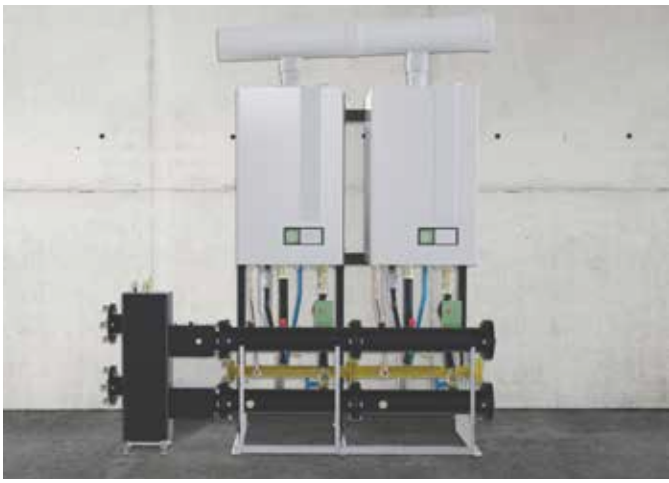
fondital

BE INNOVATIVE



# GENERAL CATALOGUE

2025

EN


fondital
BE INNOVATIVE

fondital

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.

Plant C1

Plant C2

Plant V1

Plant V2

# WHY CHOOSE FONDITAL

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


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


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

# FONDITAL WORLDWIDE

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


Active markets



fondital

# CONTENTS

## SOLAR THERMAL PRODUCTS PAGE 119



## HOT WATER STORAGE TANKS PAGE 135

# DISCOVER THE NEW
# FONDITAL APP!


Spot, the smart thermostat, allows you to set and monitor your boiler and heating system from wherever you are through a wi-fi connection.

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

SPOT
smart thermostat

The app MySpot is available for free for Apple and Android devices

Download on the App Store

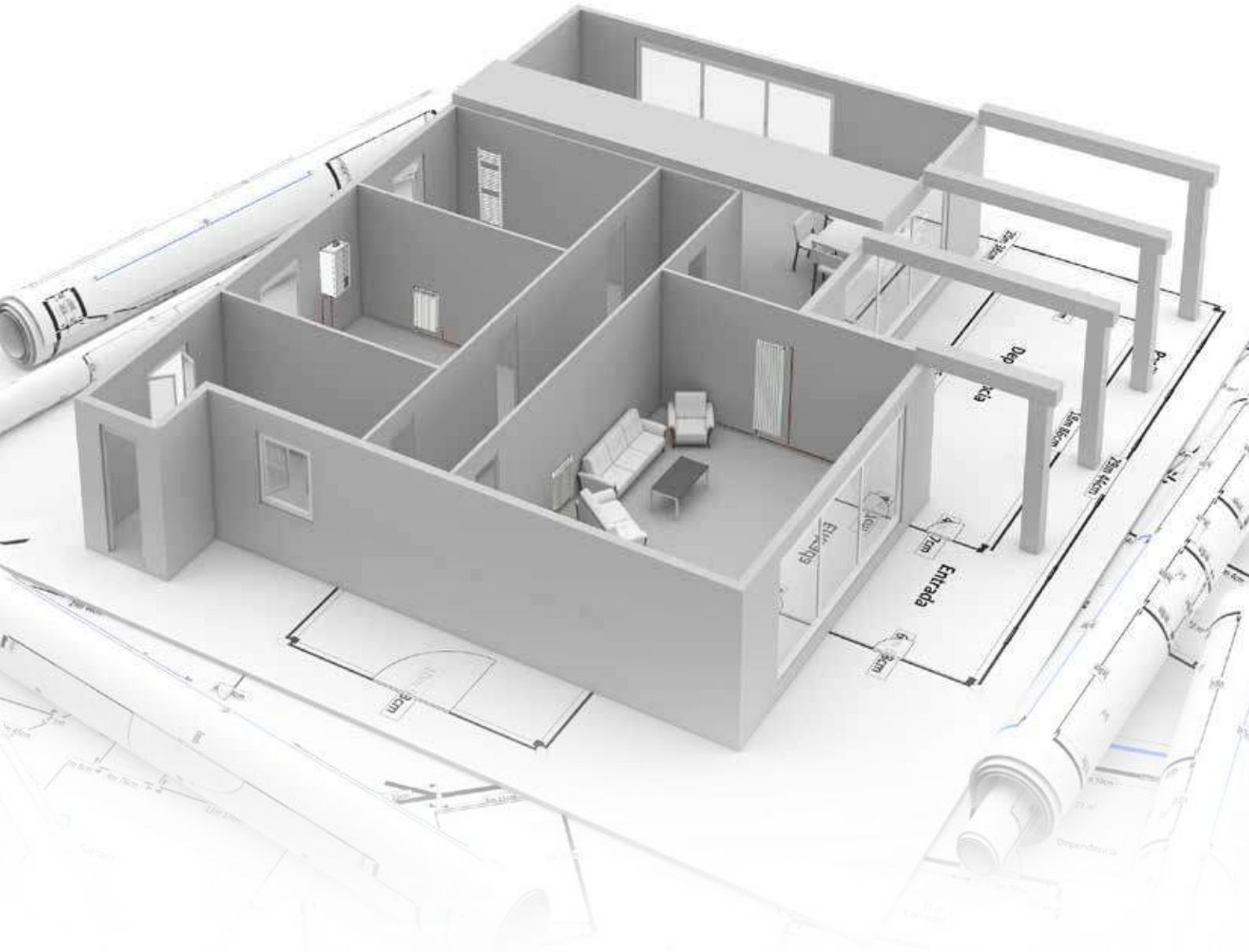
GET IT ON Google Play

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

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

# FONDITAL AND BIM:
## INNOVATION IN PROJECT DESIGN

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




bimobject®

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

# PRODUCT RANGE



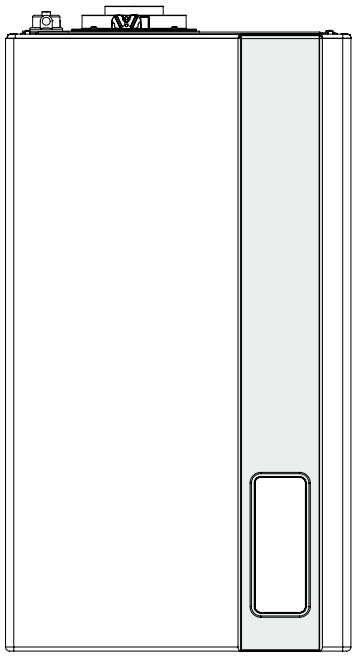

TOWEL RAIL
RADIATORS
ELECTRIC
RADIATORS
DIE-CAST
RADIATORS

# BOILERS

## CODE OF THE PRODUCT

KC KRB KB KR KBS KRBS CTN

## EXAMPLE



**ITACA KC**

WALL-HUNG CONDENSING BOILER WITH INSTANT PRODUCTION OF DHW

**K =** CONDENSING

**C =** COMBI BOILER WITH INSTANT DHW PRODUCTION

## KEY

**K** CONDENSING

**C** COMBI BOILER WITH INSTANT DHW PRODUCTION

**B** INTEGRATED HOT WATER STORAGE TANK

**R** CH ONLY

**AF** BI-THERMAL HEAT EXCHANGER

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

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

**TN** NATURAL DRAUGHT

**TFS** FORCED DRAUGHT

**IN** BUILT-IN INSTALLATION

| MODEL | CONDENSING | STANDARD | BOILER BODY | CENTRAL HEATING | INSTANTANEOUS DHW PRODUCTION | INTEGRATED STORAGE TANK | REMOTE STORAGE TANK | SOLAR EASY | WALL-HUNG | FLOOR-STANDING | CASCADE-TYPE INSTALLATION | < 35 KW | > 35 KW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ITACA KC | ● | | | | ● | | | ● | ● | | | ● | |
| ITACA KR | ● | | | ● | | | ● | ● | ● | | | ● | |
| ITACA KRB | ● | | | ● | | | ● | ● | ● | | | ● | |
| ITACA KB | ● | | | | | ● | | ● | ● | | | ● | |
| FORMENTERA KC | ● | | | | ● | | | ● | ● | | | ● | |
| FORMENTERA KR | ● | | | ● | | | ● | ● | ● | | | ● | |
| FORMENTERA KRB | ● | | | ● | | | ● | ● | ● | | | ● | |
| ANTEA NEXT KC | ● | | | | ● | | | ● | ● | | | ● | |
| ANTEA NEXT KR | ● | | | ● | | | ● | ● | ● | | | ● | |
| ANTEA NEXT KRB | ● | | | ● | | | ● | ● | ● | | | ● | |
| ANTEA KC | ● | | | | ● | | | ● | ● | | | ● | |
| ANTEA KR | ● | | | ● | | | ● | ● | ● | | | ● | |
| ANTEA KRB | ● | | | ● | | | ● | ● | ● | | | ● | |
| TENERIFE KC | ● | | | | ● | | | | ● | | | ● | |
| ITACA CH KR | ● | | | ● | | | | | ● | | ● | | ● |
| ITACA CH KR MODULE FOR INDOOR INSTALLATION | ● | | | ● | | | ● | | ● | | ● | | ● |
| ITACA CH KR CABINET MODULE | ● | | | ● | | | | | | | ● | | ● |
| ITACA CH KR MODULE BACK ON BACK | ● | | | ● | | | ● | ● | ● | | ● | | ● |
| GIAVA KRB | ● | | | | | ● | | | | ● | | ● | |
| FORMENTERA PRO CTN | | ● | | | ● | | | ● | ● | | | ● | |
| ANTEA PRO CTN | | ● | | | ● | | | | ● | | | ● | |

# SYMBOLS

**CONDENSING**
Condensing boiler

**STANDARD**
Standard boiler

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

**INDOOR INSTALLATION**
Indoor wall-hung boiler

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

**FLOOR-STANDING INSTALLATION**
Indoor floor-standing boiler

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

**PLATE EXCHANGER**
Plate DHW exchanger


**26-PLATE HEAT EXCHANGER**
26-plate DHW heat exchanger


**ALUMINIUM PRIMARY EXCHANGER**
Aluminium primary exchanger


**STAINLESS STEEL PRIMARY EXCHANGER**
Stainless steel heat exchanger


**Primary copper heat exchanger**
Primary copper heat exchanger

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

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


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


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

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

**EASY TO CONTROL**
Multilingual menu with detailed access to parameters

**FREEZE PROTECTION**
Boiler self-protection system

**REDUCED SIZE**
Reduced overall dimensions

**ELECTRONIC IGNITION**
Boiler equipped with electronic flame ignition board

**LOW NOx**
Low NOx emission boiler - class 6

**ENERGETIC SAVING**
Product with high energy efficiency

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

**FRONT DOOR FOR ACCESS**
Front access for easy maintenance

**COMFORT FUNCTION**
Control for activating DHW comfort function

**HIGH-EFFICIENCY CIRCULATING PUMP**
High efficiency circulating pump for optimised consumption and performance

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

**MADE IN ITALY**
Manufactured in Italy

**IOT - APP**
Control of the home heating system via Smartphone and possibility for the TAC to control all the parameters of the boiler and of the heating system via the home router (with the optional Spot thermostat and MySpot app)

# CONDENSING BOILERS

## WALL-HUNG BOILERS < 35KW



## FLOOR-STANDING BOILERS < 35KW



## TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

# ITACA KC

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

Available in the following models:

12 24 28 32

- **Ambient temperature probe supplied as standard**
- **Modulation ratio: 1:9**
- **Condensation also in DHW operation thanks to the thermally insulated 26-plate DHW heat exchanger**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Double filling system: automatic and manual**
- **High domestic hot water production, more power during DHW operation (18 - 28 - 30 - 35 kW)**
- **Compatible with methane-hydrogen mixtures up to 20%**
- 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: ★★★
- High-efficiency modulating circulation pump with built-in air purging device
- Compatible with SPOT smart thermostat

**TOUCH SCREEN INTERFACE**

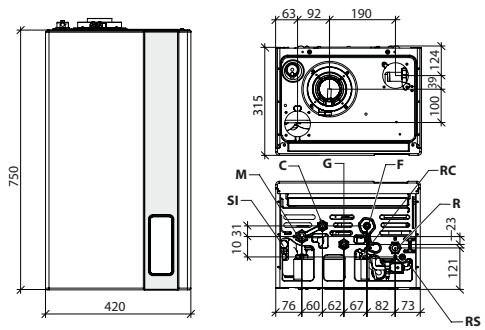
- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *DHW "comfort" function enabling: ★★★*

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

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **KC 12** | NATURAL GAS | KITXX2KC12 | 12,0 | 18,0 | A | A M | 420x750x315 | 35,5 |
| | PROPANE | KITXX6KC12 | | | | | | |
| **KC 24** | NATURAL GAS | KITXX2KC24 | 23,7 | 27,3 | A | A XL | 420x750x315 | 38,0 |
| | PROPANE | KITXX6KC24 | | | | | | |
| **KC 28** | NATURAL GAS | KITXX2KC28 | 26,4 | 30,4 | A | A XL | 420x750x315 | 39,0 |
| | PROPANE | KITXX6KC28 | | | | | | |
| **KC 32** | NATURAL GAS | KITXX2KC32 | 30,4 | 34,5 | A | A XXL | 420x750x315 | 40,5 |
| | PROPANE | KITXX6KC32 | | | | | | |

12 model available while stock lasts

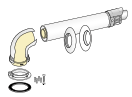
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




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

| Technical data | um | KC 12 | KC 24 | KC 28 | KC 32 |
|---|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe) | % | 93 | 95 | 95 | 96 |
| Water heating energy efficiency (ηwh) | % | 78 (**) | 85 (**) | 84 (**) | 87 (**) |
| 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 46

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |

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

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | Ambient temperature probe |

**ITACA KC** supplied with ambient temperature probe has a room heating seasonal efficiency of:
94% for model 12; 95% for model 24; 95% for model 28; 96% for model 32

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KC 12 | KC 24 | KC 28 | KC 32 |
| **Option 1** | Boiler + external probe (ambient temperature probe is not supplied) | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + external probe (ambient temperature probe is supplied) | **0SONDAES01** | 94% | 96% | 96% | 97% |
| **Option 3** | Boiler + remote control (ambient temperature probe is not supplied) | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 4** | Boiler + remote control + external probe (ambient temperature probe is not supplied) | **0CREMOTO04** | 94% | 96% | 96% | 97% |
| | | **0SONDAES01** | 94% | 96% | 96% | 97% |

