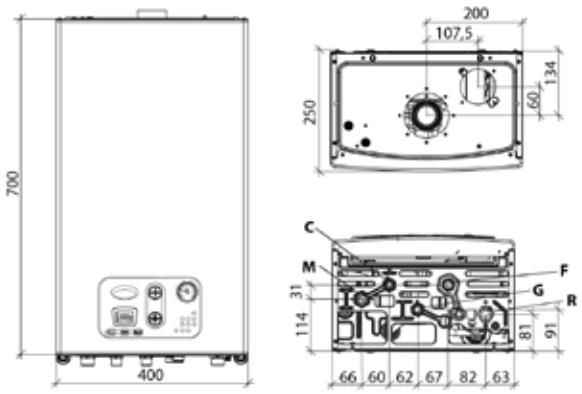
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **5-pipe, bi-thermal, high efficiency, copper heat exchanger**
- **Heating expansion vessel - 7 litres**
- Flame modulation in CH and DHW modes
- Programmable parameters to adapt the boiler to the installation and alerts history
- NTC temperature probe on flow and return lines
- Pump unit including: air purging device, water pressure switch, safety valve calibrated at 3 bar, discharge tap and filler tap
- Anti-fast, anti-freeze, pump anti-seizing, pump post-circulation and flue cleaning functions
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Exclusive compact version circulation pump with integrated air purging device

Available in the following models:

24

Model	Gas type	Code	Heat input		L x H x P	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 24 AF	NATURAL GAS	CAAXX2CA24	25,5	25,5	400x700x250	27,00
	LPG	CAAXX3CA24				

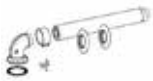
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	um	CTFS 24 AF
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)	%	93,1
Useful efficiency at 30% (30°C return)	%	90,5
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	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 154 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	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
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 195

ANTEA CTN

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

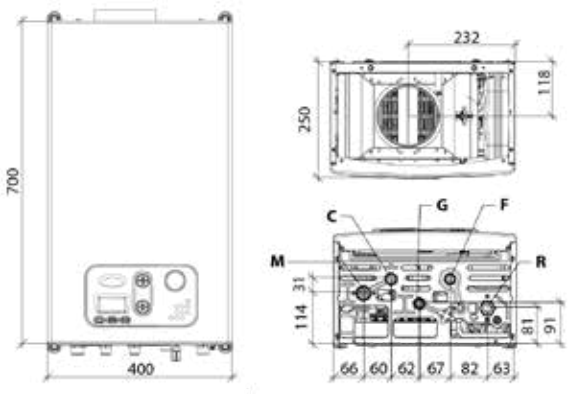
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Heating expansion vessel - 7 litres
- 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)
- Mono-thermal primary heat exchanger
- Automatic by-pass

Available in the following models:

24

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTN 24	NATURAL GAS	CAHXX2CC24	24,5	24,5	400x700x250	25,00
	LPG	CAHXX3CC24				

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 specifications	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% (30°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

Item	Description	Code
	Compact wall pipe cover	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 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 195

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)

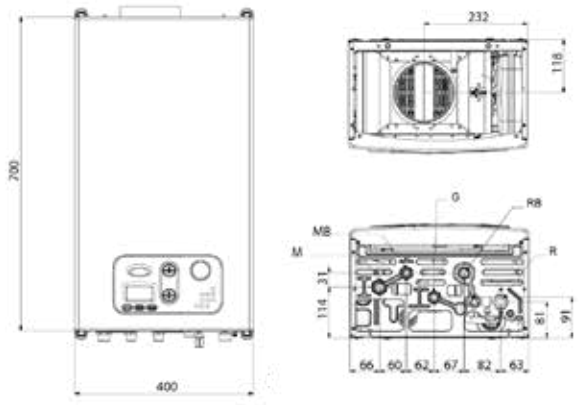
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- **Integrated 3-way deviating valve**
- Mono-thermal primary heat exchanger
- Heating expansion vessel - 7 litres
- Hydraulic unit in composite material
- Programmable parameters to adapt the boiler to the installation and alerts history
- 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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTN 24	NATURAL GAS	CAHXX2RH24	24,5	400x700x250	25,00
	LPG	CAHXX3RH24			

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 specifications	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% (30°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 156 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	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
	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 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

ANTEA CTFS

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

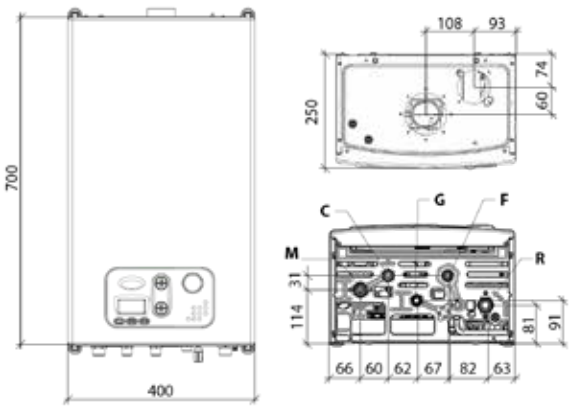
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- Heating expansion vessel - 7 litres
- 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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
CTFS 24	NATURAL GAS	CAHXX2CA24	25,5	400x700x250	28,00
	LPG	CAHXX3CA24			

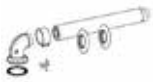
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 157 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	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
	Plus hydr. kit for basic compact unit	0KITIDBA14

Item	Description	Code
	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 195

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)

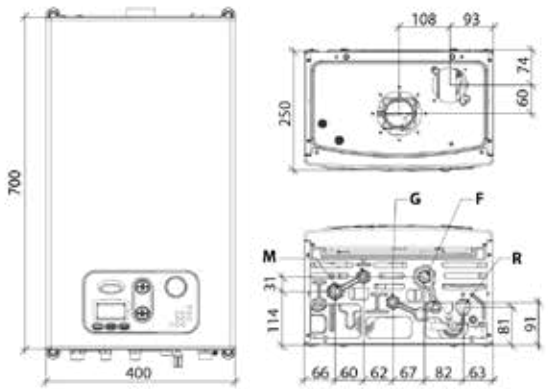
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Heating expansion vessel - 7 litres
- 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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 24	NATURAL GAS	CAHXX2RA24	25,5	400x700x250	27,50
	LPG	CAHXX3RA24			

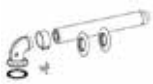
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Technical specifications	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% (30°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 158 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	0COPETUB00
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	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 195

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)

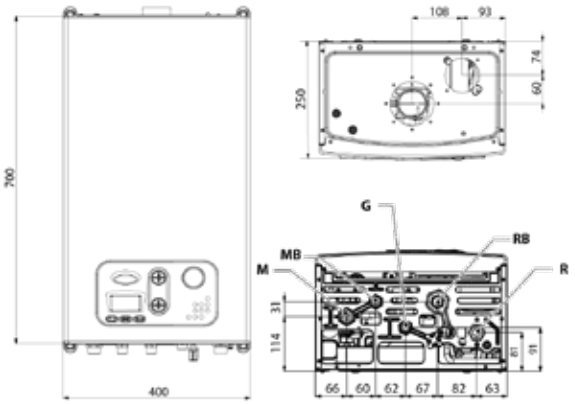
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Mono-thermal primary heat exchanger**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 24	NATURAL GAS	CAHXX2RF24	25,5	400x700x250	27,50
	LPG	CAHXX3RF24			

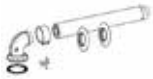
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 159 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	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
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	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 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

ANTEA CTFS 40

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

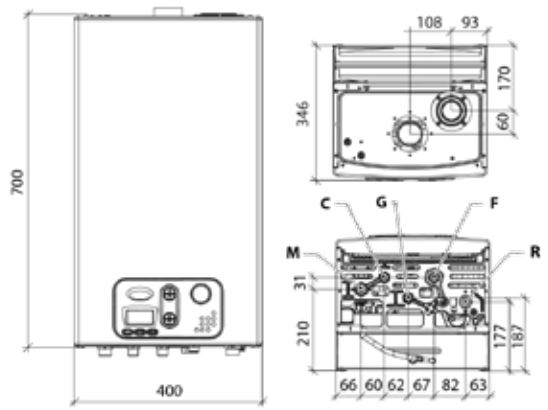
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Heating expansion vessel - 10 litres**
- **Thermoregulation with external probe (optional)**
- **High domestic hot water production (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		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 40	NATURAL GAS	CAHXX2CA40	41,0	41,0	400x700x346	33,00
	LPG	CAHXX3CA40				

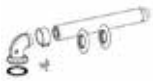
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	um	CTFS 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% (30°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 160 - Maximum length of flue gas venting, see page 196

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
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	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

For other accessories, see from page 195

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)

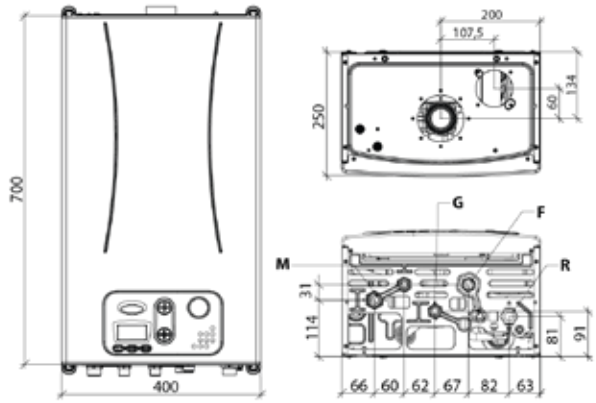
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- Stainless steel, atmospheric burner 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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RTFS 40	NATURAL GAS	CAHXX2RA40	41,0	400x700x250	24,40
	LPG	CAHXX3RA40			

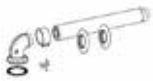
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Technical specifications	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% (30°C return)	%	89,4
NOx emission class	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 161 - Maximum length of flue gas venting, see page 196

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
	Electrical kit for zone management with external probe	0KITZONE05

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	hot water storage tank temperature probe 3m	0KITSOND00
	Coaxial flue kit	0SDOPPIA13

For other accessories, see from page 195

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)

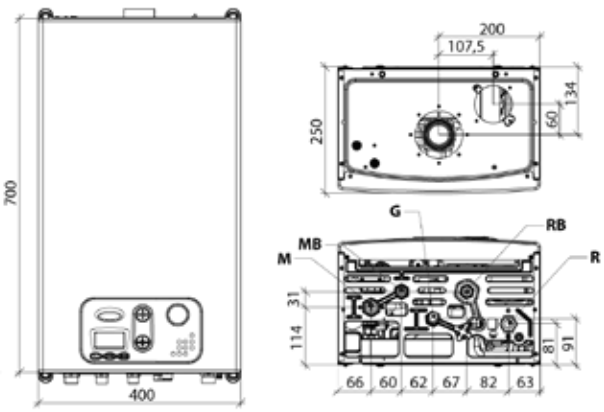
- **LCD user interface with diagnostics**
- **Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal**
- **Thermoregulation with external probe (optional)**
- **Programmable parameters to adapt the boiler to the installation and alerts 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	L x H x D	Gross weight
			Nominal (Qn) kW	mm	kg
RBTFS 40	NATURAL GAS	CAHXX2RF40	41,0	400x700x250	24,50
	LPG	CAHXX3RF40			

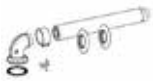
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°C return)	%	89,4
NOx emission class	-	3
Electric protection rating	IP	X4D

For other technical specifications, see from page 162 - Maximum length of flue gas venting, see page 196

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
	External probe (60x45x31 mm)	0SONDAES01

Item	Description	Code
	Coaxial flue kit	0SDOPPIA13
	Electric kit for complex solar plant management	0KITSOLC08

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	hot water storage tank temperature probe 3m

MAIORCA CTFS

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

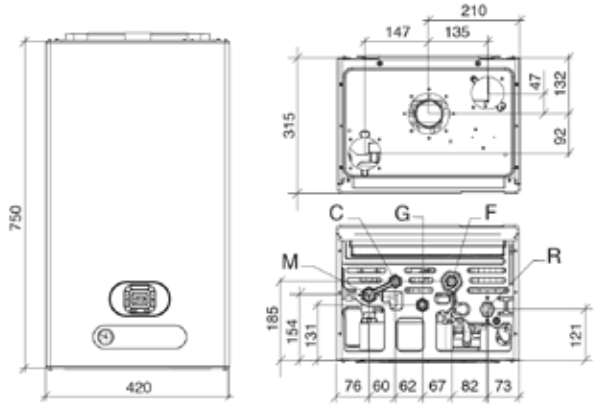
- **Ambient temperature probe supplied as standard**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Thermoregulation with external probe (optional)**
- **LCD user interface with diagnostics**
- Mono-thermal primary heat exchanger
- 3-speed circulation pump with 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
- Hydraulic unit in composite material
- Automatic by-pass

Available in the following models:

24 28 32

Model	Gas type	Code	Heat input		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 24	NATURAL GAS	CMGXX2CA24	25,5	25,5	420x750x315	37,50
	LPG	CMGXX3CA24				
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				

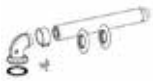
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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	X4D	X4D	X4D

For other technical specifications, see from page 163 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Remote control, ErP V class (118x85x32 mm)	0CREMOTO04
	Wall spacing kit	0DISTANZ00
	Pipes and taps 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
	Split comp. plus kit '11 (while stocks last)	0SDOPPIA12

Item	Description	Code
	External probe (60x45x31 mm)	0SONDAES01
	Basic hydraulic kit	0KITIDBA16
	4 angled tap valves kit	0KITIDBA24

For other accessories, see from page 195

Accessories supplied as standard

Item	Description
	Ambient temperature probe

MINORCA CTFS

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

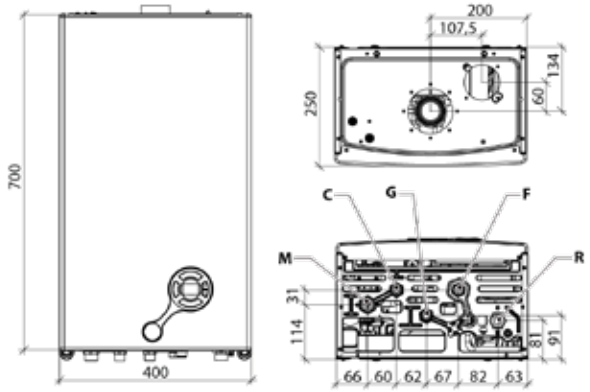
- **High-efficiency monothermal heat exchanger**
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Ambient temperature probe supplied as standard**
- Stainless steel plate DHW heat 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		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 9	NATURAL GAS	CMEXX2CA09	10,4	20,0	400x700x250	25,00
	LPG	CMEXX3CA09				
CTFS 11	NATURAL GAS	CMEXX2CA11	12,3	20,0	400x700x250	25,00
	LPG	CMEXX3CA11				
CTFS 13	NATURAL GAS	CMEXX2CA13	14,2	20,0	400x700x250	25,00
	LPG	CMEXX3CA13				
CTFS 15	NATURAL GAS	CMEXX2CA15	16,4	20,0	400x700x250	25,00
	LPG	CMEXX3CA15				
CTFS 18	NATURAL GAS	CMEXX2CA18	20,0	20,0	400x700x250	25,50
	LPG	CMEXX3CA18				
CTFS 24	NATURAL GAS	CMEXX2CA24	25,5	25,5	400x700x250	25,50
	LPG	CMEXX3CA24				