# ITACA KR

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


Available in the following models:

12 24 28 32

- **Ambient temperature probe 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**
- **External hot water storage tank heating setting (optional)**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Thermosetting polymer-covered stainless steel heat exchanger
- Heating expansion vessel - 10 litres
- Thermoregulation with external probe (optional)
- Automatic by-pass
- High-efficiency modulating circulation pump with built-in air purging device
- Compatible with SPOT smart thermostat

**TOUCH SCREEN INTERFACE**

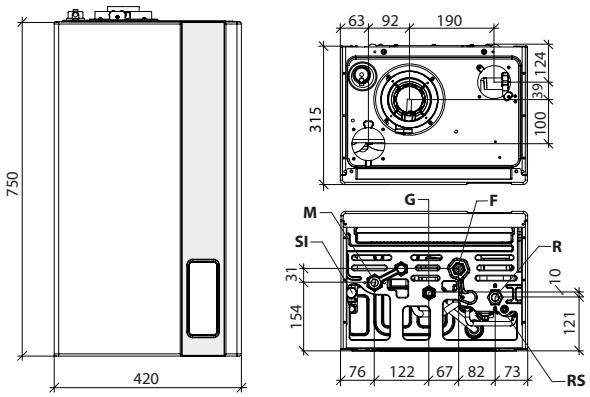
- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

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

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KR 12** | NATURAL GAS | KITXX2KR12 | 12,0 | 18,0 (*) | A | 420x750x315 | 34,0 |
| | PROPANE | KITXX6KR12 | | | | | |
| **KR 24** | NATURAL GAS | KITXX2KR24 | 23,7 | 27,3 (*) | A | 420x750x315 | 35,5 |
| | PROPANE | KITXX6KR24 | | | | | |
| **KR 28** | NATURAL GAS | KITXX2KR28 | 26,4 | 30,4 (*) | A | 420x750x315 | 37,0 |
| | PROPANE | KITXX6KR28 | | | | | |
| **KR 32** | NATURAL GAS | KITXX2KR32 | 30,4 | 34,5 (*) | A | 420x750x315 | 38,5 |
| | PROPANE | KITXX6KR32 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

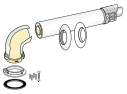
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

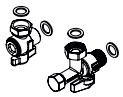



| | | | |
|---|---|---|---|
| **SI** | Condensate drain | **F** | Cold water inlet (1/2") |
| **M** | CH system flow (3/4") | **R** | CH system return (3/4") |
| **G** | Gas inlet (1/2") | **RS** | Discharge tap |

| Technical data | um | KR 12 | KR 24 | KR 28 | KR 32 |
|---|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe) | % | 93 | 95 | 95 | 96 |
| 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 47

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | 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 |
|  | Coax. adapter kit D.60/100 to D.80/125 | 0KITADCO00 |

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | Ambient temperature probe |

**ITACA KR** supplied with ambient temperature probe has a room heating seasonal efficiency of:
93% for model 12; 95% for model 24; 95% for model 28; 96% for model 32

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KR 12 | KR 24 | KR 28 | KR 32 |
| **Option 1** | Boiler + external probe (ambient temperature probe is not supplied) | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + external probe (ambient temperature probe is supplied) | **0SONDAES01** | 94% | 96% | 96% | 97% |
| **Option 3** | Boiler + remote control (ambient temperature probe is not supplied) | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 4** | Boiler + remote control + external probe (ambient temperature probe is not supplied) | **0CREMOTO04** | 94% | 96% | 96% | 97% |
| | | **0SONDAES01** | 94% | 96% | 96% | 97% |

# 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

- **Ambient temperature probe supplied as standard**
- **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**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Thermosetting polymer-covered stainless steel heat exchanger
- Thermoregulation with external probe (optional)
- Heating expansion vessel - 10 litres
- High-efficiency modulating circulation pump with built-in air purging device
- Anti-legionella function for hot water storage tank
- External hot water storage tank heating setting (optional)
- Compatible with SPOT smart thermostat

**TOUCH SCREEN INTERFACE**

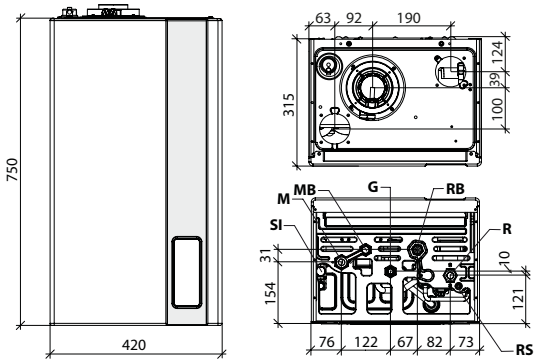
- *Modulation thermostat with ambient probe*
- *Day/night temperature level selection*
- *Weekly programming*
- *Timer and ambient temperature setting*
- *Heater DHW "comfort" function enabling*

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

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KRB 12** | NATURAL GAS | KITXX2KU12 | 12,0 | 18,0 (*) | A | 420x750x315 | 36,5 |
| | PROPANE | KITXX6KU12 | | | | | |
| **KRB 24** | NATURAL GAS | KITXX2KU24 | 23,7 | 27,3 (*) | A | 420x750x315 | 37,0 |
| | PROPANE | KITXX6KU24 | | | | | |
| **KRB 28** | NATURAL GAS | KITXX2KU28 | 26,4 | 30,4 (*) | A | 420x750x315 | 38,5 |
| | PROPANE | KITXX6KU28 | | | | | |
| **KRB 32** | NATURAL GAS | KITXX2KU32 | 30,4 | 34,5 (*) | A | 420x750x315 | 40,0 |
| | PROPANE | KITXX6KU32 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

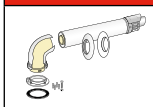
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




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

| Technical data | um | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
|---|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe) | % | 93 | 95 | 95 | 96 |
| 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 48

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |

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

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | Ambient temperature probe |
|  | hot water storage tank temperature probe 3m |

**ITACA KRB** supplied with ambient temperature probe has a room heating seasonal efficiency of:
93% for model 12; 95% for model 24; 95% for model 28; 96% for model 32

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
| **Option 1** | Boiler + external probe (ambient temperature probe is not supplied) | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + external probe (ambient temperature probe is supplied) | **0SONDAES01** | 94% | 96% | 96% | 97% |
| **Option 3** | Boiler + remote control (ambient temperature probe is not supplied) | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 4** | Boiler + remote control + external probe (ambient temperature probe is not supplied) | **0CREMOTO04** | 94% | 96% | 96% | 97% |
| | | **0SONDAES01** | 94% | 96% | 96% | 97% |

# ITACA KB

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


- **Ambient temperature probe supplied as standard**
- **Modulation ratio: 1:9**
- **Thermally-insulated 45-litre stainless steel hot water storage tank**
- **hot water storage tank heating setting**
- **Management of one heating zone with ambient temperature probe and two zones with zone kit**
- **Multifunction relay for connection to systems with zone valves or to solar plant or to remote alarm signal**
- **Heating expansion vessel - 10 litres**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Thermosetting polymer-covered stainless steel heat exchanger
- Compatible with SPOT smart thermostat
- Thermoregulation with external probe (optional)
- Anti-legionella function for hot water storage tank
- Prearranged for connection to a recirculation system
- High-efficiency modulating circulation pump with built-in air purging device
- Automatic by-pass

**Available in the following models:**

24 32

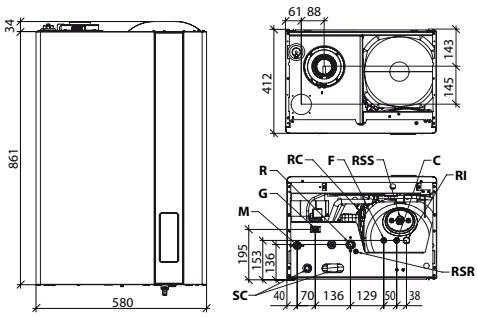
**TOUCH SCREEN INTERFACE**

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

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

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

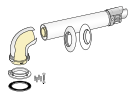
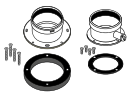
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

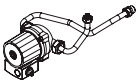
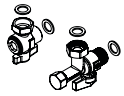



| | | | |
|---|---|---|---|
| **M** | CH system flow (3/4") | **RSS** | DHW drain cock |
| **G** | Gas inlet (1/2") | **C** | DHW outlet (1\2") |
| **R** | CH system return (3/4") | **RI** | Recirculation inlet (1/2") |
| **RC** | Filler tap | **RSR** | CH discharge tap |
| **F** | Cold water inlet (1/2")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

| Technical data | um | KB 24 | KB 32 |
|---|---|---|---|
| Rated output (Pn) | kW | 23 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 93 |
| Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe) | % | 95 | 96 |
| Water heating energy efficiency (ηwh) | % | 82 | 80 |
| 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 49

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

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

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | Ambient temperature probe |

**ITACA KB** supplied with ambient temperature probe has a room heating seasonal efficiency of:
95% for model 24; 96% for model 32

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | |
|---|---|---|---|---|
| Regulation device | | Code | KB 24 | KB 32 |
| **Option 1** | Boiler + external probe (ambient temperature probe is not supplied) | **0SONDAES01** | 94% | 95% |
| **Option 2** | Boiler + external probe (ambient temperature probe is supplied) | **0SONDAES01** | 96% | 97% |
| **Option 3** | Boiler + remote control (ambient temperature probe is not supplied) | **0CREMOTO04** | 95% | 96% |
| **Option 4** | Boiler + remote control + external probe (ambient temperature probe is not supplied) | **0CREMOTO04** | 96% | 97% |
| | | **0SONDAES01** | 96% | 97% |

# FORMENTERA KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW


- **Modulation ratio: 1:9**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **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**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Thermosetting polymer-covered stainless steel heat exchanger
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Automatic by-pass


**TOUCH SCREEN INTERFACE**

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

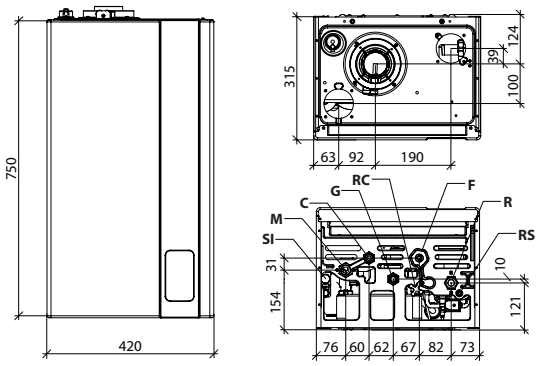
**Available in the following models:**

12 24 28 32

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **KC 12** | NATURAL GAS | KFOXX2KC12 | 12,0 | 18,0 | A | A M | 420x750x315 | 36,5 |
| | PROPANE | KFOXX6KC12 | | | | | | |
| **KC 24** | NATURAL GAS | KFOXX2KC24 | 23,7 | 27,3 | A | A XL | 420x750x315 | 37,5 |
| | PROPANE | KFOXX6KC24 | | | | | | |
| **KC 28** | NATURAL GAS | KFOXX2KC28 | 26,4 | 30,4 | A | A XL | 420x750x315 | 39,0 |
| | PROPANE | KFOXX6KC28 | | | | | | |
| **KC 32** | NATURAL GAS | KFOXX2KC32 | 30,4 | 34,5 | A | A XXL | 420x750x315 | 40,5 |
| | PROPANE | KFOXX6KC32 | | | | | | |

12 model available while stock lasts

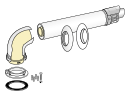
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




| | | | |
|---|---|---|---|
| **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 data | um | KC 12 | KC 24 | KC 28 | KC 32 |
|---|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Water heating energy efficiency (ηwh) | % | 77 | 85 | 86 | 87 |
| 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 50

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |

| Item | Description | Code |
|---|---|---|
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | 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 91

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KC 12 | KC 24 | KC 28 | KC 32 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01** + **0CREMOTO04** | 94% | 96% | 96% | 97% |

# 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**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **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**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Thermosetting polymer-covered stainless steel heat exchanger
- Anti-legionella function for hot water storage tank
- Automatic by-pass
- Thermoregulation with external probe (optional)

**TOUCH SCREEN INTERFACE**

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

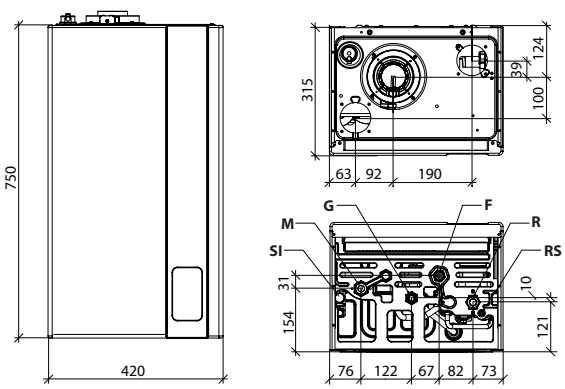
**Available in the following models:**

12 24 28 32

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KR 12** | NATURAL GAS | KFOXX2KR12 | 12,0 | 18,0 (*) | A | 420x750x315 | 34,0 |
| | PROPANE | KFOXX6KR12 | | | | | |
| **KR 24** | NATURAL GAS | KFOXX2KR24 | 23,7 | 27,3 (*) | A | 420x750x315 | 36,0 |
| | PROPANE | KFOXX6KR24 | | | | | |
| **KR 28** | NATURAL GAS | KFOXX2KR28 | 26,4 | 30,4 (*) | A | 420x750x315 | 37,5 |
| | PROPANE | KFOXX6KR28 | | | | | |
| **KR 32** | NATURAL GAS | KFOXX2KR32 | 30,4 | 34,5 (*) | A | 420x750x315 | 39,0 |
| | PROPANE | KFOXX6KR32 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

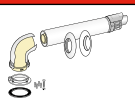
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

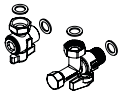



| | | | |
|---|---|---|---|
| **SI** | Trap inspection cap | **F** | Cold water inlet (1/2") |
| **M** | CH system flow (3/4") | **R** | CH system return (3/4") |
| **G** | Gas inlet (1/2") | **RS** | Discharge tap |

| Technical data | um | KR 12 | KR 24 | KR 28 | KR 32 |
|---|---|---|---|---|---|
| Rated 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 51

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |

| Item | Description | Code |
|---|---|---|
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | hot water storage tank temperature probe 3m | 0KITSOND00 |
|  | 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 91