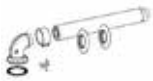
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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 164 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	0COPETUB00
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	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 KC-KRB-CT-RBT	0KITRUBI05
	External probe (60x45x31 mm)	0SONDAES01
	Coaxial flue kit	0SDOPPIA13
	Ambient temperature probe	0KITSAMB00

For other accessories, see from page 195

MINORCA CTFS (CU)

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

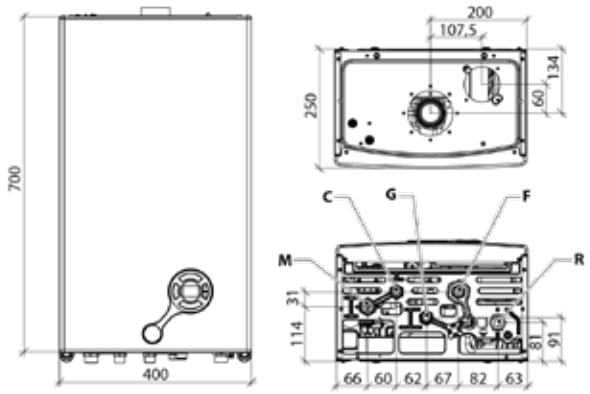
- **Mono-thermal, copper heat exchanger**
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Ambient temperature can be set from the boiler if an ambient probe is installed**
- **Ambient temperature probe supplied as standard**
- Stainless steel plate DHW heat exchanger
- 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		L x H x D	Gross weight
			Nominal (Qn) kW	Nominal DHW kW	mm	kg
CTFS 9	NATURAL GAS	CMEXX2CG09	10,4	20,0	400x700x250	25,00
	LPG	CMEXX3CG09				
CTFS 11	NATURAL GAS	CMEXX2CG11	12,3	20,0	400x700x250	25,00
	LPG	CMEXX3CG11				
CTFS 13	NATURAL GAS	CMEXX2CG13	14,2	20,0	400x700x250	25,00
	LPG	CMEXX3CG13				
CTFS 15	NATURAL GAS	CMEXX2CG15	16,4	20,0	400x700x250	25,00
	LPG	CMEXX3CG15				
CTFS 18	NATURAL GAS	CMEXX2CG18	20,0	20,0	400x700x250	25,50
	LPG	CMEXX3CG18				
CTFS 24	NATURAL GAS	CMEXX2CG24	25,5	25,5	400x700x250	25,50
	LPG	CMEXX3CG24				

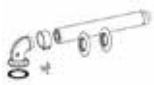
DIMENSIONS AND CONNECTION CENTRE DISTANCES



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 specifications	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% (30°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=25K	l/min	11,4	11,4	11,4	11,4	11,4	14,0
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 164 - Maximum length of flue gas venting, see page 196

Item	Description	Code
	Compact wall pipe cover	0COPETUB00
	Coaxial kit D60/100 L=1m (for boiler TFS)	0KITCONC00
	Flow - return cold water 90° taps kit	0KITIDBA11
	Plus hydr. kit for basic compact unit	0KITIDBA14

Item	Description	Code
	Basic hydraulic kit	0KITIDBA29
	Tap kit with filter KC-KRB-CT-RBT	0KITRUBI05
	Coaxial flue kit	0SDOPPIA13
	External probe (60x45x31 mm)	0SONDAES01

For other accessories, see from page 195

BALI RTN E

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

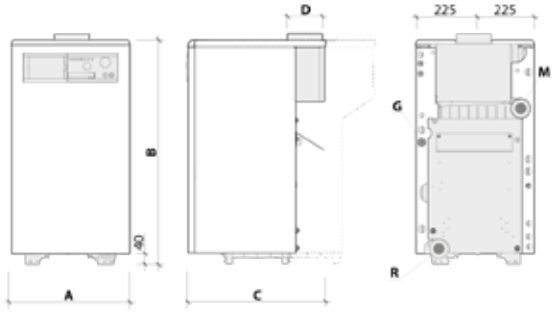
- **Stainless steel atmospheric burner**
- **Electronic ignition and ionisation flame detection device**
- **Heat exchanger with cast iron elements**
- Prearrangement for connection to the electric board (optional) for the remote management of a water heater (optional), and for the connection to the electric board (optional) for the management of three heating zones
- 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 18 to 100

Model	Gas type	Code	Heat output (kW)	A x B x C	D	G	Gross weight (kg)
			Nominal Pn	mm	mm	inches	
RTN E 18	NATURAL GAS	CBAXX2MF18	18	450x850x525	110	¾"	116
	LPG	CBAXX3MF18					
RTN E 24	NATURAL GAS	CBAXX2MF24	24	450x850x525	130	¾"	116
	LPG	CBAXX3MF24					
RTN E 32	NATURAL GAS	CBAXX2MF32	31.5	450x850x625	130	¾"	151
	LPG	CBAXX3MF32					
RTN E 36	NATURAL GAS	CBAXX2MF36	36	450x850x625	130	¾"	151
	LPG	CBAXX3MF36					
RTN E 48	NATURAL GAS	CBAXX2MF48	48	450x850x765	150	¾"	183,5
	LPG	CBAXX3MF48					
RTN E 60	NATURAL GAS	CBAXX2MF60	60	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

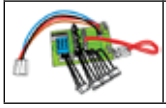


G Gas connection (see table)
M Flow (1" 1/2)
R Return (1" 1/2)

Model	-	RTN E 18	RTN E 24	RTN E 32	RTN E 36	RTN E 48
Type	-	B11BS	B11BS	B11BS	B11BS	B11BS
Ignition	-	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
Heat exchanger number of elements	-	3	3	4	4	5
Nominal heat output (80-60°C) (Pn)	kW	18	24	31.5	36	48
Nominal heat input (Qn)	kW	20	26.6	34.4	39.2	52.8
Useful efficiency at nominal input (80-60°C)	%	89.6	90.9	90.9	90.83	91.84
Useful efficiency at 30% (30°C return)	%	89.2	91.1	89	90.75	90.4
Water capacity	l	10	10	13,4	13,4	16,8
Minimum water flow	l/h	400	520	680	770	1030
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	110	130	130	130	150
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50
Maximum power consumption	W	10	10	10	10	10
Electric protection rating	IP	40	40	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

Maximum length of flue gas venting, see page 196

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 - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITBEST06

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

For other accessories, see from page 195

BALI RTN PVE

FLOOR STANDING BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT, CH ONLY
CIRCULATION PUMP AND EXPANSION VESSEL INCLUDED

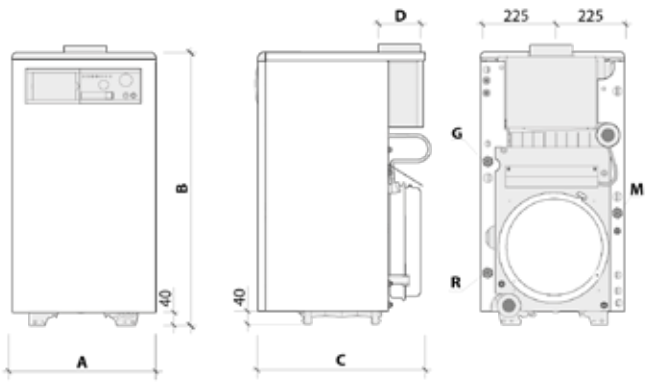
- **Stainless steel atmospheric burner**
- **Electronic ignition and ionisation flame detection device**
- **Heat exchanger with cast iron elements**
- **CH circulation pump**
- **CH expansion vessel**
- Prearrangement for connection to the electric board (optional) for the remote management of a water heater (optional), and for the connection to the electric board (optional) for the management of three heating zones
- 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 18 to 36

Model	Gas type	Code	Heat output (kW)	A x B x C	D	Gross weight (kg)
			Nominal Pn	mm	mm	
RTN PVE 18	NATURAL GAS	CBAXX2MH18	18	450x850x525	110	125,5
	LPG	CBAXX3MH18				
RTN PVE 24	NATURAL GAS	CBAXX2MH24	24	450x850x525	130	125,5
	LPG	CBAXX3MH24				
RTN PVE 32	NATURAL GAS	CBAXX2MH32	31.5	450x850x625	130	159
	LPG	CBAXX3MH32				
RTN PVE 36	NATURAL GAS	CBAXX2MH36	36	450x850x625	130	159
	LPG	CBAXX3MH36				

DIMENSIONS AND CONNECTION CENTRE DISTANCES



G Gas connection (3/4")
M Flow (3/4")
R Return (3/4")

Model	-	RTN PVE 18	RTN PVE 24	RTN PVE 32	RTN PVE 36
Type	-	B11BS	B11BS	B11BS	B11BS
Ignition	-	ELECTRONIC	ELECTRONIC	ELECTRONIC	ELECTRONIC
Heat exchanger number of elements	-	3	3	4	4
Nominal heat output (80-60°C) (Pn)	kW	18	24	31.5	36
Nominal heat input (Qn)	kW	20	26.6	34.4	39.2
Useful efficiency at nominal input (80-60°C)	%	89.6	90.9	90.9	90.83
Useful efficiency at 30% (30°C return)	%	89.2	91.1	89	90.75
Water capacity	l	10	10	13,4	13,4
Minimum water flow	l/h	400	520	680	770
CH temperature setting range	°C	45 ÷ 85	45 ÷ 85	45 ÷ 85	45 ÷ 85
Maximum pressure of the heating circuit	bar	3	3	3	3
Heating expansion vessel capacity	l	8	8	10	10
Flue gas discharge pipe diameter	mm	110	130	130	130
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Maximum power consumption	W	110	110	110	110
Electric protection rating	IP	40	40	40	40

Maximum length of flue gas venting, see page 196

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

Item	Description	Code
	External hot water storage tank kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITBEST06
	Thermoregulation control unit kit, ErP II class (143x97x74 mm)	0KITCEEL02
	Kit for zone pumps	0KITPOMZ00
	Ext. heat. kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITPOVA03

For other accessories, see from page 195

BALI RTN T

FLOOR STANDING BOILER WITH OPEN CHAMBER AND NATURAL DRAUGHT, CH ONLY
OPERATION WITH NO POWER SUPPLY

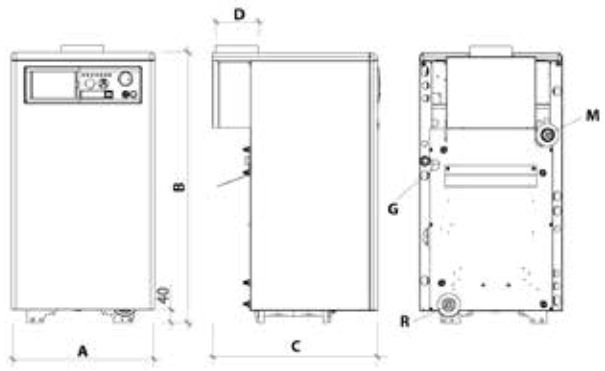
- **Stainless steel atmospheric burner**
- **Piezoelectric ignition with permanent pilot**
- **Heat exchanger with cast iron elements**
- Safety limit thermostat
- Safety flue gas thermostat

Available in the following models:

24 32 48

Model	Gas type	Code	Heat output (kW)	A x B x C	D	Gross weight (kg)
			Nominal Pn	mm	mm	
RTN T 24	NATURAL GAS	CBAXX2NB24	24	450x850x525	130	118
	LPG	CBAXX3NB24				
RTN T 32	NATURAL GAS	CBAXX2NB32	31,5	450x850x625	130	153,5
	LPG	CBAXX3NB32				
RTN T 48	NATURAL GAS	CBAXX2NB48	48	450x850x765	150	188,5
	LPG	CBAXX3NB48				

DIMENSIONS AND CONNECTION CENTRE DISTANCES



G Gas connection (3/4")
M Flow (1" 1/2)
R Return (1" 1/2)

Model	-	RTN T 24	RTN T 32	RTN T 48
Type	-	B11BS	B11BS	B11BS
Ignition	-	PIEZOELECTRIC	PIEZOELECTRIC	PIEZOELECTRIC
Heat exchanger number of elements	-	3	4	5
Nominal heat output (80-60°C) (Pn)	kW	24	31,5	48
Nominal heat input (Qn)	kW	26,6	34,4	52,8
Useful efficiency at nominal input (80-60°C)	%	90,9	90,9	91,84
Useful efficiency at 30% (30°C return)	%	91,1	89	90,4
Water capacity	l	10	13,4	16,8
Minimum water flow	l/h	520	680	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

Maximum length of flue gas venting, see page 196

BALI RTFS E

FLOOR STANDING BOILER WITH SEALED CHAMBER AND FORCED DRAUGHT, CH ONLY

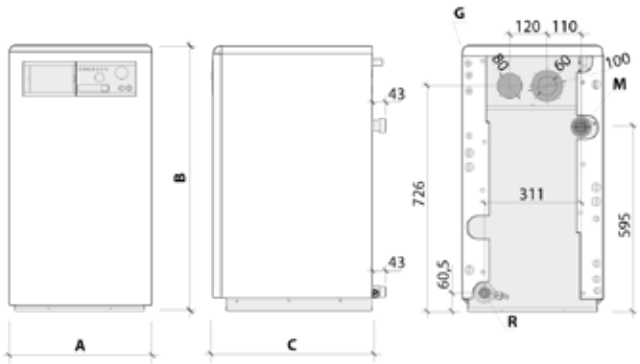
- **Stainless steel atmospheric burner**
- **Electronic ignition and ionisation flame detection device**
- **Heat exchanger with cast iron elements**
- Prearrangement for connection to the electric board (optional) for the remote management of a water heater (optional), and for the connection to the electric board (optional) for the management of three heating zones
- 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:

32 36

Model	Gas type	Code	Heat output (kW)	A x B x C	Gross weight (kg)
			Nominal Pn	mm	
RTFS E 32	NATURAL GAS	CBAXX2MG32	32	450x850x610	169
	LPG	CBAXX3MG32			
RTFS E 36	NATURAL GAS	CBAXX2MG36	36,5	450x850x610	169
	LPG	CBAXX3MG36			

DIMENSIONS AND CONNECTION CENTRE DISTANCES



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

Model	-	RTFS E 32	RTFS E 36
Type	-	C12, C32, C42, C52, C82	C12, C32, C42, C52, C82
Ignition	-	ELECTRONIC	ELECTRONIC
Heat exchanger number of elements	-	4	4
Nominal heat output (80-60°C) (Pn)	kW	32	36,5
Nominal heat input (Qn)	kW	34,4	39,2
Useful efficiency at nominal input (80-60°C)	%	93,1	93,1
Useful efficiency at 30% (30°C return)	%	92,08	92,14
Water capacity	l	13,4	13,4
Minimum water flow	l/h	690	780
CH temperature setting range	°C	45 ÷ 85	45 ÷ 85
Maximum pressure of the heating circuit	bar	4	4
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	60	60
Electric protection rating	IP	40	40
Air intake/flue gas vent pipe diameter	mm	100/60 80+80	100/60 80+80

Maximum length of flue gas venting, see page 196

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 - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITBEST06
	Thermoregulation control unit kit, ErP II class (143x97x74 mm)	0KITCEEL02

Item	Description	Code
	Kit for zone pumps	0KITPOMZ00
	Ext. heat. kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITPOVA03
	Pump and vessel kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dualfor hot water storage tank	0KITPOVA04
	Hydraulic kit with pump and expansion tank - Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITPOVA05
	Standard split pipe kit for Bali RTFS E	0SDOPPIA05

For other accessories, see from page 195

ELBA DUAL

FLOOR STANDING BOILER
FOR OPERATION WITH DIESEL AND GAS FORCED DRAF BURNERS (OPTIONAL)

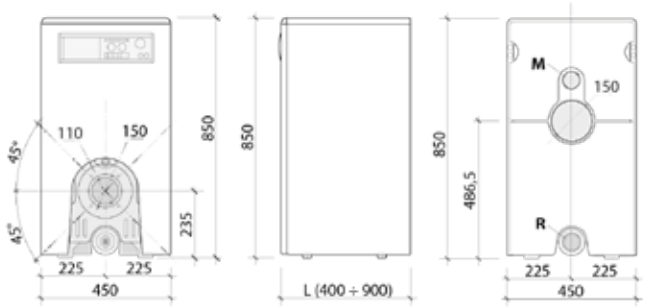
- **Control and management electric panel, CH circulation pump control, prearranged for connection to the ambient thermostat and to a water pressure switch**
- **Heat exchanger with three-pass fire-tube cast iron elements**
- **Easy maintenance**
- Prearrangement for connection to the electric board (optional) for the remote management of a water heater (optional), and for the connection to the electric board (optional) for the management of three heating zones
- Thick insulation against heat dissipation
- Safety limit thermostat
- Casing in powder coated electro-galvanised steel sheet

Available in the following models:

from 23 to 73

Model	Code	Heat output (kW)	L	M	R	Gross weight (Kg)
23	CEBXXGNB23	24	400	G 1 ¼	G 1	132,5
33	CEBXXGNB33	33	525	G 1 ¼	G 1	159,5
43	CEBXXGNB43	43	625	G 1 ¼	G 1	191
53	CEBXXGNB53	53	700	G 1 ¼	G 1	213
63	CEBXXGNB63	63	800	G 1 ¼	G 1	239
73	CEBXXGNB73	73	900	G 1 ¼	G 1	263,5

DIMENSIONS AND CONNECTION CENTRE DISTANCES



M Flow **R** Return

Technical specifications	um	23	33	43	53	63	73
Type	-	B23	B23	B23	B23	B23	B23
Nominal heat input (Qn)	kW	26,6	36,3	47,2	57,9	68,5	79,3
Nominal heat output (80-60°C) (Pn)	kW	24	33	43	53	63	73
Useful efficiency at nominal input (80-60°C)	%	90	91	91	91,5	92	92
Useful efficiency at 30% (30°C return)	%	89,7	90,7	90,7	91,1	91,6	91,6
CH temperature setting range	°C	49-82	49-82	49-82	49-82	49-82	49-82
Flue gas flow at nominal heat input	g/s	11,1	14,8	19,3	23,1	27,1	31,8
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Electric protection rating	IP	40	40	40	40	40	40

Maximum length of flue gas venting, see page 196

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 - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITBEST06

Item	Description	Code
	Thermoregulation control unit kit, ErP II class (143x97x74 mm)	0KITCEEL02
	Kit for zone pumps	0KITPOMZ00
	Ext. heat. kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITPOVA03
	Pump and vessel kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dualfor hot water storage tank	0KITPOVA04
	Hydraulic kit with pump and expansion tank - Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual	0KITPOVA05

For other accessories, see from page 195

RODI DUAL 70-1300

STEEL FLOOR STANDING BOILER
FOR OPERATION WITH DIESEL AND GAS FORCED DRAF BURNERS (OPTIONAL)

- **Flue gas pipes boiler body in steel with reverse flame furnace**
- **Very thick steel flue gas pipes and with helical turbulators**
- **Front door with reversible opening**
- Maximum operating pressure: 6 bar, higher pressure values available upon request
- Control and management electric panel (to be ordered separately) in the standard version (C) with two-stage burner control, heating circulation pump control, recirculation pump control, external hot water storage tank pre-setting, operating and alarm signals; moreover the multi-zone version (PC) is equipped with a control for three zone pumps
- Rear fume chamber that can be opened for flue gas pipe inspection and cleaning
- Casings in powder coated metal sheet

Available in the following models:

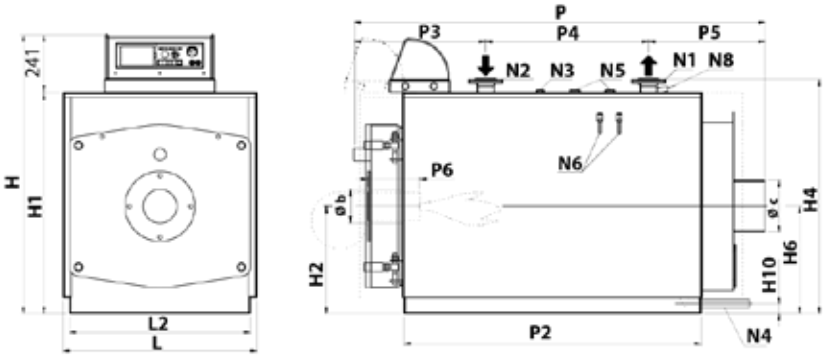
from 70 to 1300

Model	Code	Power		L x H x D	Gross weight
		max (kW)	min (kW)	mm	kg
70	CRPXXGNB70	70	35	750x1030x1055	216
80	CRPXXGNB80	80	40	750x1030x1055	216
90	CRPXXGNB90	90	45	750x1030x1195	258
100	CRPXXGNB1A	100	50	750x1030x1195	258
120	CRPXXGNB1C	120	60	750x1030x1195	258
150	CRPXXGNB1F	150	75	800x1080x1440	346
200	CRPXXGNB2A	200	100	800x1080x1440	346
250	CRPXXGNB2F	250	125	800x1180x1690	431
300	CRPXXGNB3A	300	150	900x1180x1690	475
350	CRPXXGNB3F	350	175	900x1180x1940	542
400	CRPXXGNB4A	420	210	940x1190x1872	584
500	CRPXXGNB5A	500	250	1160x1380x1950	853
620	CRPXXGNB6C	620	310	1160x1380x2240	963
750	CRPXXGNB7F	750	375	1290x1510x2255	1205
850	CRPXXGNB8F	850	425	1290x1510x2255	1205
950	CRPXXGNB9F	950	475	1290x1510x2500	1417
1020	CRPXXGNB1K	1020	510	1440x1660x2500	1843
1200	CRPXXGNB1M	1200	600	1440x1660x2500	1843
1300	CRPXXGNB1N	1300	650	1440x1660x2500	1843

N.B.: The electric panel is supplied separately and must be assembled by the installing technician

*** Codes are issued by the pre-sales department.**

DIMENSIONS AND CONNECTION CENTRE DISTANCES



N1	Boiler flow
N2	Boiler return
N3	Equipment connection
N4	System filling and draining connection
N5	Connection for safety valve/s
N6	Bulb holders
N8	Control holder

Model	Dimensions												
	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
70	1030	855	415	415	54,5	750	700	1055	630	413	240	402	200-250
80	1030	855	415	415	54,5	750	700	1055	630	413	240	402	200-250
90	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
100	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
120	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
150	1080	905	440	440	54,5	800	750	1440	1000	513	475	452	200-250
200	1080	905	440	440	54,5	800	750	1440	1000	513	475	452	200-250
250	1180	1005	440	440	54,5	800	750	1690	1250	513	725	452	200-250
300	1180	1005	490	490	54,5	900	850	1690	1295	523	700	467	200-250
350	1180	1005	490	490	54,5	900	850	1940	1500	523	980	437	200-250
400	1190	1015	500	500	50	940	890	1872	1502	600	850	422	230-280
500	1380	1205	610	610	60	1160	1110	1950	1502	663	850	437	270-320
620	1380	1205	610	610	60	1160	1110	2240	1792	663	1150	427	270-320
750	1510	1335	675	675	60	1290	1240	2255	1753	704	1100	451	270-320
850	1510	1335	675	675	60	1290	1240	2255	1753	704	1100	451	270-320
950	1510	1335	675	675	60	1290	1240	2500	2003	704	1200	596	270-320
1020	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320
1200	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320
1300	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320

Model	Connections							
	Øb	ØC	N1	N2	N3	N4	N5	N6
	mm	mm	DN/in	DN/in	DN/in	in	in	in
70	130	200	50	50	1″	1″	-	1/2″
80	130	200	50	50	1″	1″	-	1/2″
90	130	200	50	50	1″	1″	-	1/2″
100	130	200	50	50	1″	1″	-	1/2″
120	130	200	50	50	1″	1″	-	1/2″
150	160	250	50	50	1″	1″	-	1/2″
200	160	250	50	50	1″	1″	-	1/2″
250	160	250	50	50	1″	1″	-	1/2″
300	180	250	65	65	1″	1″	-	1″1/2
350	180	250	65	65	1″	1″	-	1″1/2
400	225	250	80	80	1″	1″	1″1/4 (1)	1″1/2
500	225	300	80	80	1″	1″1/4	1″1/4	1″1/2
620	225	300	80	80	1″	1″1/4	1″1/4	1″1/2
750	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
850	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
950	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
1020	280	400	125	125	1″	1″1/4	1″1/2	1″1/2
1200	280	400	125	125	1″	1″1/4	1″1/2	1″1/2
1300	280	400	125	125	1″	1″1/4	1″1/2	1″1/2

(1) One connection only

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
	Thermoregulation control unit kit for two-stage burners, ErP II class (147x97x74 mm)	0KITCEEL04

Item	Description	Code
	Electric panel C30 - standard	0QUADELE24
	Electric panel PC30 - multi-zone	0QUADELE25

For other accessories, see page 195

RODI DUAL 1400-3500

STEEL FLOOR STANDING BOILER
FOR OPERATION WITH DIESEL AND GAS FORCED DRAF BURNERS (OPTIONAL)

- **Flue gas pipes boiler body in steel with reverse flame furnace**
- **Very thick steel flue gas pipes and with helical turbulators**
- **Front door with reversible opening**
- Maximum operating pressure: 6 bar, higher pressure values available upon request
- Control and management electric panel (to be ordered separately) in the standard version (C) with two-stage burner control, heating circulation pump control, recirculation pump control, external hot water storage tank pre-setting, operating and alarm signals; moreover the multi-zone version (PC) is equipped with a control for three zone pumps
- Rear fume chamber that can be opened for flue gas pipe inspection and cleaning

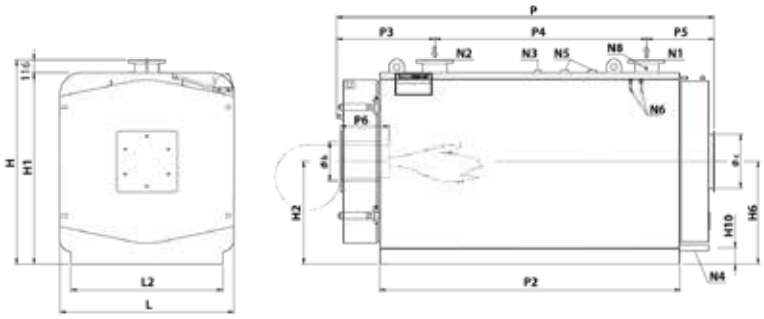
Available in the following models:

from 1400 to 3500

Model	Code	Power		L x H x D	Gross weight
		max (kW)	min (kW)	mm	kg
1400	CRPXXGNB1O	1400	700	1470x1746x2886	2600
1600	CRPXXGNB1Q	1600	800	1470x1746x2886	2600
1800	CRPXXGNB1S	1800	900	1470x1746x3096	2750
2000	CRPXXGNB2K	2000	1000	1600x1876x3220	3650
2400	CRPXXGNB2O	2400	1200	1600x1876x3480	3900
3000	CRPXXGNB3K	3000	1500	1870x2146x3480	5200
3500	CRPXXGNB3P	3500	1750	1870x2146x3935	5700

N.B.: The electric panel is supplied separately and must be assembled by the installing technician

DIMENSIONS AND CONNECTION CENTRE DISTANCES



N1	Boiler flow
N2	Boiler return
N3	Equipment connection
N4	System filling and draining connection
N5	Connection for safety valve/s
N6	Bulb holders
N8	Control holder

Model	Dimensions												
	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1400	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
1600	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
1800	1746	1630	880	880	150	1470	1270	3096	2510	771	1850	475	450-500
2000	1876	1760	945	945	150	1600	1400	3220	2510	903	1550	767	450-500
2400	1876	1760	945	945	150	1600	1400	3480	2770	903	1950	627	450-500
3000	2146	2030	1080	1080	150	1870	1670	3480	2770	903	2050	527	450-500
3500	2146	2030	1080	1080	150	1870	1670	3935	3225	903	2050	982	450-500

(1) One connection only

Model	Connections							
	Øb	ØC	N1	N2	N3	N4	N5	N6
	mm	mm	DN/in	DN/in	DN/in	in	in	in
1400	320	400	150	150	1"	1"1/4	1"1/2	1/2"
1600	320	400	150	150	1"	1"1/4	1"1/2	1/2"
1800	320	400	150	150	1"	1"1/4	1"1/2	1/2"
2000	360	500	200	200	1"	1"1/4	2"	1/2"
2400	360	500	200	200	1"	1"1/4	2"	1/2"
3000	400	550	200	200	1"	1"1/4	2"	1/2"
3500	400	550	200	200	1"	1"1/4	2"	1/2"

(1) One connection only

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
	Thermoregulation control unit kit for two-stage burners, ErP II class (147x97x74 mm)	0KITCEEL04

Item	Description	Code
	Electric panel C30 - standard	0QUADELE24
	Electric panel PC30 - multi-zone	0QUADELE25

For other accessories, see page 195

RODI DUAL HR 70-1300

STEEL FLOOR STANDING BOILER
FOR OPERATION WITH GAS FORCED DRAFT BURNERS (OPTIONAL)