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KR 12 | KR 24 | KR 28 | KR 32 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01** + **0CREMOTO04** | 94% | 96% | 96% | 97% |

# 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**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **Standard management of one type of solar thermal system**
- **Thermoregulation with external probe (optional)**
- **Integrated 3-way deviating valve**
- **Heating expansion vessel - 10 litres**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Thermosetting polymer-covered stainless steel heat exchanger
- CH water flow rate electronic control
- Freeze protection function for heating and hot water storage tank
- Automatic by-pass

**TOUCH SCREEN INTERFACE**

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

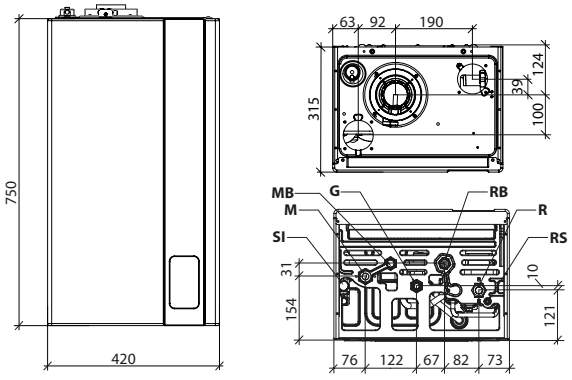
**Available in the following models:**

12 24 28 32

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KRB 12** | NATURAL GAS | KFOXX2KU12 | 12,0 | 18,0 (*) | A | 420x750x315 | 35,5 |
| | PROPANE | KFOXX6KU12 | | | | | |
| **KRB 24** | NATURAL GAS | KFOXX2KU24 | 23,7 | 27,3 (*) | A | 420x750x315 | 37,0 |
| | PROPANE | KFOXX6KU24 | | | | | |
| **KRB 28** | NATURAL GAS | KFOXX2KU28 | 26,4 | 30,4 (*) | A | 420x750x315 | 38,0 |
| | PROPANE | KFOXX6KU28 | | | | | |
| **KRB 32** | NATURAL GAS | KFOXX2KU32 | 30,4 | 34,5 (*) | A | 420x750x315 | 39,0 |
| | PROPANE | KFOXX6KU32 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

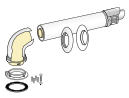
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




| | | | |
|---|---|---|---|
| **SI** | Trap inspection cap | | |
| **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") | **R** | CH system return (3/4") |
| **G** | Gas inlet (1/2") | **RS** | Discharge tap |

| Technical data | um | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
|---|---|---|---|---|---|
| Rated 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 52

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

| Item | Description | Code |
|---|---|---|
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | Tap kit with filter KC-KRB-CT-RBT | 0KITRUBI05 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |
|  | Temperature probe for solar plants | PSPTMILL00 |

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | hot water storage tank temperature probe 3m |

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% | 95% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% | 96% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01** + **0CREMOTO04** | 94% | 96% | 96% | 97% |

# ANTEA NEXT KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW



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

**USER INTERFACE**

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

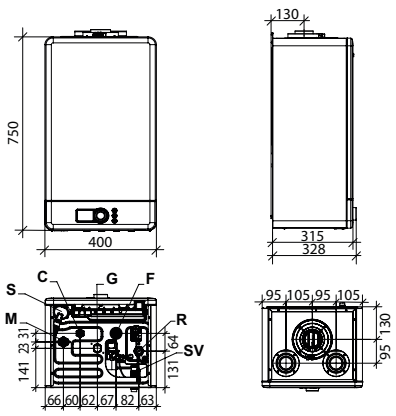
**Available in the following models:**

26 30 35

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **KC 26** | NATURAL GAS | KAGXX2KC26 | 23,7 | 27,3 | A | A XL | 400x750x315 | 30,5 |
| | PROPANE | KAGXX6KC26 | | | | | | |
| **KC 30** | NATURAL GAS | KAGXX2KC30 | 26,7 | 30,4 | A | A XL | 400x750x315 | 32,5 |
| | PROPANE | KAGXX6KC30 | | | | | | |
| **KC 35** | NATURAL GAS | KAGXX2KC35 | 30,4 | 34,5 | A | A XL | 400x750x315 | 33,0 |
| | PROPANE | KAGXX6KC35 | | | | | | |

***Included in the price:*** Paper installation template, aspiration closing plugs.

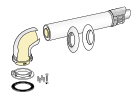
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

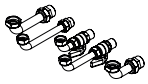
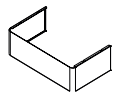



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | **G** | Gas inlet (3\4") |
| **M** | CH system flow (3/4") | **F** | Cold water inlet (1/2") |
| **C** | DHW outlet (1\2") | **R** | CH system return (3/4") |
| **SV** | 3-bar safety valve drain | | |

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

For other technical specifications, see from page 53

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |

| Item | Description | Code |
|---|---|---|
|  | Ambient temperature probe | 0KITSAMB00 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | Basic solar kit | 0KITSOLC09 |
|  | Basic hydraulic kit Next boilers | 0KITIDBA30 |
|  | Covering pipes and boiler taps Next (*) | 0COPETUB08 |
|  | NTC probe kit for 10k beta 3977 circuit breaker (*) | 0KITSOND01 |
|  | PT 1000 probe kit with ring connection (*) | 0KITSOPT00 |

For other accessories, see from page 91

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

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | |
|---|---|---|---|---|---|
| Regulation device | | Code | KC 26 | KC 30 | KC 35 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 94% | 94% | 93% |
| **Option 2** | Boiler + room temperature probe | **0KITSAMB00** | 95% | 95% | 94% |
| **Option 3** | Boiler + external probe + room temperature probe | **0KITSAMB00**<br>**0SONDAES01** | 96% | 96% | 95% |
| **Option 4** | Boiler + remote control | **0CREMOTO04** | 95% | 95% | 94% |
| **Option 5** | Boiler+ remote control + external probe | **0CREMOTO04**<br>**0SONDAES01** | 96% | 96% | 95% |

# ANTEA NEXT KR

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

New!


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

**USER INTERFACE**

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

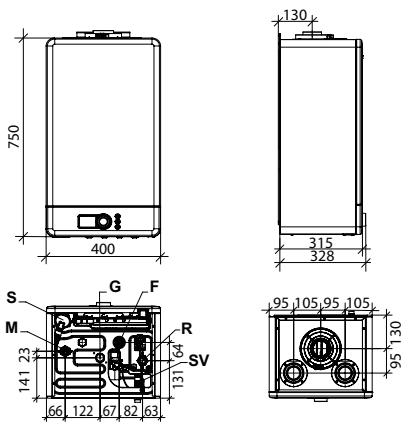
**Available in the following models:**

12 24 28 32

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

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

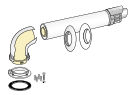
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

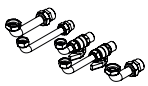
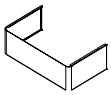



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | **G** | Gas inlet (3\4") |
| **M** | CH system flow (3/4") | **F** | Cold water inlet (1/2") |
| **SV** | 3-bar safety valve drain | **R** | CH system return (3/4") |

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

For other technical specifications, see from page 54
(*) with optional hot water storage tank.

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |

| Item | Description | Code |
|---|---|---|
|  | Ambient temperature probe | 0KITSAMB00 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | Basic hydraulic kit Next boilers | 0KITIDBA30 |
|  | Covering pipes and boiler taps Next (*) | 0COPETUB08 |
|  | PT 1000 probe kit with ring connection (*) | 0KITSOPT00 |
|  | Coax. adapter kit D.60/100 to D.80/125 | 0KITADCO00 |

For other accessories, see from page 91

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

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KR 12 | KR 24 | KR 28 | KR 32 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 94% | 94% | 94% | 93% |
| **Option 2** | Boiler + room temperature probe | **0KITSAMB00** | 95% | 95% | 95% | 94% |
| **Option 3** | Boiler + external probe + room temperature probe | **0KITSAMB00** + **0SONDAES01** | 96% | 96% | 96% | 95% |
| **Option 4** | Boiler + remote control | **0CREMOTO04** | 95% | 95% | 95% | 94% |
| **Option 5** | Boiler+ remote control + external probe | **0CREMOTO04** + **0SONDAES01** | 96% | 96% | 96% | 95% |

# ANTEA NEXT KRB

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

New!


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

**USER INTERFACE**

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

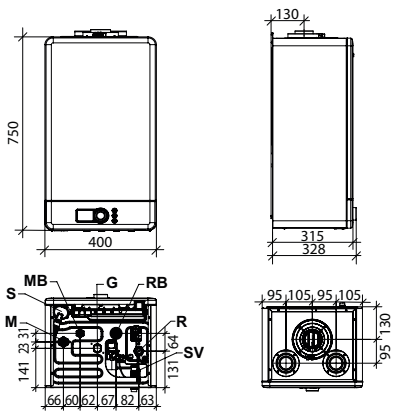
**Available in the following models:**

12 24 28 32

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

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

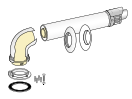
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

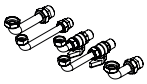
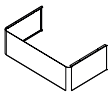



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | **G** | Gas inlet (3\4") |
| **M** | CH system flow (3/4") | **RB** | Secondary return from hot water storage tank (1/2") |
| **MB** | Secondary flow to storage tank (1\2") | | |
| **SV** | 3-bar safety valve drain | **R** | CH system return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

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

For other technical specifications, see from page 55
(*) with optional hot water storage tank.

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |
|  | Ambient temperature probe | 0KITSAMB00 |

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

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | hot water storage tank temperature probe 3m |

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

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
| Option 1 | Boiler + external probe | 0SONDAES01 | 94% | 94% | 94% | 93% |
| Option 2 | Boiler + room temperature probe | 0KITSAMB00 | 95% | 95% | 95% | 94% |
| Option 3 | Boiler + external probe + room temperature probe | 0KITSAMB00<br>0SONDAES01 | 96% | 96% | 96% | 95% |
| Option 4 | Boiler + remote control | 0CREMOTO04 | 95% | 95% | 95% | 94% |
| Option 5 | Boiler+ remote control + external probe | 0CREMOTO04<br>0SONDAES01 | 96% | 96% | 96% | 95% |

# ANTEA KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW


**Available in the following models:**

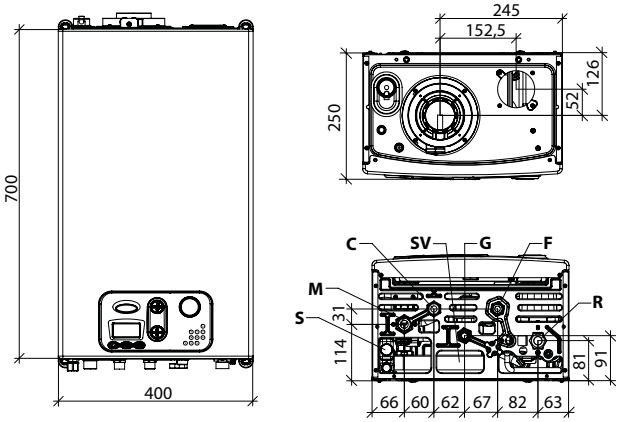
12 24 28

- **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**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **Compact dimension, only 250 mm deep**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Management of 2 different kinds of solar thermal system (with additional kit)
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| KC 12 | NATURAL GAS | KALXX2KC12 | 12,0 | 18,0 | A | A M | 400x700x250 | 30,5 |
| | PROPANE | KALXX6KC12 | | | | | | |
| KC 24 | NATURAL GAS | KALXX2KC24 | 23,7 | 27,3 | A | A XL | 400x700x250 | 32,0 |
| | PROPANE | KALXX6KC24 | | | | | | |
| KC 28 | NATURAL GAS | KALXX2KC28 | 26,4 | 30,4 | A | A XL | 400x700x250 | 33,5 |
| | PROPANE | KALXX6KC28 | | | | | | |

12 model available while stock lasts

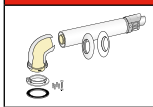
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

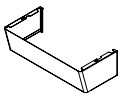



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | **G** | Gas inlet (1/2") |
| **M** | CH system flow (3/4") | **F** | Cold water inlet (1/2") |
| **C** | DHW outlet (1\2") | **R** | CH system return (3/4") |
| **SV** | 3-bar safety valve drain | | |

| Technical data | um | KC 12 | KC 24 | KC 28 |
|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| Water heating energy efficiency (ηwh) | % | 78 | 84 | 80 |
| 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 56

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

| Item | Description | Code |
|---|---|---|
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | 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<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | 0COPETUB00 |

For other accessories, see from page 91

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | |
|---|---|---|---|---|---|
| Regulation device | | Code | KC 12 | KC 24 | KC 28 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01**<br>**0CREMOTO04** | 94% | 96% | 96% |

# 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**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **Compact dimension, only 250 mm deep**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

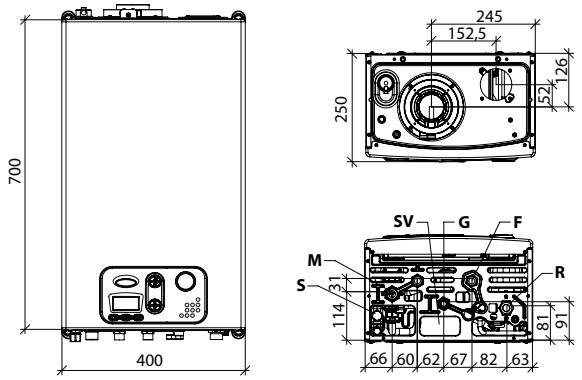
**Available in the following models:**

12 24 28

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KR 12** | NATURAL GAS | KALXX2KR12 | 12,0 | 18,0 (*) | A | 400x700x250 | 29,5 |
| | PROPANE | KALXX6KR12 | | | | | |
| **KR 24** | NATURAL GAS | KALXX2KR24 | 23,7 | 27,3 (*) | A | 400x700x250 | 32,0 |
| | PROPANE | KALXX6KR24 | | | | | |
| **KR 28** | NATURAL GAS | KALXX2KR28 | 26,4 | 30,4 (*) | A | 400x700x250 | 31,0 |
| | PROPANE | KALXX6KR28 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

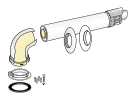
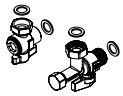
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

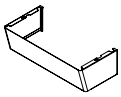



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | **G** | Gas inlet (1/2") |
| **M** | CH system flow (3/4") | **F** | Cold water inlet (1/2") |
| **SV** | 3-bar safety valve drain | **R** | CH system return (3/4") |

| Technical data | um | KR 12 | KR 24 | KR 28 |
|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| 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 57