- **Flue gas pipes boiler body in steel with reverse flame furnace**
- **Very thick steel flue gas pipes and with helical turbulators**
- **Patented heat recovery unit in extruded aluminium**
- **Front door with reversible opening**
- Maximum operating pressure: 6 bar, higher pressure values available upon request
- Control and management electric panel (to be ordered separately) in the standard version (C) with two-stage burner control, heating circulation pump control, recirculation pump control, external hot water storage tank pre-setting, operating and alarm signals; moreover the multi-zone version (PC) is equipped with a control for three zone pumps
- Rear fume chamber that can be opened for flue gas pipe inspection and cleaning

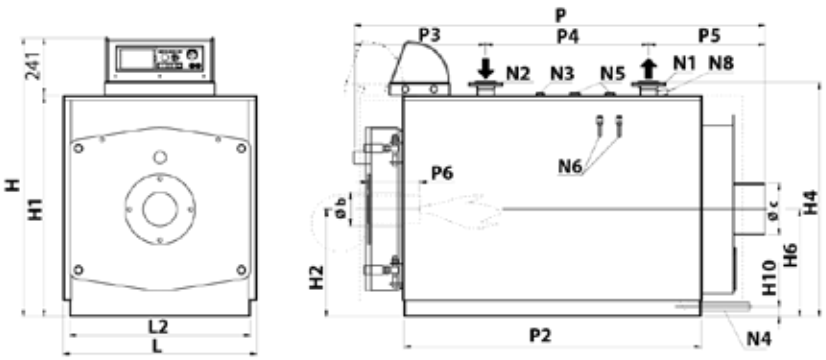
Available in the following models:

from 70 to 1300

Model	Code	Power		L x H x D	Gross weight
		max (kW)	min (kW)	mm	kg
HR 70	CRSXXGNB70	70	35	750x1030x1055	222
HR 80	CRSXXGNB80	80	40	750x1030x1055	222
HR 90	CRSXXGNB90	90	45	750x1030x1195	266
HR 100	CRSXXGNB1A	100	50	750x1030x1195	266
HR 120	CRSXXGNB1C	120	60	750x1030x1195	266
HR 150	CRSXXGNB1F	150	75	800x1080x1440	357
HR 200	CRSXXGNB2A	200	100	800x1080x1440	357
HR 250	CRSXXGNB2F	250	125	800x1180x1690	442
HR 300	CRSXXGNB3A	300	150	900x1180x1690	489
HR 350	CRSXXGNB3F	350	175	900x1180x1940	558
HR 400	CRSXXGNB4A	420	210	940x1190x1872	600
HR 500	CRSXXGNB5A	500	250	1160x1380x1950	871
HR 620	CRSXXGNB6C	620	310	1160x1380x2240	981
HR 750	CRSXXGNB7F	750	375	1290x1510x2255	1230
HR 850	CRSXXGNB8F	850	425	1290x1510x2255	1230
HR 950	CRSXXGNB9F	950	475	1290x1510x2500	1446
HR 1020	CRSXXGNB1K	1020	510	1440x1660x2500	1880
HR 1200	CRSXXGNB1M	1200	600	1440x1660x2500	1880
HR 1300	CRSXXGNB1N	1300	650	1440x1660x2500	1880

N.B.: The electric panel is supplied separately and must be assembled by the installing technician

DIMENSIONS AND CONNECTION CENTRE DISTANCES



N1	Boiler flow
N2	Boiler return
N3	Equipment connection
N4	System filling and draining connection
N5	Connection for safety valve/s
N6	Bulb holders
N8	Control holder

Model	Dimensions												
	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
HR 70	1030	855	415	415	54,5	750	700	1055	630	413	240	402	200-250
HR 80	1030	855	415	415	54,5	750	700	1055	630	413	240	402	200-250
HR 90	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
HR 100	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
HR 120	1030	855	415	415	54,5	750	700	1195	755	513	265	417	200-250
HR 150	1080	905	440	440	54,5	800	750	1440	1000	513	475	452	200-250
HR 200	1080	905	440	440	54,5	800	750	1440	1000	513	475	452	200-250
HR 250	1180	1005	440	440	54,5	800	750	1690	1250	513	725	452	200-250
HR 300	1180	1005	490	490	54,5	900	850	1690	1295	523	700	467	200-250
HR 350	1180	1005	490	490	54,5	900	850	1940	1500	523	980	437	200-250
HR 400	1190	1015	500	500	50	940	890	1872	1502	600	850	422	230-280
HR 500	1380	1205	610	610	60	1160	1110	1950	1502	663	850	437	270-320
HR 620	1380	1205	610	610	60	1160	1110	2240	1792	663	1150	427	270-320
HR 750	1510	1335	675	675	60	1290	1240	2255	1753	704	1100	451	270-320
HR 850	1510	1335	675	675	60	1290	1240	2255	1753	704	1100	451	270-320
HR 950	1510	1335	675	675	60	1290	1240	2500	2003	704	1200	596	270-320
HR 1020	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320
HR 1200	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320
HR 1300	1660	1485	750	750	60	1440	1390	2500	2003	704	1200	596	270-320

Model	Connections							
	Øb	ØC	N1	N2	N3	N4	N5	N6
	mm	mm	DN/in	DN/in	DN/in	in	in	in
HR 70	130	200	50	50	1″	1″	-	1/2″
HR 80	130	200	50	50	1″	1″	-	1/2″
HR 90	130	200	50	50	1″	1″	-	1/2″
HR 100	130	200	50	50	1″	1″	-	1/2″
HR 120	130	200	50	50	1″	1″	-	1/2″
HR 150	160	250	50	50	1″	1″	-	1/2″
HR 200	160	250	50	50	1″	1″	-	1/2″
HR 250	160	250	50	50	1″	1″	-	1/2″
HR 300	180	250	65	65	1″	1″	-	1″1/2
HR 350	180	250	65	65	1″	1″	-	1″1/2
HR 400	225	250	80	80	1″	1″	1″1/4 (1)	1″1/2
HR 500	225	300	80	80	1″	1″1/4	1″1/4	1″1/2
HR 620	225	300	80	80	1″	1″1/4	1″1/4	1″1/2
HR 750	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
HR 850	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
HR 950	280	350	100	100	1″	1″1/4	1″1/2	1″1/2
HR 1020	280	400	125	125	1″	1″1/4	1″1/2	1″1/2
HR 1200	280	400	125	125	1″	1″1/4	1″1/2	1″1/2
HR 1300	280	400	125	125	1″	1″1/4	1″1/2	1″1/2

(1) One connection only

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
	Thermoregulation control unit kit for two-stage burners, ErP II class (147x97x74 mm)	0KITCEEL04

Item	Description	Code
	Electric panel C30 - standard	0QUADELE24
	Electric panel PC30 - multi-zone	0QUADELE25

N.B.: One of the electric panels should be purchased separately and must be assembled by the installing technician.
For other accessories, see page 195

RODI DUAL HR 1400-3500

STEEL FLOOR STANDING BOILER
FOR OPERATION WITH GAS FORCED DRAFT BURNERS (OPTIONAL)

- **Flue gas pipes boiler body in steel with reverse flame furnace**
- **Very thick steel flue gas pipes and with helical turbulators**
- **Patented heat recovery unit in extruded aluminium**
- **Front door with reversible opening**
- Maximum operating pressure: 6 bar, higher pressure values available upon request
- Control and management electric panel (to be ordered separately) in the standard version (C) with two-stage burner control, heating circulation pump control, recirculation pump control, external hot water storage tank pre-setting, operating and alarm signals; moreover the multi-zone version (PC) is equipped with a control for three zone pumps
- Rear fume chamber that can be opened for flue gas pipe inspection and cleaning

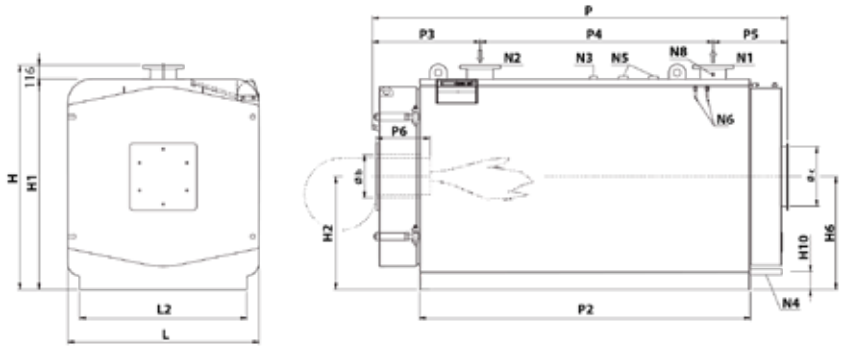
Available in the following models:

from 1400 to 3500

Model	Code	Power		L x H x D	Gross weight
		max (kW)	min (kW)	mm	kg
HR 1400	CRSXXGNB1O	1400	700	1470x1746x2886	2665
HR 1600	CRSXXGNB1Q	1600	800	1470x1746x2886	2665
HR 1800	CRSXXGNB1S	1800	900	1470x1746x3096	2815
HR 2000	CRSXXGNB2K	2000	1000	1600x1876x3220	3730
HR 2400	CRSXXGNB2O	2400	1200	1600x1876x3480	3980
HR 3000	CRSXXGNB3K	3000	1500	1870x2146x3480	5306
HR 3500	CRSXXGNB3P	3500	1750	1870x2146x3935	5806

N.B.: The electric panel is supplied separately and must be assembled by the installing technician

DIMENSIONS AND CONNECTION CENTRE DISTANCES



N1	Boiler flow
N2	Boiler return
N3	Equipment connection
N4	System filling and draining connection
N5	Connection for safety valve/s
N6	Bulb holders
N8	Control holder

Model	Dimensions												
	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
HR 1400	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
HR 1600	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400
HR 1800	1746	1630	880	880	150	1470	1270	3096	2510	771	1850	475	450-500
HR 2000	1876	1760	945	945	150	1600	1400	3220	2510	903	1550	767	450-500
HR 2400	1876	1760	945	945	150	1600	1400	3480	2770	903	1950	627	450-500
HR 3000	2146	2030	1080	1080	150	1870	1670	3480	2770	903	2050	527	450-500
HR 3500	2146	2030	1080	1080	150	1870	1670	3935	3225	903	2050	982	450-500

(1) One connection only

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
	Thermoregulation control unit kit for two-stage burners, ErP II class (147x97x74 mm)	0KITCEEL04

Item	Description	Code
	Electric panel C30 - standard	0QUADELE24
	Electric panel PC30 - multi-zone	0QUADELE25

For other accessories, see page 195

PYRÓS DUAL 1GTF 5

SINGLE-STAGE DIESEL FORCED DRAFT

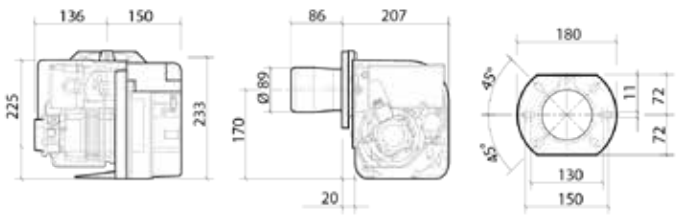
- **Air damper adjustable on the front side with graduated scale**
- **900 mm hoses supplied as standard**
- **Die-cast aluminium flange and gasket supplied as standard**
- **High noiselessness**
- Die-cast aluminium burner body
- ABS sound-proofing casing
- Connection to the boiler with 7-pin plug
- Combustion head with stainless steel ring

Model	Code	Heat output	Gross weight
		kW	Kg
1 GTF 5	BPBI00A550	47,2	13,50

Technical specifications	um	1 GTF 5
Fuel	-	diesel: viscosity= 1.4°E, Hi= 42.7 MJ/kg (10200 kcal/kg) T= 20°C
Heat output range	kW (kg/h)	33,2 ÷ 53,4 (2,8 ÷ 4,5)
Pre-adjustment heat input	kW	47,2
Nozzle: make / type	-	Delavan W, B - Steinen Q - Danfoss S
Nozzle	USgal/h	1,00
Nozzle: angle / cone	-	60°B
Diesel consumption (± 4%)*	kg/h	4
Diesel adjustment pressure*	bar	12
Air flow adjustment*	-	3,8
Combustion head adjustment*	-	Fixed
CO2 value*	%	12,5
Maximum counterpressure*	Pa	300
Combustion head diameter (B)	mm	89
Combustion head length (A)	mm	86
Pump pressure range	bar	8 ÷ 15
Pump vacuum (max.)	bar	-0,4
Power supply	-	single-phase 230 V - 50 Hz
Motor condenser	µF	4,5
Power absorption	kW	0,16
Motor current	A	0,7
Electric protection	-	IP 40

* IMPORTANT: The specified values and characteristics refer to factory calibration settings of the burner.

DIMENSIONS AND CONNECTION CENTRE DISTANCES



PYRÓS DUAL 1GTF 678

SINGLE-STAGE DIESEL FORCED DRAFT

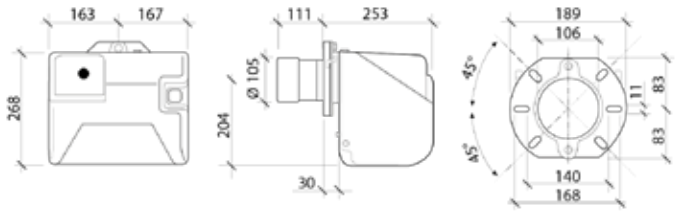
- **Two nozzles of 1,1 and 1,6 GPH are supplied as standard**
- **Air damper adjustable on the front side with graduated scale**
- **900 mm hoses supplied as standard**
- **Die-cast aluminium flange and gasket supplied as standard**
- **High noiselessness**
- Die-cast aluminium burner body
- ABS sound-proofing casing
- Connection to the boiler with 7-pin plug
- Combustion head with stainless steel ring

Model	Code	Heat output	Gross weight
		kW	Kg
1 GTF 678	BPBI00A678	68,6	19,00

Technical specifications	um	1 GTF 678
Fuel	-	diesel: viscosity= 1.4°E, Hi= 42.7 MJ/kg (10200 kcal/kg) T= 20°C
Heat output range	kW (kg/h)	55,7÷113 (4,7 ÷ 9,5)
Pre-adjustment heat input	kW	68,6
Nozzle: make / type	-	Delavan W, B - Steinen Q - Danfoss S
Nozzle	USgal/h	1,35
Nozzle: angle / cone	-	60°B
Diesel consumption (± 4%)*	kg/h	5,8
Diesel adjustment pressure*	bar	11
Air flow adjustment*	-	4,5
Combustion head adjustment*	-	2,5
CO2 value*	%	12,5
Maximum counterpressure*	Pa	115
Combustion head diameter (B)	mm	105
Combustion head length (A)	mm	111
Pump pressure range	bar	8 ÷ 15
Pump vacuum (max.)	bar	-0,4
Power supply	-	single-phase 230 V - 50 Hz
Motor condenser	µF	5
Power absorption	kW	0,160
Motor current	A	1,3
Electric protection	-	IP 40

* IMPORTANT: The specified values and characteristics refer to factory calibration settings of the burner.

DIMENSIONS AND CONNECTION CENTRE DISTANCES



fondital

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

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	um	Itaca	Itaca	Itaca
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% (30°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
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	-	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	122	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 specifications	um	Itaca	Itaca	Itaca
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% (30°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	122	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 specifications	um	Itaca	Itaca	Itaca
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% (30°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	122	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 specifications	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% (30°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 specifications	um	Formentera	Formentera
Model	-	CTN 24	CTN 28
Type	-	B11BS	B11BS
Nominal heat input (Qn)	kW	25,5	30,5
Reduced heat input (Qr)	kW	10,0	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat output (80-60°C) (Pr)	kW	8,5	10,8
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
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	25,5	30,5
DHW minimum heat input	kW	10,0	12,5
DHW nominal heat output (ΔT 30°C)	kW	23,1	27,4
DHW minimum heat output (ΔT 30°C)	kW	8,5	10,8
DHW circuit working pressure (min-max)	bar	0,5-6,0	0,5-6,0
Specific DHW flow ΔT=30K	l/min	11,2	13,5
DHW temperature range	°C	35-57	35-57
DHW maximum working temperature	°C	62	62
NOx emission class	-	2	2
Casing heat loss with burner on at nominal heat input	%	1,88	2,83
Casing heat loss with burner off	%	0,55	0,55
Chimney heat loss with burner on at nominal heat input	%	7,52	7,17
Air-flue ΔT at nominal heat input	°C	86	96
Flue gas flow at nominal heat input	g/s	20,73	21,7
CO2 at nominal heat input of heating (Natural gas)	%	4,9	5,5
CO2 at nominal heat input of heating (Propane)	%	5,6	6,5
CO2 at nominal heat input of heating (Butane gas)	%	5,8	6,5
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	86	86
Circulation pump power input	W	69	69
Electric protection rating	IP	X5D	X5D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	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% (30°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 specifications	um	Formentera	Formentera
Model	-	RBTN 24	RBTN 28
Type	-	B11BS	B11BS
Nominal heat input (Qn)	kW	25,5	30,5
Reduced heat input (Qr)	kW	10,0	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat output (80-60°C) (Pr)	kW	8,5	10,8
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
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
NOx emission class	-	2	2
Casing heat loss with burner on at nominal heat input	%	1,88	2,83
Casing heat loss with burner off	%	0,55	0,55
Chimney heat loss with burner on at nominal heat input	%	7,52	7,17
Air-flue ΔT at nominal heat input	°C	86	96
Flue gas flow at nominal heat input	g/s	20,73	21,7
CO2 at nominal heat input of heating (Natural gas)	%	4,9	5,5
CO2 at nominal heat input of heating (Propane)	%	5,6	6,5
CO2 at nominal heat input of heating (Butane gas)	%	5,8	6,5
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	86	86
Circulation pump power input	W	69	69
Electric protection rating	IP	X5D	X5D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	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% (30°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 specifications	um	Formentera	Formentera
Model	-	RTN 24	RTN 28
Type	-	B11BS	B11BS
Nominal heat input (Qn)	kW	25,5	30,5
Reduced heat input (Qr)	kW	10,0	12,5
Nominal heat output (80-60°C) (Pn)	kW	23,1	27,4
Reduced heat output (80-60°C) (Pr)	kW	8,5	10,8
Useful efficiency at nominal input (80-60°C)	%	90,6	90,0
Useful efficiency at 30% (30°C return)	%	89,4	87,8
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
NOx emission class	-	2	2
Casing heat loss with burner on at nominal heat input	%	1,88	2,83
Casing heat loss with burner off	%	0,55	0,55
Chimney heat loss with burner on at nominal heat input	%	7,52	7,17
Air-flue ΔT at nominal heat input	°C	86	96
Flue gas flow at nominal heat input	g/s	20,73	21,7
CO2 at nominal heat input of heating (Natural gas)	%	4,9	5,5
CO2 at nominal heat input of heating (Propane)	%	5,6	6,5
CO2 at nominal heat input of heating (Butane gas)	%	5,8	6,5
Power supply voltage/frequency	V/Hz	230/50	230/50
Maximum power consumption	W	86	86
Circulation pump power input	W	69	69
Electric protection rating	IP	X5D	X5D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	um	Antea
Model	-	CTN 24 AF
Type	-	B11BS
Nominal heat input (Qn)	kW	24,5
Reduced heat input (Qr)	kW	12,0
Nominal heat output (80-60°C) (Pn)	kW	22,1
Reduced heat output (80-60°C) (Pr)	kW	10,5
Useful efficiency at nominal input (80-60°C)	%	90,1
Useful efficiency at 30% (30°C return)	%	89,2
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	22,1
DHW minimum heat output (ΔT 30°C)	kW	10,5
DHW circuit working pressure (min-max)	bar	0,5-8,0
Specific DHW flow ΔT=25K	l/min	12,4
DHW temperature range	°C	35-50
DHW maximum working temperature	°C	58
NOx emission class	-	2
Casing heat loss with burner on at nominal heat input	%	3,92
Casing heat loss with burner off	%	0,48
Chimney heat loss with burner on at nominal heat input	%	5,98
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	73
Circulation pump power input	W	66
Electric protection rating	IP	X4D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	um	Antea
Model	-	CTFS 24 AF
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	11,0
Useful efficiency at nominal input (80-60°C)	%	93,1
Useful efficiency at 30% (30°C return)	%	90,5
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	12,5
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=25K	l/min	13,3
DHW temperature range	°C	35-50
DHW maximum working temperature	°C	58
NOx emission class	-	3
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	110
Flue gas flow at nominal heat input	g/s	14,18
CO2 at nominal heat input of heating (Natural gas)	%	7,2
CO2 at nominal heat input of heating (Propane)	%	6,8
CO2 at nominal heat input of heating (Butane gas)	%	8,6
Power supply voltage/frequency	V/Hz	230/50
Maximum power consumption	W	104
Circulation pump power input	W	66
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 specifications	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% (30°C return)	%	88,45
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=25K	l/min	12,7
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	73
Circulation pump power input	W	66
Electric protection rating	IP	X4D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	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% (30°C return)	%	88,45
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	73
Circulation pump power input	W	66
Electric protection rating	IP	X4D

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	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% (30°C return)	%	90,4
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	7
DHW nominal heat input	kW	25,5
DHW minimum heat input	kW	12,5
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=25K	l/min	13,3
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	104
Circulation pump power input	W	66
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 specifications	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% (30°C return)	%	90,4
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	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	104
Circulation pump power input	W	66
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 specifications	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% (30°C return)	%	90,4
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	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	104
Circulation pump power input	W	66
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 specifications	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% (30°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=25K	l/min	22,2
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 specifications	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% (30°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 specifications	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% (30°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 specifications	um	Maiorca	Maiorca	Maiorca
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% (30°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	132	145	145
Circulation pump power input	W	90	90	90
Electric protection rating	IP	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

TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

Technical specifications	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% (30°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	102	102	102	102	102	102
Circulation pump power input	W	66	66	66	66	66	66
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

SOLAR THERMAL PRODUCTS

COLLECTORS

SYSTEMS

SOLAR THERMAL UNITS

ACCESSORIES

HWF20 SOLAR COLLECTOR

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

- **High-efficiency aluminium absorber**
- **Copper piping**
- **Laser welding**
- **Aluminium tank-frame**
- **Rock wool insulation with a thickness of 40 mm**
- Tempered clear glass with low iron content
- Possibility to connect up to 8 collectors in series
- Suitable for installation in the vertical direction, with the short side on top

Data	um	HWF20
Total gross surface	m2	2,06
Absorber surface	m2	1,93
Absorbance	%	95
Emission	%	5
Glass transmittancy	%	91
Liquid content	litres	0,9
Maximum operating pressure	bar	10
Net weight	kg	35
Stagnation temperature	°C	201
Opening surface	m2	1,93
η0	-	0,753
α1	-	3,168
α2	-	0,012
IAM (K 50°)	-	0,94
External dimensions HC 25 (W x H x D)	mm	2020x1019x90
Code	-	PSHWF20000

Package includes: collectors.

Description	Code
Viton seals (10 pieces)	PSGUAHWF00
HWF 20 single collector in-roof installation kit	PSKITCOP06
HWF 20 supplementary collector in-roof installation kit	PSKITCOP07
Collector connection kit	PSKITHWF00
Joining kit for two collectors	PSKITHWF01

Description	Code
Single collector fixing kit, for installation on the roof	PSKMHWF201
Single collector fixing kit, brackets for roofs with wood-blocks	PSKMHWF202
Single collector fixing kit, brackets for roofs without wood-blocks	PSKMHWF203
Single collector fixing kit, installation on roof with an inclination of 35°	PSKMHWF204
Single collector fixing kit for roof covered with metal sheet	PSKMHWF205

VLC 25 SOLAR COLLECTOR

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

- **High-efficiency aluminium absorber**
- **Copper piping**
- **Laser welding**
- **Aluminium tank-frame**
- **Rock wool insulation with a thickness of 50 mm and 50 kg/cu.m density**
- **Suitable for installation in the vertical direction, with the short side on top**
- Tempered clear glass with low iron content
- Inlet/outlet with side connections at the top, size G1
- Single-resistance EPDM anti-UV seal
- Possibility to connect up to 6 collectors in series

Data	um	VLC25
Total gross surface	m2	2,57
Absorber surface	m2	2,16
Absorbance	%	94
Emission	%	5
Glass transmittancy	%	90,5
Liquid content	litres	1,6
Maximum operating pressure	bar	10
Net weight	kg	41,6
Stagnation temperature	°C	198
Opening surface	m2	2,29
η0	-	0,680
a1	-	3,012
a2	-	0,018
IAM (K 50°)	-	0,96
External dimensions HC 25 (W x H x D)	mm	2077 x 1238x 100
Code	-	PSVLC25000

Package includes: collectors and seals

Description	Code
VLC 25 single collector in-roof installation kit	PSKITCOP04
VLC 25 supplementary collector in-roof installation kit	PSKITCOP05
Single collector fixing kit, for installation on the roof	PSKMVL2501
Single collector fixing kit, brackets for roofs with wood-blocks	PSKMVL2502

Description	Code
Single collector fixing kit, brackets for roofs without wood-blocks	PSKMVL2503
Single collector fixing kit, installation on roof with an inclination of 35°	PSKMVL2504
Single collector fixing kit for roof covered with metal sheet	PSKMVL2505

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 specifications	um	HWF 200	PLUS HWF 200	HWF 300	VLC 200	VLC 300
Orientation	-	Vertical				
Collectors	no.	1	2	2	1	2
Model	-	HWF 20		VLC 25		
hot water storage tank	-	WHPS BZ 200 DS	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	B
hot water storage tank actual volume	l	196	196	291	196	291
Vbu	l	67	67	85	67	85
Losses in standby mode	W	51	51	63	51	63
Solar unit	-	2 ways				
Qnonsol (M)	kWh	961,21	695	737	830,11	642,25
Qnonsol (L)	kWh	2019,8	1454,56	1452,72	1786,95	1205,4
Qnonsol (XL)	kWh	3534,85	2762,41	2732,38	3241,57	2325,67
Qnonsol (XXL)	kWh	4689,42	3828,02	3746,27	4371,35	3267,13
Q circulation pump	W	45				
Qaux	kWh	90,7				
Qstand by	W	0,08				
Expansion vessel	-	ES 18				
Propylene glycol to be mixed	kg	10				
Code	-	PSPACKEV05	PSPACKEV07	PSPACKEV06	PSPACKEV02	PSPACKEV03

The solar kits do not include the retainers for roof installation, to be chosen among those specified for the different types of collectors, connection pipes and temperature probes. The solar control unit, if necessary, must be chosen among those indicated in the solar accessories in case you do not use a Fondital boiler set to manage the solar system.

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 specifications	um	HWF 200	VLC 200	HWF 300	VLC 300	HWF 500	VLC 500
Orientation	-	Vertical					
Collectors	no.	1	1	2	2	3	3
Model	-	HWF 20	VLC 25	HWF 20	VLC 25	HWF 20	VLC 25
hot water storage tank	-	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
hot water storage tank actual volume	l	196	196	273	273	475	475
Vbu	l	67	67	85	85	130	130
Losses in standby mode	W	67	67	85	85	112	112
Solar unit	-	2 ways					
Qnonsol (M)	kWh	1037,73	917,9	876	799	1061,94	929,2
Qnonsol (L)	kWh	2077,28	1854,12	1564,68	1332,76	1459,17	1305,07
Qnonsol (XL)	kWh	3581,14	3295,2	2821,42	2429,72	2385,32	2014,43
Qnonsol (XXL)	kWh	4731,11	4419,2	3863,98	3396,22	3262,71	2761,55
Q circulation pump	W	45					
Qaux	kWh	90,7					
Qstand by	W	0,08					
Expansion vessel	-	ES 12	ES 12	ES 18	ES 18	ES 25	ES 25
Additional tank	-	RS 5	RS 5	RS 5	RS 5	RS 8	RS 8
Propylene glycol to be mixed	kg	10					
Code	-	PSPACKEX06	PSPACKEX03	PSPACKEX07	PSPACKEX04	PSPACKEX08	PSPACKEX05

The solar kits do not include the retainers for roof installation, to be chosen among those specified for the different types of collectors, connection pipes and temperature probes. The solar control unit, if necessary, must be chosen among those indicated in the solar accessories in case you do not use a Fondital boiler set to manage the solar system.

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 specifications	-	HWF 200	HWF 300	HWF 500	VLC 200	VLC 300	VLC 500
Orientation	-	Vertical					
Collectors	no.	1	2	3	1	2	3
Model	-	HWF 20	HWF 20	HWF 20	VLC 25	VLC 25	VLC 25
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
hot water storage tank actual volume	l	196	273	475	196	273	475
Losses in standby mode	W	67	85	112	67	85	112
Solar unit	-	1 way					
Qnonsol (M)	kWh	910,57	800,53	1030,15	813,48	746,16	976,3
Qnonsol (L)	kWh	1895	1417,64	1344,72	1688	1208,15	1217,49
Qnonsol (XL)	kWh	3367,49	2620,11	2197,68	3091	2245,89	1856,34
Qnonsol (XXL)	kWh	4004,73	3637,97	3036,57	4199	3183,53	2562,6
Q circulation pump	W	45					
Qaux	kWh	90,7					
Qstand by	W	0,08					
Expansion vessel	-	ES 12	ES 18	ES 25	ES 12	ES 18	ES 25
Propylene glycol to be mixed	kg	10	10	10	10	10	10
Code	-	PSPACKEY06	PSPACKEY07	PSPACKEY08	PSPACKEY03	PSPACKEY04	PSPACKEY05

The solar kits do not include the retainers for roof installation, to be chosen among the systems specified for the different types of collectors, connection pipes and temperature probes. The solar control unit, if necessary, must be chosen among those indicated in the solar accessories in case you do not use a Fondital boiler set to manage the solar system (for combination boilers only).