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Tap kit with filter KR-KB-RT | 0KITRUBI04 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |

| Item | Description | Code |
|---|---|---|
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | 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<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | 0COPETUB00 |
|  | Starting flange kit for condensing boilers | 0KITFLAN00 |

For other accessories, see from page 91

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | |
|---|---|---|---|---|---|
| Regulation device | | Code | KR 12 | KR 24 | KR 28 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01**<br>**0CREMOTO04** | 94% | 96% | 96% |

# ANTEA 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:**

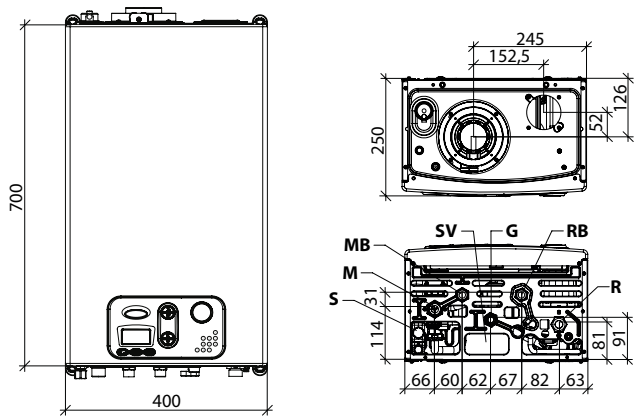
12 24 28

- **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**
- **High-efficiency modulating circulation pump with built-in air purging device**
- **Compact dimension, only 250 mm deep**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Compatible with SPOT smart thermostat
- Freeze protection function for heating and hot water storage tank
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Programmable parameters to adapt the boiler to the installation and alerts history
- Automatic by-pass

| Model | Gas type | Code | Heat input | | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | mm | kg |
| **KRB 12** | NATURAL GAS | KALXX2KU12 | 12,0 | 18,0 (*) | A | 400x700x250 | 29,5 |
| | PROPANE | KALXX6KU12 | | | | | |
| **KRB 24** | NATURAL GAS | KALXX2KU24 | 23,7 | 27,3 (*) | A | 400x700x250 | 31,0 |
| | PROPANE | KALXX6KU24 | | | | | |
| **KRB 28** | NATURAL GAS | KALXX2KU28 | 26,4 | 30,4 (*) | A | 400x700x250 | 32,5 |
| | PROPANE | KALXX6KU28 | | | | | |

(*) with optional hot water storage tank.
12 model available while stock lasts

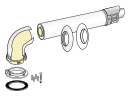
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

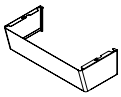



| | | | |
|---|---|---|---|
| **S** | Trap inspection cap | | |
| **M** | CH system flow (3/4") | **G** | Gas inlet (1/2") |
| **MB** | Secondary flow to hot water storage tank (1/2") | **RB** | Secondary return from hot water storage tank (1/2") |
| **SV** | 3-bar safety valve drain | **R** | CH system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

| Technical data | um | KRB 12 | KRB 24 | KRB 28 |
|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| 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 58

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Tap kit with filter KC-KRB-CT-RBT | 0KITRUBI05 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

| Item | Description | Code |
|---|---|---|
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | 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<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | 0COPETUB00 |

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | hot water storage tank temperature probe 3m |

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | |
|---|---|---|---|---|---|
| Regulation device | | Code | KRB 12 | KRB 24 | KRB 28 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 92% | 94% | 94% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 93% | 95% | 95% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01**<br>**0CREMOTO04** | 94% | 96% | 96% |

# TENERIFE KC

WALL-HUNG CONDENSING BOILER WITH INSTANTANEOUS PRODUCTION OF DHW


- **High efficiency stainless steel heat exchanger with single coil and wide passage section**
- **Heating expansion vessel - 9 litres**
- **Compact dimension, only 250 mm deep**
- **Easy to install in pre-existing plants thanks to: central flue vent, wall fixing bracket and double hole for split suction**
- **Thermoregulation with external probe (optional)**
- **Backlit LCD user interface with diagnostics**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Modulation ratio: 1:5
- Fully pre-mixed burner
- High-efficiency circulation pump with built-in air purging device
- Programmable parameters to adapt the boiler to the installation and alerts history
- Stainless steel plate DHW heat exchanger
- Automatic by-pass
- Compatible with SPOT smart thermostat

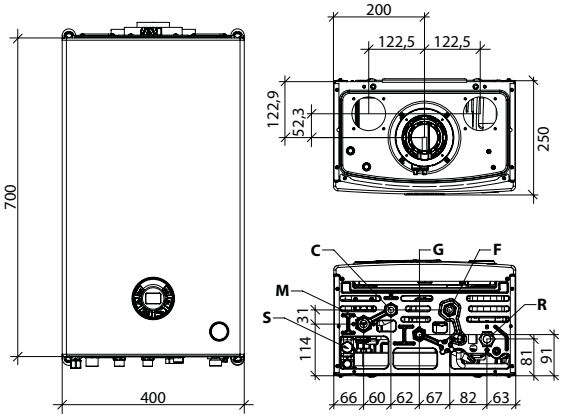
**Available in the following models:**

24

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **KC 24** | NATURAL GAS | KTLXX2KC24 | 20,0 | 24,0 | A | A XL | 400x700x250 | 29,0 |
| | PROPANE | KTLXX6KC24 | | | | | | |

***Included in the price:*** Paper installation template, aspiration closing plugs.

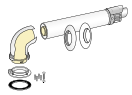
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

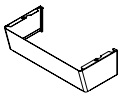



| | | | |
|---|---|---|---|
| **S** | Condensate drain | **G** | Gas inlet (1/2") |
| **M** | CH system flow (3/4") | **F** | Cold water inlet (1/2") |
| **C** | DHW outlet (1\2") | **R** | CH system return (3/4") |

| Technical data | um | KC 24 |
|---|---|---|
| Rated output (Pn) | kW | 19 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 |
| Water heating energy efficiency (ηwh) | % | 84 |
| 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 59

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Ambient temperature probe | 0KITSAMB00 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |

| Item | Description | Code |
|---|---|---|
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |
|  | Compact wall pipe cover<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | 0COPETUB00 |
|  | Tap kit with filter KC-KRB-CT-RBT | 0KITRUBI05 |
|  | Coax. adapter kit D.60/100 to D.80/125 | 0KITADCO00 |

For other accessories, see from page 91

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | |
|---|---|---|---|
| Regulation device | | Code | KC 24 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 94% |
| **Option 2** | Boiler + room temperature probe | **0KITSAMB00** | 95% |
| **Option 3** | Boiler + remote control | **0CREMOTO04** | 95% |
| **Option 4** | Boiler+ remote control + external probe | **0CREMOTO04**<br>**0SONDAES01** | 96% |

# GIAVA KRB

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


Available in the following models:

12 24 28 32

- **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**
- **Ambient temperature probe supplied as standard**
- **Modulation ratio: 1:9**
- **Hydraulic connections on the sides**
- **Front door for immediate access to boiler**
- **Compatible with methane-hydrogen mixtures up to 20%**
- Thermoregulation with external probe (optional)
- Thermosetting polymer-covered stainless steel heat exchanger
- 5-litre DHW expansion vessel
- Compatible with SPOT smart thermostat

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **KRB 12** | NATURAL GAS | KGBXX2KU12 | 12,0 | 18,0 | A | A XL | 600x1857x642 | 189,0 |
| | PROPANE | KGBXX6KU12 | | | | | | |
| **KRB 24** | NATURAL GAS | KGBXX2KU24 | 23,7 | 27,3 | A | A XL | 600x1857x643 | 190,0 |
| | PROPANE | KGBXX6KU24 | | | | | | |
| **KRB 28** | NATURAL GAS | KGBXX2KU28 | 26,4 | 30,4 | A | A XL | 600x1857x644 | 192,0 |
| | PROPANE | KGBXX6KU28 | | | | | | |
| **KRB 32** | NATURAL GAS | KGBXX2KU32 | 30,4 | 34,5 | A | A XL | 600x1857x645 | 193,0 |
| | PROPANE | KGBXX6KU32 | | | | | | |
| **KRB V 12** | NATURAL GAS | KGBXX2KV12 | 12,0 | 18,0 | A | A XL | 600x1857x642 | 201,00 |
| | PROPANE | KGBXX6KV12 | | | | | | |
| **KRB V 24** | NATURAL GAS | KGBXX2KV24 | 23,7 | 27,3 | A | A XL | 600x1857x643 | 203,00 |
| | PROPANE | KGBXX6KV24 | | | | | | |
| **KRB V 28** | NATURAL GAS | KGBXX2KV28 | 26,4 | 30,4 | A | A XL | 600x1857x644 | 204,00 |
| | PROPANE | KGBXX6KV28 | | | | | | |
| **KRB V 32** | NATURAL GAS | KGBXX2KV32 | 30,4 | 34,5 | A | A XL | 600x1857x645 | 205,00 |
| | PROPANE | KGBXX6KV32 | | | | | | |
| **KRB Z 12** | NATURAL GAS | KGBXX2KZ12 | 12,0 | 18,0 | A | A XL | 600x1857x642 | 204,00 |
| | PROPANE | KGBXX6KZ12 | | | | | | |
| **KRB Z 24** | NATURAL GAS | KGBXX2KZ24 | 23,7 | 27,3 | A | A XL | 600x1857x643 | 205,00 |
| | PROPANE | KGBXX6KZ24 | | | | | | |
| **KRB Z 28** | NATURAL GAS | KGBXX2KZ28 | 26,4 | 30,4 | A | A XL | 600x1857x644 | 207,00 |
| | PROPANE | KGBXX6KZ28 | | | | | | |
| **KRB Z 32** | NATURAL GAS | KGBXX2KZ32 | 30,4 | 34,5 | A | A XL | 600x1857x645 | 208,00 |
| | PROPANE | KGBXX6KZ32 | | | | | | |

**TOUCH SCREEN INTERFACE**

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

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

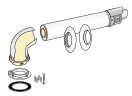
## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | | | |
|---|---|---|---|---|---|---|
| Regulation device | | Code | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
| **Option 1** | Boiler + external probe (ambient temperature probe is not supplied) | **0SONDAES01** | 92% | 93% | 93% | 94% |
| **Option 2** | Boiler + external probe (ambient temperature probe is supplied) | **0SONDAES01** | 94% | 95% | 95% | 96% |
| **Option 3** | Boiler + remote control (ambient temperature probe is not supplied) | **0CREMOTO04** | 93% | 94% | 94% | 95% |
| **Option 4** | Boiler + remote control + external probe (ambient temperature probe is not supplied) | **0CREMOTO04** | 94% | 95% | 95% | 96% |
| | | **0SONDAES01** | 94% | 95% | 95% | 96% |

| Technical data | um | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
|---|---|---|---|---|---|
| Rated output (Pn) | kW | 12 | 23 | 25 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 91 | 91 | 92 |
| Seasonal energy efficiency of ambient heating (ηs) (Boiler + ambient temperature probe) | % | 93 | 94 | 94 | 95 |
| Water heating energy efficiency (ηwh) | % | 83 | 80 | 82 | 81 |
| 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 60
12 model available while stock lasts

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

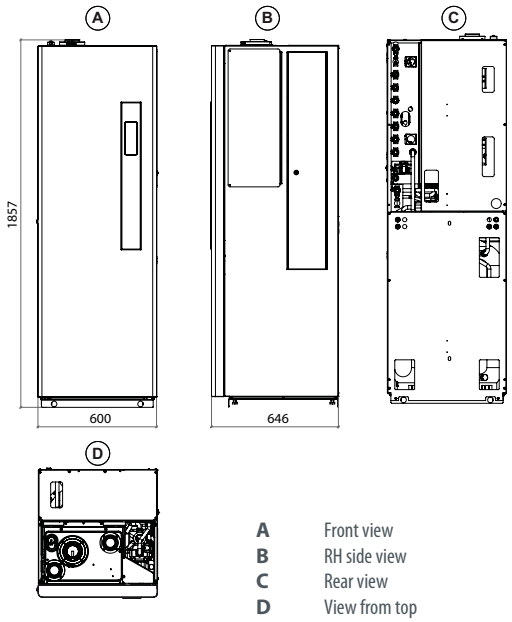
| Item | Description | Code |
|---|---|---|
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | Giava recirculation optional kit | 0KRICIRC00 |
|  | Coax. adapter kit D.60/100 to D.80/125 | 0KITADCO00 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |

For other accessories, see from page 91

**Accessories supplied as standard**

| Item | Description |
|---|---|
|  | Ambient temperature probe |

## DIMENSIONS AND CONNECTION CENTRE DISTANCES




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



fondital

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

## TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| Stated load profile | - | M | XL | XL | XXL |
| Water heating energy efficiency (ηwh) | % | 78 (**) | 85 (**) | 84 (**) | 87 (**) |
| Energy efficiency class of water heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW nominal heat output (ΔT 30°C) | kW | 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 |
| Maximum power consumption | W | 88 | 97 | 101 | 106 |
| Circulation pump power input | W | 50 | 50 | 50 | 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<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

(**) with comfort function disabled.