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 181

SULPACK NATURAL PLUS

NATURAL CIRCULATION SOLAR KIT

- **Solar collectors**
- **Glazed hot water storage tank**
- **Fastening system for tilted roof**
- **Hydraulic connection accessories**
- Heat transfer fluid circuit safety valve
- Double magnesium anode
- Domestic cold water input check and safety valve

The Sulpack Natural Plus system can be combined to Fondital combination boilers with instantaneous production of domestic hot water, using the solar kit for instantaneous boilers. The Solar Kit allows you to bypass the boiler if water temperature from the solar tank is higher than 48 °C.

Technical specifications	um	150	200	300
Collectors	no.	1	1	2
Gross surface (single collector)	m²	2,11		
Liquid content (single collector)	litres	1,4		
Collector structure material	-	aluminium		
Glass	type	low-iron		
Thickness	mm	3,2		
Insulation	type	mineral wool		
Insulation thickness	mm	40		
Size (W x L x H) (single collector)	mm	1036x2037x90		
Overall empty weight (single collector)	kg	42		
Opening surface (single collector)	m²	1,92		
η0	-	0,702		
α1	-	3,930		
α2	-	0,007		
IAM	-	0,91		
Absorber				
Surface (single collector)	m²	1,91		
Material	type	aluminium		
Finishing	type	selective		
Tank				
hot water storage tank energy efficiency class	-	C	C	C
Dissipation S	-	68	72	97
Hot water storage	litres	152	198	282
Heat exchanger	-	jacket	jacket	jacket
Heat transfer fluid capacity	litres	8,5	12	18,8
Insulation thickness	mm	50	50	50
Maximum operating pressure	bar	6	6	6
Internal finishing	type	enamelling	enamelling	enamelling
Corrosion protection	type	Anodic (double anode - Mg)		
Empty weight	kg	72	88	110
Presetting for resistor	-	sì	sì	sì
Connections	-	G 3/4	G 3/4	G 3/4
Total amount of heat transfer fluid in the system	litres	11	14,5	22,5
Code	-	PSPACTER06	PSPACTER07	PSPACTER08

hot water storage tank resistor (Power)	w	750	1500	2500	3500
Voltage	v	230			
Features	-	Resistor with G1 1/4 threading and thermostat			
Code	-	PSRESELE04	PSRESELE05	PSRESELE06	PSRESELE07

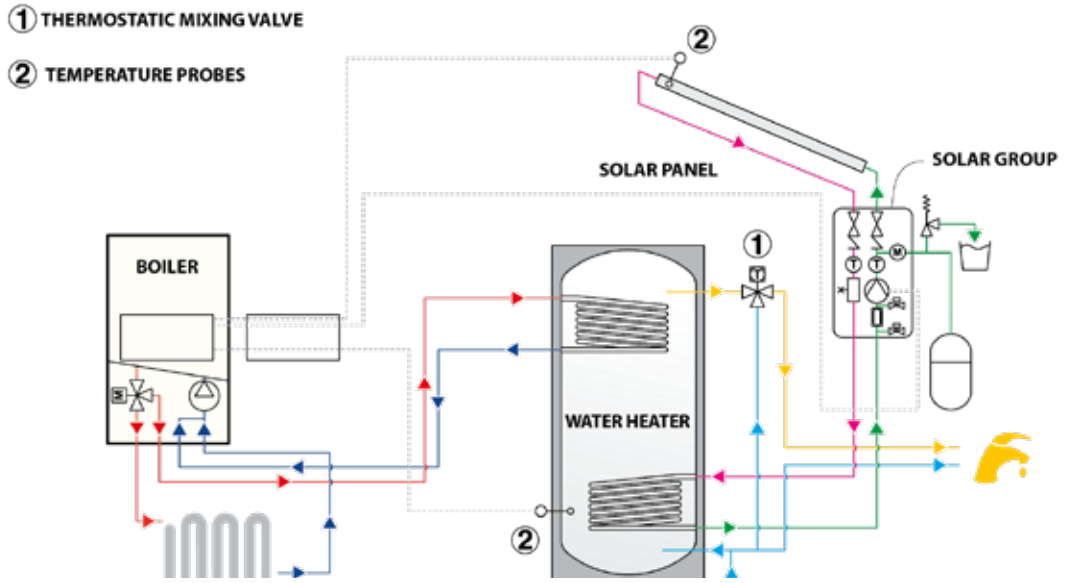
Description	Code
Supplementary kit for flat roofs, mod. 150	PSKITPAC00
Supplementary kit for flat roofs, mod. 200	PSKITPAC01

Description	Code
Supplementary kit for flat roofs, mod. 300	PSKITPAC02
Sulpack natural plus pressure-temperature safety valve	PSVALSIC00

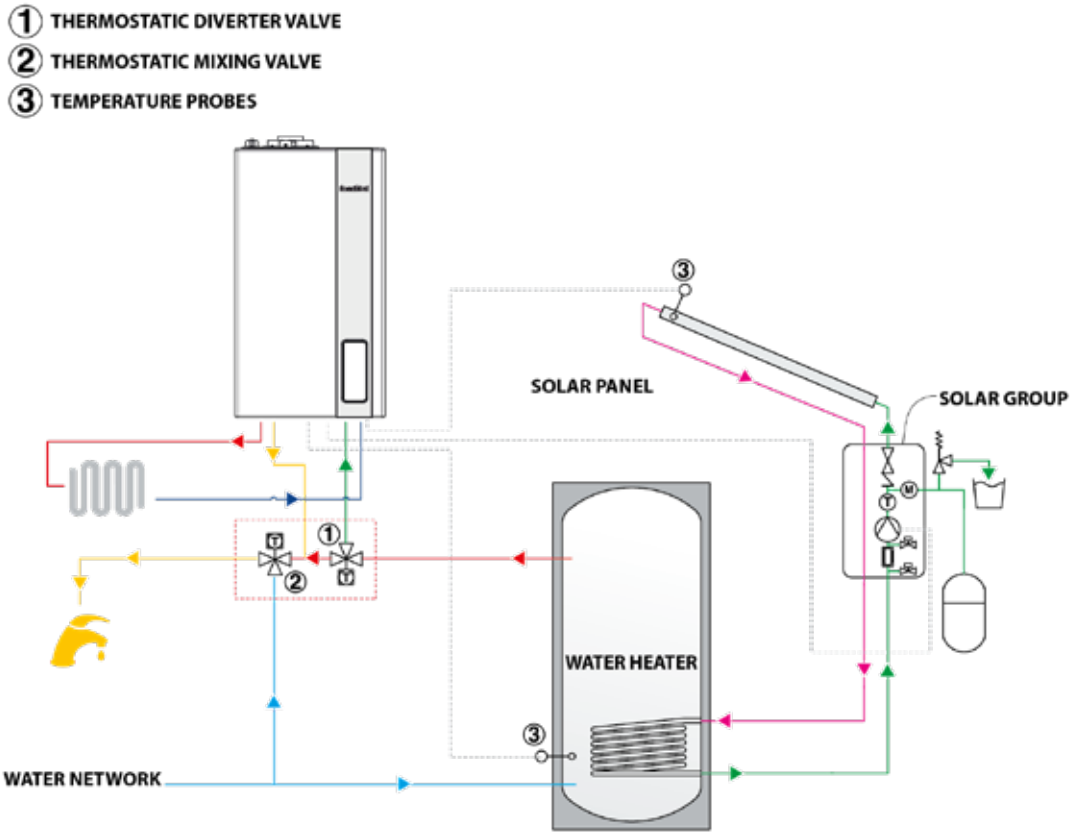
It can be combined with the following models: Itaca KC - Formentera KC - Formentera CTN - Antea KCAntea CTN -

EXAMPLES

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



Connection to combination instantaneous boiler
Sulpack Easy



MADEIRA SOLAR KRBS

FLOOR-STANDING CONDENSING BOILER WITH AN INTEGRATED DOUBLE COIL WATER TANK FOR THE PRODUCTION OF DHW
WITH HYDRAULIC UNIT AND ELECTRONICS FOR MANAGING A SOLAR THERMAL PLANT

- **Modulation ratio: 1:9**
- **300-litre hot water storage tank with double coil**
- **Available in the KRBS version with one direct zone, in the KRBS-V version with one direct and one mixed integrated zones, and in the KRBS-Z version with one direct and two mixed integrated zones**
- **Front door for immediate access to boiler**
- Thermosetting polymer-covered stainless steel heat exchanger
- Hydraulic connections on the sides
- Heating expansion vessel - 10 litres
- Thermoregulation with external probe (optional)
- 12-litre DHW expansion vessel
- 18-litre solar expansion vessel
- Additional 5-litre safety solar tank

For the technical data sheet, see page 56

Available in the following models:

12 24 28 32

MADEIRA SOLAR COMPACT KBS

FLOOR STANDING CONDENSING BOILER WITH INSTANT PRODUCTION OF DHW AND WITH SINGLE-COIL SOLAR DHW HOT WATER STORAGE TANK
WITH HYDRAULIC UNIT AND ELECTRONICS FOR MANAGING A SOLAR THERMAL PLANT

- **Modulation ratio: 1:9**
- **Hydraulic connections on the sides**
- **170-litre hot water storage tank with single coil**
- **DHW thermostatic mixing valve**
- **Front door for immediate access to boiler**
- **Available in the KBS version with one direct zone, in the KBS-V version with one direct and one mixed integrated zones, and in the KBS-Z version with one direct and two mixed integrated zones**
- Thermosetting polymer-covered stainless steel heat exchanger
- Thermoregulation with external probe (optional)
- Heating expansion vessel - 10 litres
- 12-litre DHW expansion vessel
- 12-litre solar expansion vessel

For the technical data sheet, see page 60

Available in the following models:

24 32

SOLAR PUMP GROUP RS1, ONLY RETURN

Flow regulator with 2-12 l/min flowmeter and 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 ½
- Wall-mounted, steel bracket included

SOLAR UNIT RS1		
Flow rate adjustment	l/min.	2 ÷ 12
Max. head	m	7,5
Max. power	w	45
Code		PSGRUP0011

SOLAR PUMP GROUP MRS3, FLOW AND RETURN

Flow regulator with 4-15 l/1' flowmeter and 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 ½
- Wall-mounted, steel bracket included

SOLAR UNIT MRS3		
Flow rate adjustment	l/min.	4 ÷ 15
Max. head	m	7,5
Max. power	w	45
Code		PSGRUP0012

SOLAR PUMP GROUP MRDP PLUS W, FLOW AND RETURN

Flow regulator with 20-70 l/min. flowmeter and integrated loading system

- 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 ½
- Wall-mounted, steel bracket included

SOLAR UNIT MRDP PLUS W		
Flow rate adjustment	l/min.	20 ÷ 70
Max. head	m	11
Max. power	w	140
Code		PSGRUP0010

CIRCULATION PUMPS

High-efficiency circulation pumps for solar plants

SOLAR CIRCULATION PUMP C6		
Maximum head	m	5,4
Max. power	w	49
Fan	no.	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		HCGEMMIS00

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

SOLAR PROTECTION LIQUID

Propylene glycol-based fluid suitable for use in systems with solar panels
Protective, anti-freeze and anti-corrosive

SOLAR PROTECTION LIQUID		10/170	20/170	30/170
Quantity	litres	10	20	30
Minimum operating temperature	°C	- 28		
Maximum operating temperature	°C	170	170	170
Code		PSPROSOL00	PSPROSOL01	PSPROSOL02

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

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

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 Formentera KC Antea 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 9 types of solar circuits.

- 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
- Can be set for 10 types of systems

SG3 SOLAR CONTROL UNIT

Control unit for managing 12 types of solar circuits.

- Load of a twin-coil hot water storage tank with heat being integrated from the boiler
- Management of two hot water storage tanks in cascade-type connection
- 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
- One output for modulating solar pump
- Two adjustable temperature differentials
- Hysteresis settings
- One pulse input for heat metering
- Pump anti-seize function
- Collector protection function
- Function for hot water storage tank thermal discharge during the night with collector
- Heating pump post-circulation function
- Wide LCD display showing system layout and probe current temperatures
- Charts showing the trend of the probe temperature reading in time
- Can be set for 13 types of systems

SOLAR ELECTRONIC CONTROL UNITS	SG2	SG3
Code	PSCENSO004	PSCENSO005

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

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 skay
- Magnesium protection anode
- DHW thermometer
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)

Available with 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
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02

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 skay
- Magnesium protection anode
- DHW thermometer
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)

Available with the following capacities (l):

from 200 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 200 DS	PSBOLLV064	67	196	67	C	1215	600	95
BNF 300 DS	PSBOLLV065	85	273	85	C	1615	600	130
BNF 500 DS	PSBOLLV066	112	475	130	C	1705	750	170

Model		BNF 200 DS	BNF 300 DS	BNF 500 DS
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Auxiliary coil area	m2	0,5	0,8	0,9
Solar coil area	m2	0,7	1,2	1,8
Coil power (ΔT 35 K)	kW	12	19	23
Solar 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
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02

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 skay
- 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 with 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
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

Model		BA 200 SS	BA 300 SS	BA 500 SS
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Coil area	m2	1,5	1,8	2,2
Coil power (ΔT 35 K)	kW	36	44	55
Tilting height	mm	1375	1735	1900
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
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02
	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 skay
- Magnesium protection anode for up to 1000 litre capacity
- Front inspection flange
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)

Available with 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
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02
	Resistor with flange and single-phase power supply - 200/300/500 - 3kW	PSRESELE13

WHPF BM

HOT WATER STORAGE TANK WITH INTEGRATED THREE-WAY VALVE, TO BE COMBINED WITH HEATING-ONLY BOILERS FOR THE PRODUCTION OF DOMESTIC HOT WATER

- **Easy installation**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Equipped with motorised three-way valve**
- Magnesium protection anode for DHW tank
- External case in white metal sheet
- Fitting trim in white ABS
- Internal coating: porcelain-glass
- External insulation in high density ecological polyurethane foam
- Regulation thermostat

Available with the following capacities (l):

120 150 200

Model	Code	Volume	Coil power	Overall height	Outer diameter	Gross weight
		litres	kW	mm	mm	kg
BM 120	AVBMXX0120	120	29	1055	560	72,4
BM 150	AVBMXX0150	150	38	1205	560	82,8
BM 200	AVBMXX0200	200	49	1480	560	94,0

Item	Description	Code
	5 litre expansion vessel kit	0KVASEBO00

WHPS PU S

SINGLE-COIL STEEL PUFFER FOR HEATING SYSTEMS, WITH OUTER COATING IN WHITE SKAY

- **Easy installation**
- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skay
- Control probes and heating circuit connections

Available with the following capacities (l):