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Q_{n(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Q_{nw(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,40 | 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<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Itaca | Itaca | Itaca | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,40 | 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<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Itaca | Itaca |
|---|---|---|---|
| Model | - | KB 24 | KB 32 |
| Type | - | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93 | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93 |
| Rated output (Pn) | kW | 23 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A |
| Stated load profile | - | XL | XL |
| Water heating energy efficiency (ηwh) | % | 82 | 80 |
| Energy efficiency class of water heating | - | A | A |
| Nominal heat input (Qn) | kW | 23,7 | 30,4 |
| Reduced heat input (Qr) | kW | 3,0 | 4,2 |
| Nominal heat flow rate with 20%H2NG mixture ($Q_{n(20\%H2)}$) | kW | 22,4 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 2,8 | 4,0 |
| 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Q_{nw(20\%H2)}$) | kW | 25,9 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 2,8 | 4,0 |
| 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 | 97 | 106 |
| Circulation pump power input | W | 50 | 50 |
| Electric protection rating | IP | IPX4D | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| Stated load profile | - | M | XL | XL | XXL |
| Water heating energy efficiency (ηwh) | % | 77 | 85 | 86 | 87 |
| Energy efficiency class of water heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW nominal heat output (ΔT 30°C) | kW | 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 | 81 | 90 | 94 | 106 |
| Circulation pump power input | W | 43 | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,40 | 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 | 43 | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,7 | 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,40 | 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 | 43 | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Antea Next | Antea Next | Antea Next |
|---|---|---|---|---|
| Model | - | KC 26 | KC 30 | KC 35 |
| Type | - | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X |
| Rated output (Pn) | kW | 23 | 26 | 30 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 92 | 91 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A |
| Stated load profile | - | XL | XL | XL |
| Water heating energy efficiency (ηwh) | % | 84 | 84 | 85 |
| Energy efficiency class of water heating | - | A | A | A |
| Nominal heat input (Qn) | kW | 23,7 | 26,7 | 30,4 |
| Reduced heat input (Qr) | kW | 3,0 | 3,3 | 4,2 |
| Nominal heat flow rate with 20%H2NG mixture ($Q_{n(20\%H2)}$) | kW | 22,4 | 25,3 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 23,1 | 26,0 | 29,6 |
| Reduced heat output (80-60°C) (Pr) | kW | 2,8 | 3,1 | 3,8 |
| Heat output (50-30°C) | kW | 25,0 | 28,1 | 32,2 |
| Reduced heat output (50-30°C) | kW | 3,3 | 3,4 | 4,4 |
| Useful efficiency at nominal input (80-60°C) | % | 97,3 | 97,3 | 97,3 |
| Useful efficiency at nominal input (50-30°C) | % | 105,5 | 105,4 | 105,9 |
| Useful efficiency at 30% (30°C return) | % | 108,4 | 108,0 | 107,8 |
| Heating circuit working pressure (min-max) | bar | 0,5-3,0 | 0,5-3,0 | 0,5-3,0 |
| 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 | 27,3 | 30,4 | 34,5 |
| DHW minimum heat input | kW | 3,0 | 3,3 | 4,2 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Q_{nw(20\%H2)}$) | kW | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 2,8 | 3,1 | 4,0 |
| DHW nominal heat output (ΔT 30°C) | kW | 26,6 | 29,6 | 33,6 |
| DHW circuit working pressure (min-max) | bar | 0,5-6,0 | 0,5-6,0 | 0,5-6,0 |
| Specific DHW flow ΔT=30K | l/min | 13,4 | 15,0 | 17,3 |
| 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 | % | 0,33 | 0,55 | 0,43 |
| Casing heat loss with burner off | % | 0,21 | 0,23 | 0,21 |
| Chimney heat loss with burner on at nominal heat input | % | 2,66 | 2,66 | 2,74 |
| Air-flue ΔT at nominal heat input | °C | 54 | 55 | 55 |
| Flue gas flow at nominal heat input | g/s | 12,2 | 13,5 | 15,4 |
| CO2 at nominal heat input of heating (Natural gas) | % | 9,3 | 9,3 | 9,3 |
| CO2 at nominal heat input of heating (Propane) | % | 10,6 | 10,6 | 10,6 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 |
| Maximum power consumption | W | 103 | 108 | 118 |
| Circulation pump power input | W | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Antea Next | Antea Next | Antea Next | Antea Next |
|---|---|---|---|---|---|
| Model | - | KR 12 | KR 24 | KR 28 | KR 32 |
| Type | - | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X |
| Rated output (Pn) | kW | 12 | 23 | 26 | 30 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 92 | 92 | 91 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| Nominal heat input (Qn) | kW | 12,0 | 23,7 | 26,7 | 30,4 |
| Reduced heat input (Qr) | kW | 2,0 | 3,0 | 3,3 | 4,2 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,3 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,8 | 23,1 | 26,0 | 29,6 |
| Reduced heat output (80-60°C) (Pr) | kW | 1,8 | 2,8 | 3,1 | 3,8 |
| Heat output (50-30°C) | kW | 12,9 | 25,0 | 28,1 | 32,2 |
| Reduced heat output (50-30°C) | kW | 2,1 | 3,3 | 3,4 | 4,4 |
| Useful efficiency at nominal input (80-60°C) | % | 98,0 | 97,3 | 97,3 | 97,3 |
| Useful efficiency at nominal input (50-30°C) | % | 107,5 | 105,5 | 105,4 | 105,9 |
| Useful efficiency at 30% (30°C return) | % | 108,3 | 108,4 | 108,0 | 107,8 |
| Heating circuit working pressure (min-max) | bar | 0,5-3,0 | 0,5-3,0 | 0,5-3,0 | 0,5-3,0 |
| CH temperature setting range | °C | 20-78 | 20-78 | 20-78 | 20-78 |
| CH maximum working temperature | °C | 83 | 83 | 83 | 83 |
| Heating expansion vessel capacity | l | 9 | 9 | 9 | 9 |
| DHW nominal heat input | kW | 18,0 (*) | 27,3 (*) | 30,4 (*) | 34,5 (*) |
| DHW minimum heat input | kW | 2,0 (*) | 2,0 (*) | 3,3 (*) | 4,2 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,00 | 0,33 | 0,55 | 0,43 |
| Casing heat loss with burner off | % | 0,42 | 0,21 | 0,23 | 0,21 |
| Chimney heat loss with burner on at nominal heat input | % | 1,99 | 2,66 | 2,66 | 2,74 |
| Air-flue ΔT at nominal heat input | °C | 47,0 | 54 | 55 | 55 |
| Flue gas flow at nominal heat input | g/s | 8,0 | 12,2 | 13,5 | 15,4 |
| CO2 at nominal heat input of heating (Natural gas) | % | 9,3 | 9,3 | 9,3 | 9,3 |
| CO2 at nominal heat input of heating (Propane) | % | 10,2 | 10,6 | 10,6 | 10,6 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 |
| Maximum power consumption | W | 96 | 103 | 108 | 118 |
| Circulation pump power input | W | 43 | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Antea Next | Antea Next | Antea Next | Antea Next |
|---|---|---|---|---|---|
| Model | - | KRB 12 | KRB 24 | KRB 28 | KRB 32 |
| Type | - | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X | B23-B23P-B33-C13-C33-C43-C53-C63-C83-C13X-C33X-C43X-C53X-C63X-C83X-C93-C93X |
| Rated output (Pn) | kW | 12 | 23 | 26 | 30 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 92 | 92 | 91 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| Nominal heat input (Qn) | kW | 12,0 | 23,7 | 26,7 | 30,4 |
| Reduced heat input (Qr) | kW | 2,0 | 3,0 | 3,3 | 4,2 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,3 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,8 | 23,1 | 26,0 | 29,6 |
| Reduced heat output (80-60°C) (Pr) | kW | 1,8 | 2,8 | 3,1 | 3,8 |
| Heat output (50-30°C) | kW | 12,9 | 25,0 | 28,1 | 32,2 |
| Reduced heat output (50-30°C) | kW | 2,1 | 3,3 | 3,4 | 4,4 |
| Useful efficiency at nominal input (80-60°C) | % | 98,0 | 97,3 | 97,3 | 97,3 |
| Useful efficiency at nominal input (50-30°C) | % | 107,5 | 105,5 | 105,4 | 105,9 |
| Useful efficiency at 30% (30°C return) | % | 108,3 | 108,4 | 108,0 | 107,8 |
| Heating circuit working pressure (min-max) | bar | 0,5-3,0 | 0,5-3,0 | 0,5-3,0 | 0,5-3,0 |
| CH temperature setting range | °C | 20-78 | 20-78 | 20-78 | 20-78 |
| CH maximum working temperature | °C | 83 | 83 | 83 | 83 |
| Heating expansion vessel capacity | l | 9 | 9 | 9 | 9 |
| DHW nominal heat input | kW | 18,0 (*) | 27,3 (*) | 30,4 (*) | 34,5 (*) |
| DHW minimum heat input | kW | 2,0 (*) | 2,0 (*) | 3,3 (*) | 4,2 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW temperature range | °C | 35-65 (***) | 35-65 (***) | 35-65 (***) | 35-65 (***) |
| DHW maximum working temperature | °C | 65 (***) | 65 (***) | 65 (***) | 65 (***) |
| NOx emission class | - | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,00 | 0,33 | 0,55 | 0,43 |
| Casing heat loss with burner off | % | 0,42 | 0,21 | 0,23 | 0,21 |
| Chimney heat loss with burner on at nominal heat input | % | 1,99 | 2,66 | 2,66 | 2,74 |
| Air-flue ΔT at nominal heat input | °C | 47,0 | 54 | 55 | 55 |
| Flue gas flow at nominal heat input | g/s | 8,0 | 12,2 | 13,5 | 15,4 |
| CO2 at nominal heat input of heating (Natural gas) | % | 9,3 | 9,3 | 9,3 | 9,3 |
| CO2 at nominal heat input of heating (Propane) | % | 10,2 | 10,6 | 10,6 | 10,6 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 |
| Maximum power consumption | W | 96 | 103 | 108 | 118 |
| Circulation pump power input | W | 43 | 43 | 43 | 50 |
| Electric protection rating | IP | IPX5D | IPX5D | IPX5D | IPX5D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Antea | Antea | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A |
| Stated load profile | - | M | XL | XL |
| Water heating energy efficiency (ηwh) | % | 78 | 84 | 80 |
| Energy efficiency class of water heating | - | A | A | A |
| Nominal heat input (Qn) | kW | 12,0 | 23,7 | 26,4 |
| Reduced heat input (Qr) | kW | 2,0 | 3,0 | 3,3 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 | 81 | 90 | 94 |
| Circulation pump power input | W | 43 | 43 | 43 |
| Electric protection rating | IP | IPX4D | IPX4D | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A |
| Nominal heat input (Qn) | kW | 12,0 | 23,7 | 26,4 |
| Reduced heat input (Qr) | kW | 2,0 | 3,0 | 3,3 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 |
| Maximum power consumption | W | 81 | 90 | 94 |
| Circulation pump power input | W | 43 | 43 | 43 |
| Electric protection rating | IP | IPX4D | IPX4D | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Antea | Antea | 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 |
| Rated output (Pn) | kW | 12 | 23 | 26 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 92 | 92 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A |
| Nominal heat input (Qn) | kW | 12,0 | 23,7 | 26,4 |
| Reduced heat input (Qr) | kW | 2,0 | 3,0 | 3,3 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 (*) |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 |
| 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 | 43 | 43 | 43 |
| Electric protection rating | IP | IPX4D | IPX4D | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Tenerife |
|---|---|---|
| Model | - | KC 24 |
| Type | - | B23-B23P-B33-C13-C13X-C33-C33X-C43-C43X-C53-C53X-C63-C63X-C83-C83X |
| Rated output (Pn) | kW | 19 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 |
| Seasonal energy efficiency class of ambient heating | - | A |
| Stated load profile | - | XL |
| Water heating energy efficiency (ηwh) | % | 84 |
| Energy efficiency class of water heating | - | A |
| Nominal heat input (Qn) | kW | 20,0 |
| Reduced heat input (Qr) | kW | 5,0 |
| Nominal heat flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 18,9 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 4,7 |
| 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 22,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 4,7 |
| 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 | 104 |
| Circulation pump power input | W | 43 |
| Electric protection rating | IP | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>60+60<br>100/60<br>125/80 |

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | 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 |
| Rated output (Pn) | kW | 12 | 23 | 25 | 29 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 90 | 91 | 91 | 92 |
| Seasonal energy efficiency of ambient heating (ηs) V version | % | 90 | 91 | 91 | 91 |
| Seasonal energy efficiency of ambient heating (ηs) Z version | % | 90 | 91 | 91 | 91 |
| Seasonal energy efficiency class of ambient heating | - | A | A | A | A |
| Stated load profile | - | XL | XL | XL | XL |
| Water heating energy efficiency (ηwh) | % | 83 | 80 | 82 | 81 |
| Water heating energy efficiency (ηwh) V version | % | 83 | 80 | 82 | 81 |
| Water heating energy efficiency (ηwh) Z version | % | 83 | 80 | 82 | 80 |
| Energy efficiency class of water heating | - | A | A | A | A |
| 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 flow rate with 20%H2NG mixture ($Qn_{(20\%H2)}$) | kW | 11,4 | 22,4 | 25,0 | 28,8 |
| Minimum low heat flow rate with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 11,6 | 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 |
| Nominal heat flow rate in DHW with 20%H2NG mixture ($Qnw_{(20\%H2)}$) | kW | 17,0 | 25,9 | 28,8 | 32,7 |
| Minimum heat flow rate in DHW with 20%H2NG mixture | kW | 1,9 | 2,8 | 3,1 | 4,0 |
| DHW nominal heat output (ΔT 30°C) | kW | 17,5 | 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 | 88 | 97 | 101 | 106 |
| Maximum power absorption - version V | W | 176 | 185 | 189 | 194 |
| Maximum power absorption - version Z | W | 224 | 233 | 237 | 242 |
| Circulation pump power input | W | 50 | 50 | 50 | 50 |
| 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<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 | 80+80<br>60+60<br>100/60<br>125/80 |