1000 2000 3000

Model	Code	Total volume	Overall height	Outer diameter	Net weight
		litres	mm	mm	kg
PU 1000 S	PSBOLLV014	1000	2080	990	180,00
PU 2000 S	PSBOLLV015	2000	2195	1400	330,00
PU 3000 S	PSBOLLV016	3000	2750	1450	430,00

Model		PU 1000 S	PU 2000 S	PU 3000 S
Nominal volume	litres	1000	2000	3000
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Coil area	m2	3	4,2	4,2
Coil power (80/60)	kW	90	120	120
Tilting height	mm	2280	2710	2985
Insulation thickness	mm	100	100	100

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 skay
- 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 with 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
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

Model		BA 200 DS	BA 300 DS	BA 500 DS
Nominal volume	litres	200	300	500
Maximum working pressure	bar	10		
Maximum working temperature	°C	95		
Auxiliary coil area	m2	0,5	1,1	1,3
Solar coil area	m2	1,5	1,8	2,2
Coil power (ΔT 35 K)	kW	12	26	33
Solar coil power (ΔT 35 K)	kW	36	44	55
Tilting height	mm	1375	1735	1900
Insulation thickness	mm	50	50	50

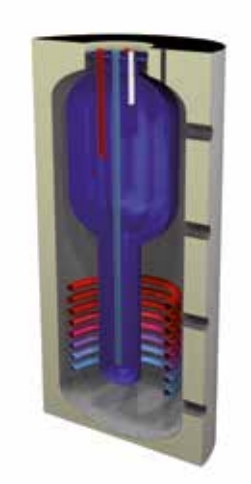
Item	Description	Code
	Single electrode electronic anode - 200/300/500/1000	0ANOELET01
	Thermostat and thermometer kit	0KTERMTE00

Item	Description	Code
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02
	Resistor with flange and single-phase power supply - 200/300/500 - 3kW	PSRESELE13

WHPS DX

SINGLE-COIL STEEL STORAGE TANK FOR THE PRODUCTION OF HEATING HOT WATER AND DOMESTIC HOT WATER, WITH PORCELAIN-GLASS TANK-IN-TANK

- **Easy installation**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Upper DHW inspection flange
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skay
- Magnesium protection anode for DHW tank
- DHW control probe
- DHW recirculation, 3 probes for heating, heating water thermometer, 9 connections for different uses (thread G 1 1/2)
- Auxiliary resistor (thread G 1 1/2)



Available with the following capacities (l):

500 1000 1500

Model	Code	Dissipation S	Hot water storage	Energy efficiency class	Overall height	Outer diameter	Gross weight
		w	litres		mm	mm	kg
DX 500/180	PSBOLLV023	69	318/170	B	1700	850	175,00
DX 1000/250	PSBOLLV007	-	-	-	2030	990	250,00
DX 1500/300	PSBOLLV008	-	-	-	2070	1200	315,00

Model		DX 500/180	DX 1000/250	DX 1500/300
Nominal volume	litres	500	1000	1500
Maximum working pressure	bar	6		
Maximum working temperature	°C	95		
Coil area	m2	2,5	3	3,5
Coil power (ΔT 35 K)	kW	75	90	105
Tilting height	mm	1820	2180	2300
Insulation thickness	mm	100	100	100

Item	Description	Code
	Resistor with G1 ½ threading and single-/three-phase power supply - 3kW (while stocks last)	PSRESELE02

FLUE FITTINGS AND ACCESSORIES

FLUE FITTINGS

ACCESSORIES

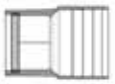
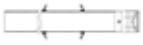
DISCHARGE FOR CONDENSING BOILERS TYPE B23

INTAKE AND VENT PIPES Ø 80

No.	Item	Description	Code
09		Splitter kit Ø80+80	0KITSDOP00
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
09		Splitter kit Ø80+80	0KITSDOP00
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
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

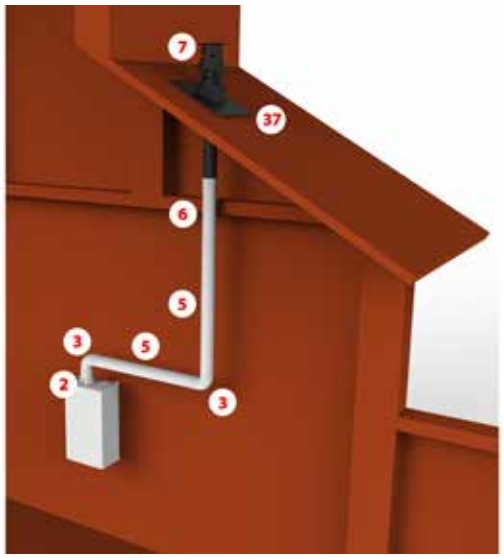
DISCHARGE FOR CONDENSING BOILERS TYPE C13

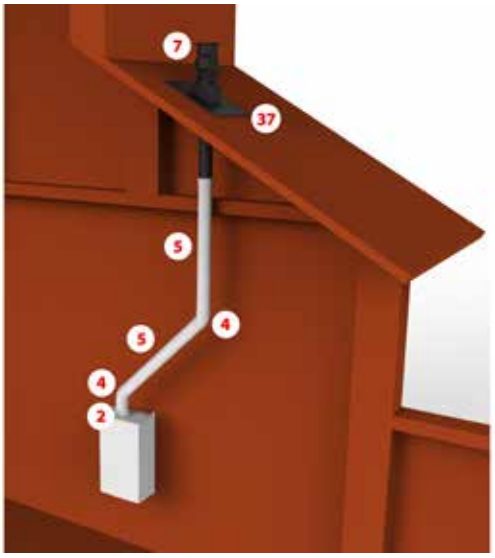
INTAKE AND VENT PIPES Ø 60/100

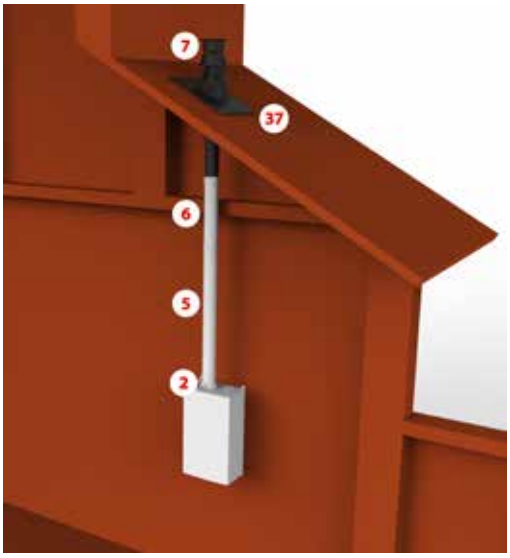
No.	Item	Description	Code
01		Coaxial kit Ø 60/100 length 75cm	0CONDASP00
02		Coaxial fitting kit Ø60/100	0KITATCO00
03		90° elbow M/F coaxial Ø60/100	0CURVAXX05
05		Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
06		Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03

DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 60/100



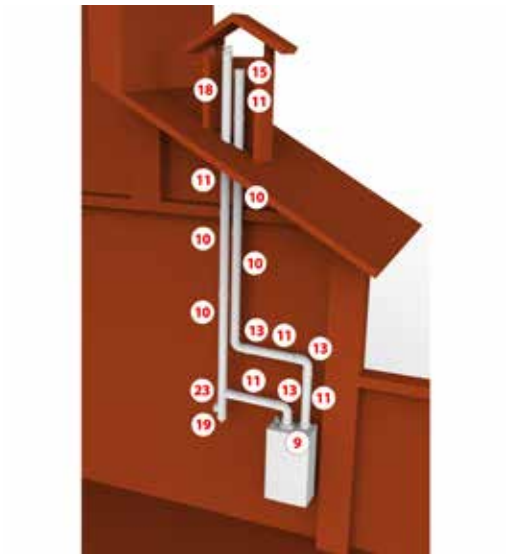




No.	Item	Description	Code
02		Coaxial fitting kit Ø60/100	0KITATCO00
03		90° elbow M/F coaxial Ø60/100	0CURVAXX05
04		45° elbow M/F coaxial Ø60/100	0CURVAXX04
05		Coaxial extension M/F Ø60/100 L=1m	0PROLUNG02
06		Coaxial extension M/F Ø60/100 L=0.5m	0PROLUNG03
07		Coaxial flue kit Ø60/100	0KCAMASP00
37		Tile for tilted roof (flue output)	0TEGTEIN00

DISCHARGE FOR CONDENSING BOILERS TYPE C33

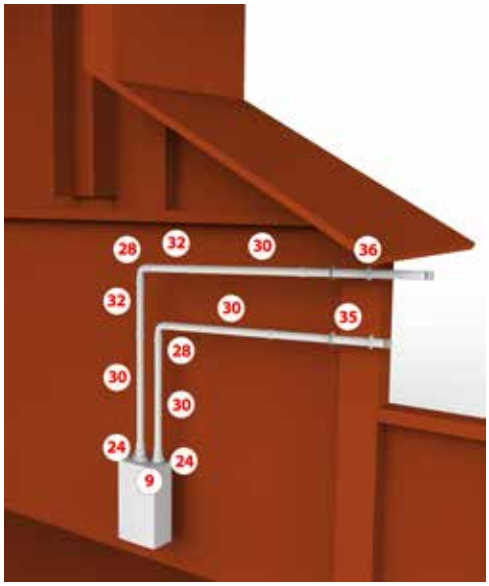
INTAKE AND VENT PIPES Ø 80

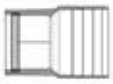
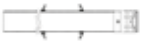


No.	Item	Description	Code
09		Splitter kit Ø80+80	0KITSDOP00
10		Extension M/F Ø80 L=1 m	0PROLUNG00
11		Extension M/F Ø80 L=0.5 m	0PROLUNG01
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
17		Flue gas intake/vent chimney Ø80+80 H=138.4cm	0CAMIASP00
18		Flue vent terminal Ø80 L=1m	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

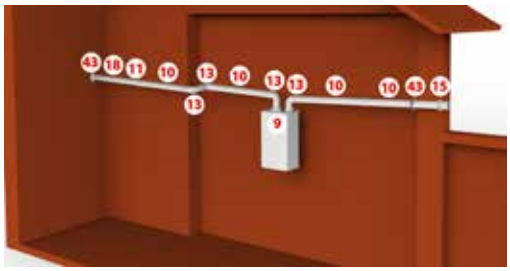
INTAKE AND VENT PIPES Ø 60

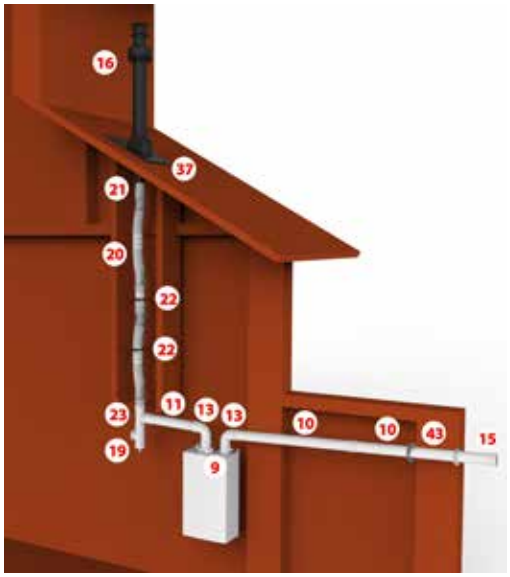


No.	Item	Description	Code
09		Splitter kit Ø80+80	0KITSDOP00
17		Flue gas intake/vent chimney Ø80+80 H=138.4cm	0CAMIASP00
24		Adapter Ø80/60	0RIDUZIO19
25		Adapter M/F Ø 60-80 M/F	0RIDUZIO10
28		90° elbow Ø60	0CURVAXX16
30		Extension M/F Ø60 L=1m	0PROLUNG16
31		Extension M/F Ø60 L=2 m	0PROLUNG17
32		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

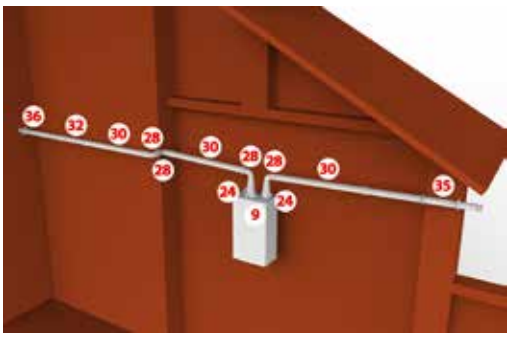


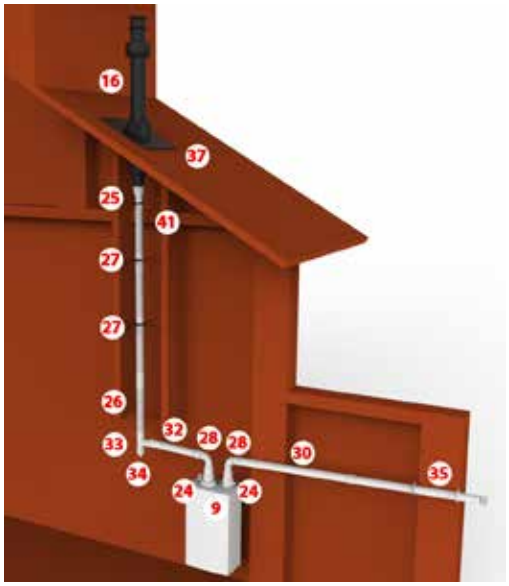


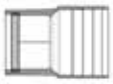
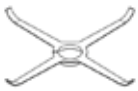
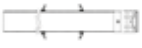
No.	Item	Description	Code
09		Splitter kit Ø80+80	0KITSDOP00
10		Extension M/F Ø80 L=1 m	0PROLUNG00
11		Extension M/F Ø80 L=0.5 m	0PROLUNG01
13		90° elbow M/F Ø80	0CURVAXX02
15		Suction opening Ø80	0GRIGASP01
16		Flue vent chimney Ø80 H=138cm	0CAMISCA00
18		Flue vent terminal Ø80 L=1m	0TERMSCA00
19		Tee kit for visual inspection and collecting condensate Ø80	0KITRACT00
20		Kit of adapters for flexible hose Ø80	0KADAFLE00
21		Seal for flexible hose Ø80	0GUATRLA00
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
09		Splitter kit Ø80+80	0KITSDOP00
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