# CONDENSING BOILERS > 35 KW - MÓDULOS

## HIGH OUTPUT BOILERS > 35 KW



## TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS



## MODULES

# ITACA CH KR

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

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

**Available in the following models:**

45 60 85 120 150

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

| Model | Gas type | Code | Heat input | Energy efficiency class | W x H x D | Gross weight |
|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Room heating | mm | kg |
| **CH KR 45** | NATURAL GAS | KITXX2KR45 | 40,0 | A | 500x834x510 | 71,0 |
| | PROPANE | KITXX6KR45 | | | | |
| **CH KR 60** | NATURAL GAS | KITXX2KR60 | 60,0 | A | 500x834x510 | 75,5 |
| | PROPANE | KITXX6KR60 | | | | |
| **CH KR 85** | NATURAL GAS | KITXX2KR85 | 81,0 | A | 500x834x510 | 100,0 |
| | PROPANE | KITXX6KR85 | | | | |
| **CH KR 120** | NATURAL GAS | KITXX2KR1C | 115,0 | A | 500x883x689 | 112,0 |
| | PROPANE | KITXX6KR1C | | | | |
| **CH KR 150** | NATURAL GAS | KITXX2KR1F | 140,0 | A | 500x883x689 | 133,5 |
| | PROPANE | KITXX6KR1F | | | | |

| 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 | **KIPXX2KR45** | **KIPXX2KR60** | **KIPXX2RR85** | **KIPXX2RR1C** | **KIPXX2RR1F** |
| Boiler | KITXX2KR45 | KITXX2KR60 | KITXX2KR85 | KITXX2KR1C | KITXX2KR1F |
| Pump | 0KCIRCOL00 | 0KCIRCOL00 | 0KCIRCOL05 | 0KCIRCOL07 | 0KCIRCOL07 |


mod. CH KR 45

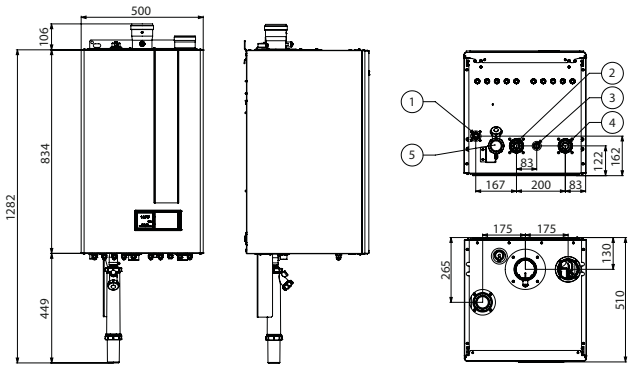

mod. CH KR 60


mod. CH KR 85


mod. CH KR 120


mod. CH KR 150

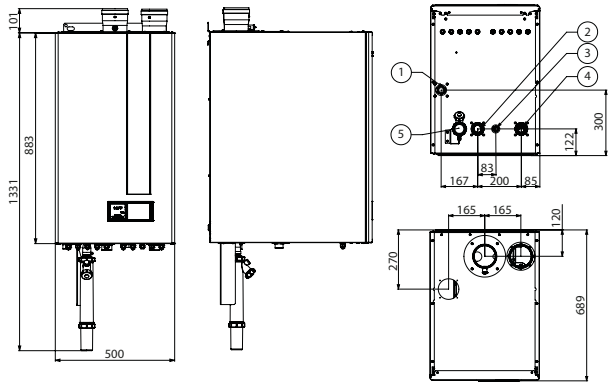
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




**mod. CH KR 45 - 60 - 85**

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

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




**mod. CH KR 120 - 150**

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

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

| Technical data | um | CH KR 45 | CH KR 60 | CH KR 85 | CH KR 120 | CH KR 150 |
|---|---|---|---|---|---|---|
| Rated output (Pn) | kW | 39 | 58 | 79 | 112 | 136 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 93 | 93 | 93 | 93 |
| Nominal heat input (Qn) | kW | 40,0 | 60,0 | 81,0 | 115,0 | 140,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 38,5 | 58,3 | 78,5 | 112,0 | 136,3 |
| Heat output (50-30°C) | kW | 41,5 | 62,8 | 84,8 | 122,0 | 148,7 |
| Reduced heat output (50-30°C) | kW | 4,3 | 6,5 | 9,7 | 12,4 | 23,9 |
| Useful efficiency at nominal input (80-60°C) | % | 97,1 | 97,1 | 96,9 | 97,4 | 97,3 |
| Useful efficiency at 30% (30°C return) | % | 108,2 | 108,4 | 108,3 | 108,6 | 108,4 |
| Safety valve calibration pressure | bar | 3 | 3,5 | 5 | 5 | 5 |
| CH temperature setting range | °C | 20-80 | 20-80 | 20-80 | 20-80 | 20-80 |
| NOx emission class | - | 6 | 6 | 6 | 6 | 6 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Maximum power consumption | W | 94 | 119 | 156 | 251 | 310 |
| Electric protection rating | IP | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D |
| Maximum CH system pressure (PMS) | bar | 3,6 | 4,2 | 6 | 6 | 6 |
| Water content | l | 2,2 | 3,3 | 4,3 | 6,7 | 9,2 |

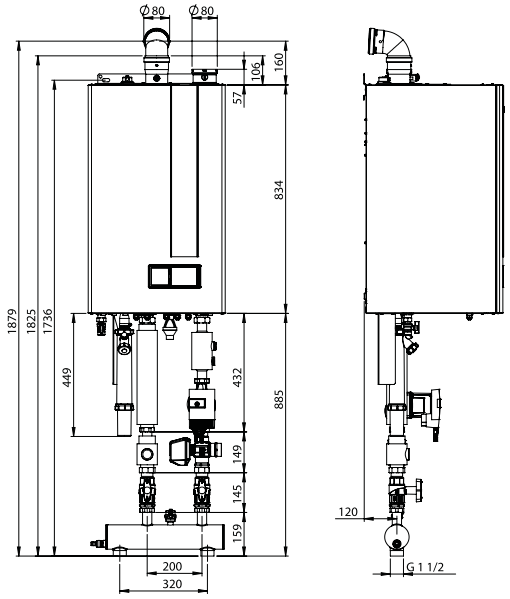
For other technical specifications, see from page 69

## How to increase energy efficiency?

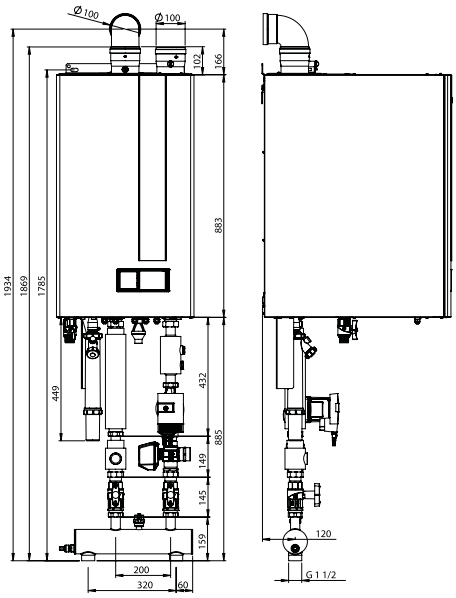
Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | |
|---|---|---|---|---|
| Regulation device | | Code | CH KR 45 | CH KR 60 |
| **Option 1** | Boiler + external probe | **0KSONEST01** | 94% | 95% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 95% | 96% |
| **Option 3** | Boiler+ remote control + external probe | **0KSONEST01** + **0CREMOTO04** | 96% | 97% |

## INSTALLING DIMENSIONS

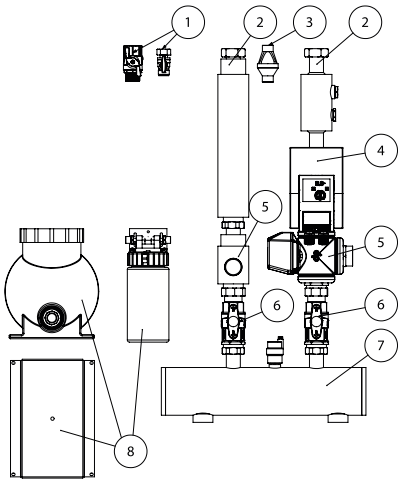


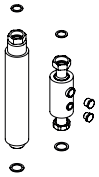

mod. CH KR 45 - 60 - 85

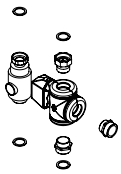
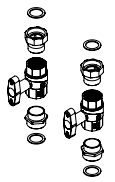
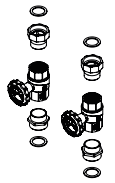
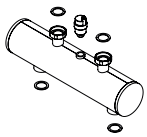
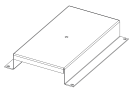


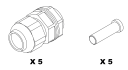
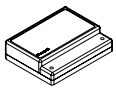
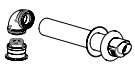

mod. CH KR 120 - 150

## 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<br>the return flow connection is provided with connection for expansion vessel and for drain cock | 0KCONIDR00 | ● | ● | ● | ● | ● |
| 3 |  | Drain funnel kit for G ½ F fitting safety valve (no INAIL) | 0KIMBSCA00 | ● | ● | ● | ● | ● |
| 4 |  | Wilo PWM pump - 7.5 m centre distance 180 mm connections G 1 ½ M | 0KCIRCOL00 | ● | ● | | | |

| Ref. | Item | Description | Code | CH KR 45 | CH KR 60 | CH KR 85 | CH KR 120 | CH KR 150 |
|---|---|---|---|---|---|---|---|---|
| 4 |  | Insulation casing for 0KCIRCOL00 provided with velcro fastening | 0KISOCIR00 | ● | ● | | | |
| |  | Grundfos UPML PWM pump - 10.5 m - centre distance 180 mm connections G 1 ½ M | 0KCIRCOL05 | | | ● | | |
| |  | Grundfos UPMXL self-adjusting pump - 12 m - centre distance 180 mm connections G 1 ½ M | 0KCIRCOL06 | ● | ● | ● | | |
| |  | Grundfos UPMXL PWM pump - 12 m - centre distance 180 mm connections G 1 ½ M | 0KCIRCOL07 | | | | ● | ● |
| |  | Grundfos Pump UPMXXL PWM – 12 m - centre distance 180 mm G 1 ½ M connections | 0KCIRCOL08 | | | | ● | ● |
| 5 |  | 3 way valve kit for dhw tank | 0KTREVBO00 | ● | ● | ● | ● | ● |
| 6 |  | Hidraulic taps provided with fittings G 1 ½ and gaskets | 0KRUBMAN00 | ● | ● | ● | ● | ● |
| |  | Hidraulic taps with termometer<br>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<br>Pump - hydraulic separator recommended coupling (see 0KCIRCOL05)<br>PWM pump - 8 m<br>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 | ● | ● | ● | ● | ● |
| |  | Antifreeze kit for Itaca CH KR siphon<br>(including insulation panels to be applied around the siphon) | 0KANTIGE03 | ● | ● | ● | ● | ● |
| |  | Coaxial kit 80/125 for 45-60-85 kW **(items normally not available in stock, minimum availability time 8 weeks)** | 0KITASCA02 | ● | ● | ● | | |

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

# TECHNICAL SPECIFICATIONS OF CONDENSING BOILERS

| Technical data | um | Itaca | Itaca | Itaca | Itaca | Itaca |
|---|---|---|---|---|---|---|
| Model | - | CH KR 45 | CH KR 60 | CH KR 85 | CH KR 120 | CH KR 150 |
| Type | - | C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11) | C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11) | C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11) | C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11) | C13-C33-C43-C53-C63-C83-C93-C13X-C33X-C43X-C63X-C93X-B23-B23P-C(10)-C(11) |
| Rated output (Pn) | kW | 39 | 58 | 79 | 112 | 136 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 92 | 93 | 93 | 93 | 93 |
| Seasonal energy efficiency class of ambient heating | - | A | A | - | - | - |
| Nominal heat input (Qn) | kW | 40,0 | 60,0 | 81,0 | 115,0 | 140,0 |
| Reduced heat input (Qr) | kW | 4,0 | 6,0 | 9,0 | 11,5 | 22,5 |
| Nominal heat output (80-60°C) (Pn) | kW | 38,5 | 58,3 | 78,5 | 112,0 | 136,3 |
| Reduced heat output (80-60°C) (Pr) | kW | 3,8 | 5,8 | 8,5 | 11,1 | 21,6 |
| Heat output (50-30°C) | kW | 41,5 | 62,8 | 84,8 | 122,0 | 148,7 |
| Reduced heat output (50-30°C) | kW | 4,3 | 6,5 | 9,7 | 12,4 | 23,9 |
| Useful efficiency at nominal input (80-60°C) | % | 97,1 | 97,1 | 96,9 | 97,4 | 97,3 |
| Useful efficiency at nominal input (50-30°C) | % | 105,3 | 104,6 | 104,8 | 106,1 | 106,2 |
| Useful efficiency at 30% (30°C return) | % | 108,2 | 108,4 | 108,3 | 108,6 | 108,4 |
| CH temperature setting range | °C | 20-80 | 20-80 | 20-80 | 20-80 | 20-80 |
| CH maximum working temperature | °C | 83 | 83 | 83 | 83 | 83 |
| NOx emission class | - | 6 | 6 | 6 | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 0,15 | 0,25 | 1,12 | 0,6 | 0,76 |
| Casing heat loss with burner off | % | 0,21 | 0,17 | 0,141 | 0,084 | 0,09 |
| Chimney heat loss with burner on at nominal heat input | % | 2,80 | 2,65 | 2,8 | 2,59 | 2,34 |
| Air-flue ΔT at nominal heat input | °C | 57 | 57 | 45,3 | 54 | 52,6 |
| Flue gas flow at nominal heat input | g/s | 18,98 | 27,25 | 37,2 | 52,7 | 64,2 |
| CO2 at nominal heat input of heating (Natural gas) | % | 9,2 | 9,1 | 9 | 9 | 9 |
| CO2 at nominal heat input of heating (Propane) | % | 10,3 | 10,3 | 10 | 10,2 | 10,2 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Maximum power consumption | W | 94 | 119 | 156 | 251 | 310 |
| Electric protection rating | IP | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D |
| Air intake/flue gas vent pipe diameter | mm | 80+80<br>80/125 | 80+80<br>80/125 | 80+80<br>80/125 | 100+100<br>100/150 | 100+100<br>100/150 |
| Water content | l | 2,2 | 3,3 | 4,3 | 6,7 | 9,2 |

# ITACA CH KR MODULE FOR INDOOR INSTALLATION

MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING

- **Multilingual user's interface**
- **High-efficiency stainless steel heat exchanger**
- **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
- Supplied with flue gas collector if the module consists of at least 2 boilers
- Available in the following versions: with direct collectors; with hydraulic separator; with plate exchanger
- Class 6 of NOx emissions

**Available in the following models:**

from 45 to 900

The declared efficiency class is not requested for output models above 70 kW.