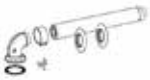
DISCHARGE FOR STANDARD BOILERS TYPE B22

INTAKE AND VENT PIPES Ø 80

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

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

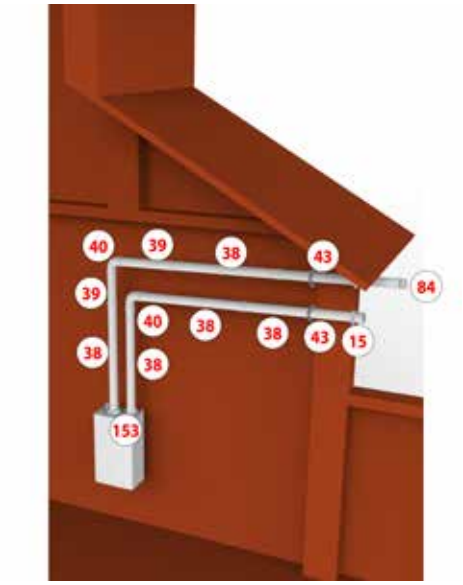
DISCHARGE FOR STANDARD BOILERS TYPE C32

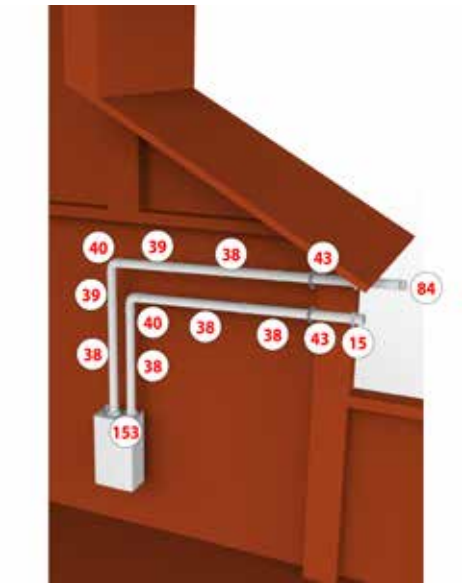
INTAKE AND VENT PIPES Ø 60/100

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

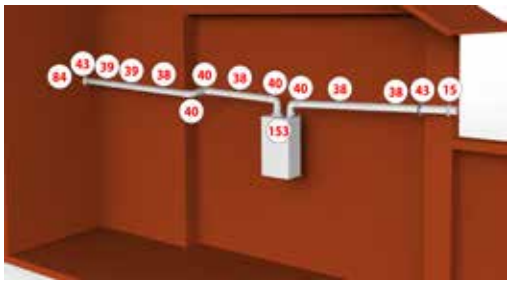




No.	Item	Description	Code
-		Coaxial flue kit	0SDOPPIA13
-		Extension Ø80 L= 1m	0CONDOTT00
-		Elbow 90° Ø80 broad beam	0CURRALA00
-		Upwind terminal Ø80 stainless steel	0TERCOIN00
15		Suction opening Ø80	0GRIGASP01
37		Tile for tilted roof (flue output)	0TEGTEIN00
39		Ø80 pipe L= 0.5m (for TFS boilers)	0CONDOTT01
40B		90° elbow with inspection Ø80 narrow radius (for TFS boilers)	0CURVAXX03
43		Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
88		Vertical stub pipe with condensate trap Ø80 L=0.135m (for TFS boilers)	0TRONVER00
149		Chimney for splitted pipes Ø80/80 (for boilers TFS)	0CAMCOSD00

DISCHARGE FOR STANDARD BOILERS TYPE C52

INTAKE AND VENT PIPES Ø 80



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

CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 60/100

Item	Description	Code
	Coaxial kit Ø 60/100 length 75cm	0CONDASP00
	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

Item	Description	Code
	Coaxial flue kit Ø60/100	0KCAMASP00
	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

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

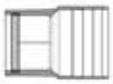
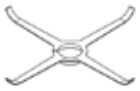
Item	Description	Code
	Coaxial M-F 45° elbow D. 80/125	0CURVAXX06
	Coaxial M-F 90° elbow D. 80/125	0CURVAXX07
	90° elbow for visual inspection D. 80/125	0CURVISP05
	Extension for visual inspection d80/125	0TUBISPV05
	Coaxial flue gases starting kit 125/80 (for boiler Itaca CH KR)	0ATTCOFL01
	80/125 pipework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

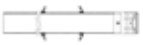
CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 100/150

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

Item	Description	Code
	100/150 Tee fitting M/M/F cap	0RACTTAP00
	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

SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 60-60

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

Item	Description	Code
	Extension M/F Ø60 L=1m	0PROLUNG16
	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

SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 80-80

Item	Description	Code
	Splitter kit Ø80+80	0KITSDOP00
	Extension M/F Ø80 L=1 m	0PROLUNG00
	Extension M/F Ø80 L=0.5 m	0PROLUNG01
	Telescopic extension M/F Ø80 (0.34-0.45m)	0PROLTEL01
	90° elbow M/F Ø80	0CURVAXX02
	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
	Flue vent terminal Ø80 L=1m	0TERMSCA00
	Tee kit for visual inspection and collecting condensate Ø80	0KITRACT00

Item	Description	Code
	Flexible pipe M/F Ø80 (20m roll)	0TUBOFLE06
	Kit of adapters for flexible hose Ø80	0KADAFLE00
	Seal for flexible hose Ø80	0GUATRLA00
	Centring element for flexible hose Ø80	0CENTFLE00
	Tee M/M/F Ø80	0RACCORT00
	Wall rosette in silicone, ID Ø80 OD Ø170	0ROSPASI00
	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

SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 100-100

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

Item	Description	Code
	Condensate drain trap with vertical fitting	0SIFCOND01
	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

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

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

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	0COLLFUM02
	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.

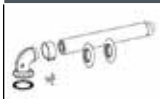
FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 250

Item	Description	Code
	Flue gas pipe for thermal module Ø 250	0COLLFUM04
	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

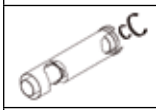
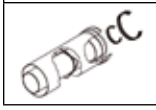
SPLIT FLUE FITTINGS FOR STANDARD BOILERS Ø 80-80

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
	Vertical stub pipe with condensate trap Ø80 L=0.135m (for TFS boilers)	0TRONVER00
	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 Bali RTFS E	0SDOPPIA05

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	Formentera KC	Formentera KR	Formentera KRB	Giava KRB	Itaca CH KR	Itaca KB	Itaca KC	Itaca KR	Itaca KRB	Madeira Solar Compact KBS	Madeira Solar KRBS	Tenerife KC	Code
	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
	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

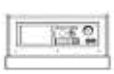
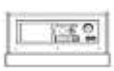
ACCESSORIES

THERMOREGULATION AND ELECTRONIC

Item	Description	Antea CTFS	Antea CTFS 40	Antea CTFS AF	Antea CTN	Antea CTN AF	Antea RBTFS	Antea RBTFS 40	Antea RBTN	Antea RTFS	Antea RTFS 40	Bali RTFS E	Bali RTN PVE	Bali RTN E	Bali RTN T	Elba Dual	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
	Remote control, ErP V class (118x85x32 mm)	●	●	●	●	●	●	●	●	●	●						0CREMOTO04
	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
	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
	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
	Thermoregulation control unit kit, ErP II class (143x97x74 mm)											●	●			●	0KITCEEL02
	External hot water storage tank kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual											●	●	●		●	0KITBEST06

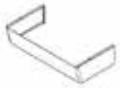
ACCESSORIES

THERMOREGULATION AND ELECTRONIC

Item	Description	Formentera CTFS	Formentera CTN	Formentera RBTFS	Formentera RBTN	Formentera RTFS	Formentera RTN	Itaca CTFS	Itaca RBTFS	Itaca RTFS	Maiorca CTFS	Minorca CTFS	Rodi Dual 1400-3500	Rodi Dual 70-1300	Rodi Dual HR 1400-3500	Rodi Dual HR 70-1300	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
	Remote control, ErP V class (118x85x32 mm)	●	●	●	●	●	●	●	●	●	●	●					0CREMOTO04
	Thermoregulation control unit kit for two-stage burners, ErP II class (147x97x74 mm)												●	●	●	●	0KITCEEL04
	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
	Outdoor temperature probe (60x45x31 mm)	●	●	●	●	●	●	●	●	●	●	●					0SONDAES01
	Flow probe for low temperature zone for climate control unit												●	●	●	●	0SONDARI01
	Electromechanical ambient thermostat, ErP I class (71x71x40 mm)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	0TERAMEL00
	Electric panel C30 - standard												●	●	●	●	0QUADELE24
	Electric panel PC30 - multi-zone												●	●	●	●	0QUADELE25

ACCESSORIES

OUTDOOR INSTALLATION PARTIALLY PROTECTED AND OPTIONAL ACCESSORIES

Item	Description	Antea KC	Antea KR	Antea KRB	Formentera KC	Formentera KR	Formentera KRB	Itaca KB	Itaca KC	Itaca KR	Itaca KRB	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	●	●	●								●	0COPETUB00
	Pipes and taps cover				●	●	●		●	●	●		0COPETUB03
	Pipes and taps cover							●					0COPETUB05
	Basic compact install. metal template	●	●	●									0DIMMECO10
	Metal fixing template				●	●	●		●	●	●		0DIMMECO11
	Metal template for KB boiler							●					0DIMMECO12
	Wall spacing kit	●	●	●	●	●	●		●	●	●	●	0DISTANZ00
	Wall mounting bracket for compact boiler	●	●	●									0KSTASOS00

ACCESSORIES

OUTDOOR INSTALLATION PARTIALLY PROTECTED AND OPTIONAL ACCESSORIES

Item	Description	Antea CTFS	Antea CTFS 40	Antea CTFS AF	Antea CTN	Antea CTN AF	Antea RBTFS	Antea RBTFS 40	Antea RBTN	Antea RTFS	Antea RTFS 40	Formentera CTFS	Formentera CTN	Formentera RBTFS	Formentera RBTN	Formentera RTFS	Formentera RTN	Itaca CTFS	Itaca RBTFS	Itaca RTFS	Maiorca CTFS	Minorca CTFS	Code
	Coaxial air intake/flue gas venting connection for B22 type installations											●						●					0ATTCOVE04
	Cover and anti-freeze protection kit											●		●		●		●	●	●			0KITCOPE03
	External protection kit for standard boilers											●		●		●		●	●	●			0KITCOPE04
	Compact wall pipe cover	●		●	●	●	●	●	●	●	●											●	0COPETUB00
	Pipes and taps cover											●	●	●	●	●	●	●	●	●	●		0COPETUB03
	Basic compact install. metal template	●	●	●	●	●	●	●	●	●	●											●	0DIMMECO10
	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	Formentera KC	Formentera KR	Formentera KRB	Giava KRB	Itaca CH KR	Itaca KB	Itaca KC	Itaca KR	Itaca KRB	Madeira Solar Compact KBS	Madeira Solar KRBS	Tenerife KC	Code
	Magnetic dirt separator filter	●	●	●	●	●	●	●		●	●	●	●	●	●	●	0AFILDEF00
	Condensate neutralizer kit (Pmax 350 kw)								●								0FILNECO01
	Condensate neutralizer kit (Pmax 85 kw)								●								0FILNECO03
	Tap kit with filter KR-KB-RT		●			●				●		●					0KITRUBI04
	Tap kit with filter KC-KRB-CT-RBT	●		●	●		●				●		●			●	0KITRUBI05
	Giava recirculation optional kit							●									0KRICIRC00
	DHW recirculation kit														●		0KRICIRC01
	Recirculation kit									●							0KRICIRC02
	Filter refill Pmax 350kW								●								0RICAFIL01
	Filter refill								●								0RICAFIL03
	Kit for connection to solar plant	●			●						●					●	0KITSOLC07
	Basic hydraulic kit						●						●				0KITIDBA17
	Gas and water cock kit	●	●	●	●	●	●			●	●	●	●			●	0KITRUBI01
	Basic hydraulic kit	●	●		●	●					●	●				●	0KITIDBA16
	Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m	●	●	●	●					●	●	●	●			●	0KITIDTR00

ACCESSORIES

HYDRAULIC

Item	Description	Antea KC	Antea KR	Antea KRB	Formentera KC	Formentera KR	Formentera KRB	Giava KRB	Itaca CH KR	Itaca KB	Itaca KC	Itaca KR	Itaca KRB	Madeira Solar Compact KBS	Madeira Solar KRBS	Tenerife KC	Code
	Kit for connection to solar plant	●			●						●					●	0KITSOLC07
	Basic hydraulic kit						●						●				0KITIDBA17
	Gas and water cock kit	●	●	●	●	●	●			●	●	●	●			●	0KITRUBI01
	Basic hydraulic kit	●	●		●	●					●	●				●	0KITIDBA16
	Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m	●	●	●	●					●	●	●	●			●	0KITIDTR00

ACCESSORIES

HYDRAULIC

Item	Description	Antea CTFS	Antea CTFS 40	Antea CTFS AF	Antea CTN	Antea CTN AF	Antea RBTFS	Antea RBTFS 40	Antea RBTN	Antea RTFS	Antea RTFS 40	Bali RTFS E	Bali RTN PVE	Bali RTN E	Bali RTN T	Elba Dual	Code
	Flow - return cold water 90° taps kit	●	●	●	●	●											0KITIDBA11
	Tap kit with filter KR-KB-RT									●	●						0KITRUBI04
	Tap kit with filter KC-KRB-CT-RBT	●	●	●	●	●	●	●	●								0KITRUBI05
	Basic hydraulic kit	●		●	●	●		●	●		●						0KITIDBA29
	Plus hydr. kit for basic compact unit	●		●	●	●		●	●		●						0KITIDBA14
	Kit for connection to solar plant	●	●	●	●	●											0KITSOLC07
	Gas and water cock kit	●	●	●	●	●	●	●	●	●	●						0KITRUBI01
	Basic hydraulic kit	●		●	●	●				●	●						0KITIDBA16
	Ext. heat. kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual											●	●	●	●	●	0KITPOVA03
	Pump and vessel kit for Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dualfor hot water storage tank											●		●		●	0KITPOVA04
	Hydraulic kit with pump and expansion tank - Bali RTN E - Bali RTN PVE - Bali RTFS E - Elba Dual											●		●		●	0KITPOVA05
	Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m	●	●	●		●	●	●	●	●	●						0KITIDTR00

ACCESSORIES

HYDRAULIC

Item	Description	Formentera CTFS	Formentera CTN	Formentera RBTFS	Formentera RBTN	Formentera RTFS	Formentera RTN	Itaca CTFS	Itaca RBTFS	Itaca RTFS	Maiorca CTFS	Minorca CTFS	Code
	Flow - return cold water 90° taps kit	●	●					●			●	●	0KITIDBA11
	Tap kit with filter KR-KB-RT					●	●			●			0KITRUBI04
	Tap kit with filter KC-KRB-CT-RBT	●	●	●	●			●	●		●		0KITRUBI05
	Basic hydraulic kit											●	0KITIDBA29
	Plus hydr. kit for basic compact unit											●	0KITIDBA14
	Kit for connection to solar plant	●	●					●			●	●	0KITSOLC07
	Basic hydraulic kit			●	●				●				0KITIDBA17
	Gas and water cock kit	●	●	●	●	●	●	●	●	●	●	●	0KITRUBI01
	Basic hydraulic kit		●			●	●	●		●	●		0KITIDBA16

The manufacturer reserves the right to make any modifications deemed necessary without prior notification.

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