**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 "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 | KIQXX2SD45 | 40,0 | 41,5 | 1 (1 x 45) |
| **WALL MODULE 60** | NATURAL GAS | KIQXX2SD60 | 60,0 | 62,8 | 1 (1 x 60) |
| **WALL MODULE 85** | NATURAL GAS | KIQXX2SD85 | 81,0 | 84,8 | 1 (1 x 85) |
| **WALL MODULE 90 (**)** | NATURAL GAS | KIQXX2SD90 | 80,0 | 83,0 | 2 (2 x 45) |
| **WALL MODULE 105 (**)** | NATURAL GAS | KIQXX2SDA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIQXX2SD1C | 115,0 | 122,0 | 1 (1 x 120) |
| **WALL MODULE 150** | NATURAL GAS | KIQXX2SD1F | 140,0 | 148,7 | 1 (1 x 150) |
| **WALL MODULE 170** | NATURAL GAS | KIQXX2SD1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 205** | NATURAL GAS | KIQXX2SDA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| **WALL MODULE 240** | NATURAL GAS | KIQXX2SD2E | 230,0 | 244,0 | 2 (2 x 120) |
| **WALL MODULE 270** | NATURAL GAS | KIQXX2SD2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIQXX2SD3A | 280,0 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 325** | NATURAL GAS | KIQXX2SDC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| **WALL MODULE 360** | NATURAL GAS | KIQXX2SD3G | 345,0 | 366,0 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIQXX2SD3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 420** | NATURAL GAS | KIQXX2SD4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIQXX2SD4F | 420,0 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIQXX2SD4I | 460,0 | 488,0 | 4 (4 x 120) |
| **WALL MODULE 510** | NATURAL GAS | KIQXX2SD5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| **WALL MODULE 540** | NATURAL GAS | KIQXX2SD5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 570** | NATURAL GAS | KIQXX2SD5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIQXX2SD6A | 560,0 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 630** | NATURAL GAS | KIQXX2SD6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIQXX2SD6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 690** | NATURAL GAS | KIQXX2SD6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| **WALL MODULE 720** | NATURAL GAS | KIQXX2SD7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIQXX2SD7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| **WALL MODULE 780** | NATURAL GAS | KIQXX2SD7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIQXX2SD8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| **WALL MODULE 870** | NATURAL GAS | KIQXX2SD8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIQXX2SD9A | 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 | KIQXX2SA45 | 40,0 | 41,5 | 1 (1 x 45) |
| **WALL MODULE 60** | NATURAL GAS | KIQXX2SA60 | 60,0 | 62,8 | 1 (1 x 60) |
| **WALL MODULE 85** | NATURAL GAS | KIQXX2SA85 | 81,0 | 84,8 | 1 (1 x 85) |
| **WALL MODULE 90 (**)** | NATURAL GAS | KIQXX2SA90 | 80,0 | 83,0 | 2 (2 x 45) |
| **WALL MODULE 105 (**)** | NATURAL GAS | KIQXX2SAA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIQXX2SA1C | 115,0 | 122,0 | 1 (1 x 120) |
| **WALL MODULE 150** | NATURAL GAS | KIQXX2SA1F | 140,0 | 148,7 | 1 (1 x 150) |
| **WALL MODULE 170** | NATURAL GAS | KIQXX2SA1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 205** | NATURAL GAS | KIQXX2SAA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| **WALL MODULE 240** | NATURAL GAS | KIQXX2SA2E | 230,0 | 244,0 | 2 (2 x 120) |
| **WALL MODULE 270** | NATURAL GAS | KIQXX2SA2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIQXX2SA3A | 280,0 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 325** | NATURAL GAS | KIQXX2SAC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| **WALL MODULE 360** | NATURAL GAS | KIQXX2SA3G | 345,0 | 366,0 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIQXX2SA3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 420** | NATURAL GAS | KIQXX2SA4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIQXX2SA4F | 420,0 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIQXX2SA4I | 460,0 | 488,0 | 4 (4 x 120) |
| **WALL MODULE 510** | NATURAL GAS | KIQXX2SA5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| **WALL MODULE 540** | NATURAL GAS | KIQXX2SA5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 570** | NATURAL GAS | KIQXX2SA5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIQXX2SA6A | 560,0 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 630** | NATURAL GAS | KIQXX2SA6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIQXX2SA6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 690** | NATURAL GAS | KIQXX2SA6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| **WALL MODULE 720** | NATURAL GAS | KIQXX2SA7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIQXX2SA7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| **WALL MODULE 780** | NATURAL GAS | KIQXX2SA7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIQXX2SA8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| **WALL MODULE 870** | NATURAL GAS | KIQXX2SA8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIQXX2SA9A | 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 | KIQXX2SB45 | 40,0 | 41,5 | 1 (1 x 45) |
| **WALL MODULE 60** | NATURAL GAS | KIQXX2SB60 | 60,0 | 62,8 | 1 (1 x 60) |
| **WALL MODULE 85** | NATURAL GAS | KIQXX2SB85 | 81,0 | 84,8 | 1 (1 x 85) |
| **WALL MODULE 90 (**)** | NATURAL GAS | KIQXX2SB90 | 80,0 | 83,0 | 2 (2 x 45) |
| **WALL MODULE 105 (**)** | NATURAL GAS | KIQXX2SBA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIQXX2SB1C | 115,0 | 122,0 | 1 (1 x 120) |
| **WALL MODULE 150** | NATURAL GAS | KIQXX2SB1F | 140,0 | 148,7 | 1 (1 x 150) |
| **WALL MODULE 170** | NATURAL GAS | KIQXX2SB1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 205** | NATURAL GAS | KIQXX2SBA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| **WALL MODULE 240** | NATURAL GAS | KIQXX2SB2E | 230,0 | 244,0 | 2 (2 x 120) |
| **WALL MODULE 270** | NATURAL GAS | KIQXX2SB2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIQXX2SB3A | 280,0 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 325** | NATURAL GAS | KIQXX2SBC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| **WALL MODULE 360** | NATURAL GAS | KIQXX2SB3G | 345,0 | 366,0 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIQXX2SB3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 420** | NATURAL GAS | KIQXX2SB4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIQXX2SB4F | 420,0 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIQXX2SB4I | 460,0 | 488,0 | 4 (4 x 120) |
| **WALL MODULE 510** | NATURAL GAS | KIQXX2SB5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| **WALL MODULE 540** | NATURAL GAS | KIQXX2SB5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 570** | NATURAL GAS | KIQXX2SB5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIQXX2SB6A | 560,0 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 630** | NATURAL GAS | KIQXX2SB6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIQXX2SB6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 690** | NATURAL GAS | KIQXX2SB6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| **WALL MODULE 720** | NATURAL GAS | KIQXX2SB7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIQXX2SB7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| **WALL MODULE 780** | NATURAL GAS | KIQXX2SB7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIQXX2SB8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| **WALL MODULE 870** | NATURAL GAS | KIQXX2SB8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIQXX2SB9A | 840,0 | 892,2 | 6 (6 x 150) |

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

# ITACA CH KR MODULE BACK ON BACK

## MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING

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

**Available in the following models:**

from 90 to 900

**WARNING**

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

The modular generator is offered in the following configurations

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

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

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

| Direct collector configuration (*) | | | | | |
|---|---|---|---|---|---|
| Model | Gas type | Code | Nominal heat input (Qn) | Heat output (50-30°C) | Modules |
| | | | kW | kW | Nr (nr x [model]) |
| **WALL MODULE 90** | NATURAL GAS | KIRXX2SD90 | 80 | 83 | 2 (2 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIRXX2SD1C | 120 | 125,6 | 2 (2 x 60) |
| **WALL MODULE 145** | NATURAL GAS | KIRXX2SDE1 | 141 | 147,6 | 2 (1 x 60 + 1 x 85) |
| **WALL MODULE 170** | NATURAL GAS | KIRXX2SD1H | 162 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 180** | NATURAL GAS | KIRXX2SD1I | 180 | 188,4 | 3 (3 x 60) |
| **WALL MODULE 205** | NATURAL GAS | KIRXX2SDA2 | 201 | 210,4 | 3 (2 x 60 + 1 x 85) |
| **WALL MODULE 240** | NATURAL GAS | KIRXX2SD2E | 230 | 244 | 2 (2 x 120) |
| **WALL MODULE 255** | NATURAL GAS | KIRXX2SDF2 | 243 | 254,4 | 3 (3 x 85) |
| **WALL MODULE 270** | NATURAL GAS | KIRXX2SD2H | 255 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIRXX2SD3A | 280 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 360** | NATURAL GAS | KIRXX2SD3G | 345 | 366 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIRXX2SD3J | 370 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIRXX2SD4F | 420 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIRXX2SD4I | 460 | 488 | 4 (4 x 120) |
| **WALL MODULE 540** | NATURAL GAS | KIRXX2SD5E | 510 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIRXX2SD6A | 560 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIRXX2SD6G | 625 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIRXX2SD7F | 700 | 743,5 | 5 (5 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIRXX2SD8B | 765 | 812,1 | 6 (3 x 120 + 3 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIRXX2SD9A | 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 | KIRXX2SA90 | 80 | 83 | 2 (2 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIRXX2SA1C | 120 | 125,6 | 2 (2 x 60) |
| **WALL MODULE 145** | NATURAL GAS | KIRXX2SAE1 | 141 | 147,6 | 2 (1 x 60 + 1 x 85) |
| **WALL MODULE 170** | NATURAL GAS | KIRXX2SA1H | 162 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 180** | NATURAL GAS | KIRXX2SA1I | 180 | 188,4 | 3 (3 x 60) |
| **WALL MODULE 205** | NATURAL GAS | KIRXX2SAA2 | 201 | 210,4 | 3 (2 x 60 + 1 x 85) |
| **WALL MODULE 240** | NATURAL GAS | KIRXX2SA2E | 230 | 244 | 2 (2 x 120) |
| **WALL MODULE 255** | NATURAL GAS | KIRXX2SAF2 | 243 | 254,4 | 3 (3 x 85) |
| **WALL MODULE 270** | NATURAL GAS | KIRXX2SA2H | 255 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIRXX2SA3A | 280 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 360** | NATURAL GAS | KIRXX2SA3G | 345 | 366 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIRXX2SA3J | 370 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIRXX2SA4F | 420 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIRXX2SA4I | 460 | 488 | 4 (4 x 120) |
| **WALL MODULE 540** | NATURAL GAS | KIRXX2SA5E | 510 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIRXX2SA6A | 560 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIRXX2SA6G | 625 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIRXX2SA7F | 700 | 743,5 | 5 (5 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIRXX2SA8B | 765 | 812,1 | 6 (3 x 120 + 3 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIRXX2SA9A | 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 | KIRXX2SB90 | 80 | 83 | 2 (2 x 45) |
| **WALL MODULE 120** | NATURAL GAS | KIRXX2SB1C | 120 | 125,6 | 2 (2 x 60) |
| **WALL MODULE 145** | NATURAL GAS | KIRXX2SBE1 | 141 | 147,6 | 2 (1 x 60 + 1 x 85) |
| **WALL MODULE 170** | NATURAL GAS | KIRXX2SB1H | 162 | 169,6 | 2 ( 2 x 85) |
| **WALL MODULE 180** | NATURAL GAS | KIRXX2SB1I | 180 | 188,4 | 3 (3 x 60) |
| **WALL MODULE 205** | NATURAL GAS | KIRXX2SBA2 | 201 | 210,4 | 3 (2 x 60 + 1 x 85) |
| **WALL MODULE 240** | NATURAL GAS | KIRXX2SB2E | 230 | 244 | 2 (2 x 120) |
| **WALL MODULE 255** | NATURAL GAS | KIRXX2SBF2 | 243 | 254,4 | 3 (3 x 85) |
| **WALL MODULE 270** | NATURAL GAS | KIRXX2SB2H | 255 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **WALL MODULE 300** | NATURAL GAS | KIRXX2SB3A | 280 | 297,4 | 2 (2 x 150) |
| **WALL MODULE 360** | NATURAL GAS | KIRXX2SB3G | 345 | 366 | 3 (3 x 120) |
| **WALL MODULE 390** | NATURAL GAS | KIRXX2SB3J | 370 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **WALL MODULE 450** | NATURAL GAS | KIRXX2SB4F | 420 | 446,1 | 3 (3 x 150) |
| **WALL MODULE 480** | NATURAL GAS | KIRXX2SB4I | 460 | 488 | 4 (4 x 120) |
| **WALL MODULE 540** | NATURAL GAS | KIRXX2SB5E | 510 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **WALL MODULE 600** | NATURAL GAS | KIRXX2SB6A | 560 | 594,8 | 4 (4 x 150) |
| **WALL MODULE 660** | NATURAL GAS | KIRXX2SB6G | 625 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **WALL MODULE 750** | NATURAL GAS | KIRXX2SB7F | 700 | 743,5 | 5 (5 x 150) |
| **WALL MODULE 810** | NATURAL GAS | KIRXX2SB8B | 765 | 812,1 | 6 (3 x 120 + 3 x 150) |
| **WALL MODULE 900** | NATURAL GAS | KIRXX2SB9A | 840 | 892,2 | 6 (6 x 150) |

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

# ITACA CH KR CABINET MODULE

MODULAR CONDENSING HEAT GENERATOR FOR COMMERCIAL HEATING

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

**Available in the following models:**

from 45 to 900

The declared efficiency class is not requested for output models above 70 kW.

The modular generator is offered in the following configurations

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

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

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

| Direct collector configuration (*) | | | | | |
|---|---|---|---|---|---|
| Model | Gas type | Code | Nominal heat input (Qn) | Heat output (50-30°C) | Modules |
| | | | kW | kW | Nr (nr x [model]) |
| **CABINET MODULE 45** | NATURAL GAS | KIQXX2SO45 | 40,0 | 41,5 | 1 (1 x 45) |
| **CABINET MODULE 60** | NATURAL GAS | KIQXX2SO60 | 60,0 | 62,8 | 1 (1 x 60) |
| **CABINET MODULE 85** | NATURAL GAS | KIQXX2SO85 | 81,0 | 84,8 | 1 (1 x 85) |
| **CABINET MODULE 90 (**)** | NATURAL GAS | KIQXX2SO90 | 80,0 | 83,0 | 2 (2 x 45) |
| **CABINET MODULE 105 (**)** | NATURAL GAS | KIQXX2SOA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| **CABINET MODULE 120** | NATURAL GAS | KIQXX2SO1C | 115,0 | 122,0 | 1 (1 x 120) |
| **CABINET MODULE 150** | NATURAL GAS | KIQXX2SO1F | 140,0 | 148,7 | 1 (1 x 150) |
| **CABINET MODULE 170** | NATURAL GAS | KIQXX2SO1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| **CABINET MODULE 205** | NATURAL GAS | KIQXX2SOA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| **CABINET MODULE 240** | NATURAL GAS | KIQXX2SO2E | 230,0 | 244,0 | 2 (2 x 120) |
| **CABINET MODULE 270** | NATURAL GAS | KIQXX2SO2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| **CABINET MODULE 300** | NATURAL GAS | KIQXX2SO3A | 280,0 | 297,4 | 2 (2 x 150) |
| **CABINET MODULE 325** | NATURAL GAS | KIQXX2SOC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| **CABINET MODULE 360** | NATURAL GAS | KIQXX2SO3G | 345,0 | 366,0 | 3 (3 x 120) |
| **CABINET MODULE 390** | NATURAL GAS | KIQXX2SO3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| **CABINET MODULE 420** | NATURAL GAS | KIQXX2SO4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| **CABINET MODULE 450** | NATURAL GAS | KIQXX2SO4F | 420,0 | 446,1 | 3 (3 x 150) |
| **CABINET MODULE 480** | NATURAL GAS | KIQXX2SO4I | 460,0 | 488,0 | 4 (4 x 120) |
| **CABINET MODULE 510** | NATURAL GAS | KIQXX2SO5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| **CABINET MODULE 540** | NATURAL GAS | KIQXX2SO5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| **CABINET MODULE 570** | NATURAL GAS | KIQXX2SO5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| **CABINET MODULE 600** | NATURAL GAS | KIQXX2SO6A | 560,0 | 594,8 | 4 (4 x 150) |
| **CABINET MODULE 630** | NATURAL GAS | KIQXX2SO6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| **CABINET MODULE 660** | NATURAL GAS | KIQXX2SO6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| **CABINET MODULE 690** | NATURAL GAS | KIQXX2SO6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| **CABINET MODULE 720** | NATURAL GAS | KIQXX2SO7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| **CABINET MODULE 750** | NATURAL GAS | KIQXX2SO7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| **CABINET MODULE 780** | NATURAL GAS | KIQXX2SO7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| **CABINET MODULE 810** | NATURAL GAS | KIQXX2SO8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| **CABINET MODULE 870** | NATURAL GAS | KIQXX2SO8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| **CABINET MODULE 900** | NATURAL GAS | KIQXX2SO9A | 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 | KIQXX2SK45 | 40,0 | 41,5 | 1 (1 x 45) |
| CABINET MODULE 60 | NATURAL GAS | KIQXX2SK60 | 60,0 | 62,8 | 1 (1 x 60) |
| CABINET MODULE 85 | NATURAL GAS | KIQXX2SK85 | 81,0 | 84,8 | 1 (1 x 85) |
| CABINET MODULE 90 (**) | NATURAL GAS | KIQXX2SK90 | 80,0 | 83,0 | 2 (2 x 45) |
| CABINET MODULE 105 (**) | NATURAL GAS | KIQXX2SKA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| CABINET MODULE 120 | NATURAL GAS | KIQXX2SK1C | 115,0 | 122,0 | 1 (1 x 120) |
| CABINET MODULE 150 | NATURAL GAS | KIQXX2SK1F | 140,0 | 148,7 | 1 (1 x 150) |
| CABINET MODULE 170 | NATURAL GAS | KIQXX2SK1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| CABINET MODULE 205 | NATURAL GAS | KIQXX2SKA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| CABINET MODULE 240 | NATURAL GAS | KIQXX2SK2E | 230,0 | 244,0 | 2 (2 x 120) |
| CABINET MODULE 270 | NATURAL GAS | KIQXX2SK2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| CABINET MODULE 300 | NATURAL GAS | KIQXX2SK3A | 280,0 | 297,4 | 2 (2 x 150) |
| CABINET MODULE 325 | NATURAL GAS | KIQXX2SKC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| CABINET MODULE 360 | NATURAL GAS | KIQXX2SK3G | 345,0 | 366,0 | 3 (3 x 120) |
| CABINET MODULE 390 | NATURAL GAS | KIQXX2SK3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| CABINET MODULE 420 | NATURAL GAS | KIQXX2SK4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| CABINET MODULE 450 | NATURAL GAS | KIQXX2SK4F | 420,0 | 446,1 | 3 (3 x 150) |
| CABINET MODULE 480 | NATURAL GAS | KIQXX2SK4I | 460,0 | 488,0 | 4 (4 x 120) |
| CABINET MODULE 510 | NATURAL GAS | KIQXX2SK5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| CABINET MODULE 540 | NATURAL GAS | KIQXX2SK5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| CABINET MODULE 570 | NATURAL GAS | KIQXX2SK5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| CABINET MODULE 600 | NATURAL GAS | KIQXX2SK6A | 560,0 | 594,8 | 4 (4 x 150) |
| CABINET MODULE 630 | NATURAL GAS | KIQXX2SK6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| CABINET MODULE 660 | NATURAL GAS | KIQXX2SK6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| CABINET MODULE 690 | NATURAL GAS | KIQXX2SK6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| CABINET MODULE 720 | NATURAL GAS | KIQXX2SK7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| CABINET MODULE 750 | NATURAL GAS | KIQXX2SK7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| CABINET MODULE 780 | NATURAL GAS | KIQXX2SK7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| CABINET MODULE 810 | NATURAL GAS | KIQXX2SK8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| CABINET MODULE 870 | NATURAL GAS | KIQXX2SK8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| CABINET MODULE 900 | NATURAL GAS | KIQXX2SK9A | 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 | KIQXX2SL45 | 40,0 | 41,5 | 1 (1 x 45) |
| CABINET MODULE 60 | NATURAL GAS | KIQXX2SL60 | 60,0 | 62,8 | 1 (1 x 60) |
| CABINET MODULE 85 | NATURAL GAS | KIQXX2SL85 | 81,0 | 84,8 | 1 (1 x 85) |
| CABINET MODULE 90 (**) | NATURAL GAS | KIQXX2SL90 | 80,0 | 83,0 | 2 (2 x 45) |
| CABINET MODULE 105 (**) | NATURAL GAS | KIQXX2SLA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| CABINET MODULE 120 | NATURAL GAS | KIQXX2SL1C | 115,0 | 122,0 | 1 (1 x 120) |
| CABINET MODULE 150 | NATURAL GAS | KIQXX2SL1F | 140,0 | 148,7 | 1 (1 x 150) |
| CABINET MODULE 170 | NATURAL GAS | KIQXX2SL1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| CABINET MODULE 205 | NATURAL GAS | KIQXX2SLA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| CABINET MODULE 240 | NATURAL GAS | KIQXX2SL2E | 230,0 | 244,0 | 2 (2 x 120) |
| CABINET MODULE 270 | NATURAL GAS | KIQXX2SL2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| CABINET MODULE 300 | NATURAL GAS | KIQXX2SL3A | 280,0 | 297,4 | 2 (2 x 150) |
| CABINET MODULE 325 | NATURAL GAS | KIQXX2SLC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| CABINET MODULE 360 | NATURAL GAS | KIQXX2SL3G | 345,0 | 366,0 | 3 (3 x 120) |
| CABINET MODULE 390 | NATURAL GAS | KIQXX2SL3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| CABINET MODULE 420 | NATURAL GAS | KIQXX2SL4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| CABINET MODULE 450 | NATURAL GAS | KIQXX2SL4F | 420,0 | 446,1 | 3 (3 x 150) |
| CABINET MODULE 480 | NATURAL GAS | KIQXX2SL4I | 460,0 | 488,0 | 4 (4 x 120) |
| CABINET MODULE 510 | NATURAL GAS | KIQXX2SL5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| CABINET MODULE 540 | NATURAL GAS | KIQXX2SL5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| CABINET MODULE 570 | NATURAL GAS | KIQXX2SL5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| CABINET MODULE 600 | NATURAL GAS | KIQXX2SL6A | 560,0 | 594,8 | 4 (4 x 150) |
| CABINET MODULE 630 | NATURAL GAS | KIQXX2SL6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| CABINET MODULE 660 | NATURAL GAS | KIQXX2SL6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| CABINET MODULE 690 | NATURAL GAS | KIQXX2SL6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| CABINET MODULE 720 | NATURAL GAS | KIQXX2SL7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| CABINET MODULE 750 | NATURAL GAS | KIQXX2SL7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| CABINET MODULE 780 | NATURAL GAS | KIQXX2SL7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| CABINET MODULE 810 | NATURAL GAS | KIQXX2SL8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| CABINET MODULE 870 | NATURAL GAS | KIQXX2SL8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| CABINET MODULE 900 | NATURAL GAS | KIQXX2SL9A | 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 | KIQXX2SM45 | 40,0 | 41,5 | 1 (1 x 45) |
| CABINET MODULE 60 | NATURAL GAS | KIQXX2SM60 | 60,0 | 62,8 | 1 (1 x 60) |
| CABINET MODULE 85 | NATURAL GAS | KIQXX2SM85 | 81,0 | 84,8 | 1 (1 x 85) |
| CABINET MODULE 90 (**) | NATURAL GAS | KIQXX2SM90 | 80,0 | 83,0 | 2 (2 x 45) |
| CABINET MODULE 105 (**) | NATURAL GAS | KIQXX2SMA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| CABINET MODULE 120 | NATURAL GAS | KIQXX2SM1C | 115,0 | 122,0 | 1 (1 x 120) |
| CABINET MODULE 150 | NATURAL GAS | KIQXX2SM1F | 140,0 | 148,7 | 1 (1 x 150) |
| CABINET MODULE 170 | NATURAL GAS | KIQXX2SM1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| CABINET MODULE 205 | NATURAL GAS | KIQXX2SMA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| CABINET MODULE 240 | NATURAL GAS | KIQXX2SM2E | 230,0 | 244,0 | 2 (2 x 120) |
| CABINET MODULE 270 | NATURAL GAS | KIQXX2SM2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| CABINET MODULE 300 | NATURAL GAS | KIQXX2SM3A | 280,0 | 297,4 | 2 (2 x 150) |
| CABINET MODULE 325 | NATURAL GAS | KIQXX2SMC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| CABINET MODULE 360 | NATURAL GAS | KIQXX2SM3G | 345,0 | 366,0 | 3 (3 x 120) |
| CABINET MODULE 390 | NATURAL GAS | KIQXX2SM3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| CABINET MODULE 420 | NATURAL GAS | KIQXX2SM4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| CABINET MODULE 450 | NATURAL GAS | KIQXX2SM4F | 420,0 | 446,1 | 3 (3 x 150) |
| CABINET MODULE 480 | NATURAL GAS | KIQXX2SM4I | 460,0 | 488,0 | 4 (4 x 120) |
| CABINET MODULE 510 | NATURAL GAS | KIQXX2SM5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| CABINET MODULE 540 | NATURAL GAS | KIQXX2SM5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| CABINET MODULE 570 | NATURAL GAS | KIQXX2SM5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| CABINET MODULE 600 | NATURAL GAS | KIQXX2SM6A | 560,0 | 594,8 | 4 (4 x 150) |
| CABINET MODULE 630 | NATURAL GAS | KIQXX2SM6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| CABINET MODULE 660 | NATURAL GAS | KIQXX2SM6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| CABINET MODULE 690 | NATURAL GAS | KIQXX2SM6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| CABINET MODULE 720 | NATURAL GAS | KIQXX2SM7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| CABINET MODULE 750 | NATURAL GAS | KIQXX2SM7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| CABINET MODULE 780 | NATURAL GAS | KIQXX2SM7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| CABINET MODULE 810 | NATURAL GAS | KIQXX2SM8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| CABINET MODULE 870 | NATURAL GAS | KIQXX2SM8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| CABINET MODULE 900 | NATURAL GAS | KIQXX2SM9A | 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 | KIQXX2SN45 | 40,0 | 41,5 | 1 (1 x 45) |
| CABINET MODULE 60 | NATURAL GAS | KIQXX2SN60 | 60,0 | 62,8 | 1 (1 x 60) |
| CABINET MODULE 85 | NATURAL GAS | KIQXX2SN85 | 81,0 | 84,8 | 1 (1 x 85) |
| CABINET MODULE 90 (**) | NATURAL GAS | KIQXX2SN90 | 80,0 | 83,0 | 2 (2 x 45) |
| CABINET MODULE 105 (**) | NATURAL GAS | KIQXX2SNA1 | 100,0 | 104,3 | 2 (1 x 60 + 1 x 45) |
| CABINET MODULE 120 | NATURAL GAS | KIQXX2SN1C | 115,0 | 122,0 | 1 (1 x 120) |
| CABINET MODULE 150 | NATURAL GAS | KIQXX2SN1F | 140,0 | 148,7 | 1 (1 x 150) |
| CABINET MODULE 170 | NATURAL GAS | KIQXX2SN1H | 162,0 | 169,6 | 2 ( 2 x 85) |
| CABINET MODULE 205 | NATURAL GAS | KIQXX2SNA2 | 196,0 | 206,8 | 2 (1 x 85 + 1 x 120) |
| CABINET MODULE 240 | NATURAL GAS | KIQXX2SN2E | 230,0 | 244,0 | 2 (2 x 120) |
| CABINET MODULE 270 | NATURAL GAS | KIQXX2SN2H | 255,0 | 270,7 | 2 (1 x 120 + 1 x 150) |
| CABINET MODULE 300 | NATURAL GAS | KIQXX2SN3A | 280,0 | 297,4 | 2 (2 x 150) |
| CABINET MODULE 325 | NATURAL GAS | KIQXX2SNC3 | 311,0 | 328,8 | 3 ( 1x 85 + 2 x 120) |
| CABINET MODULE 360 | NATURAL GAS | KIQXX2SN3G | 345,0 | 366,0 | 3 (3 x 120) |
| CABINET MODULE 390 | NATURAL GAS | KIQXX2SN3J | 370,0 | 392,7 | 3 ( 2 x 120 + 1 x 150) |
| CABINET MODULE 420 | NATURAL GAS | KIQXX2SN4C | 395,0 | 419,4 | 3 (1 x 120 + 2 x 150) |
| CABINET MODULE 450 | NATURAL GAS | KIQXX2SN4F | 420,0 | 446,1 | 3 (3 x 150) |
| CABINET MODULE 480 | NATURAL GAS | KIQXX2SN4I | 460,0 | 488,0 | 4 (4 x 120) |
| CABINET MODULE 510 | NATURAL GAS | KIQXX2SN5B | 485,0 | 514,7 | 4 ( 3 x 120 + 1 x 150) |
| CABINET MODULE 540 | NATURAL GAS | KIQXX2SN5E | 510,0 | 541,4 | 4 ( 2 x 120 + 2 x 150) |
| CABINET MODULE 570 | NATURAL GAS | KIQXX2SN5H | 535,0 | 568,1 | 4 (1 x120 + 3 x 150) |
| CABINET MODULE 600 | NATURAL GAS | KIQXX2SN6A | 560,0 | 594,8 | 4 (4 x 150) |
| CABINET MODULE 630 | NATURAL GAS | KIQXX2SN6D | 600,0 | 636,7 | 5 ( 4 x 120 + 1 x 150) |
| CABINET MODULE 660 | NATURAL GAS | KIQXX2SN6G | 625,0 | 663,4 | 5 (3 x 120 + 2 x 150) |
| CABINET MODULE 690 | NATURAL GAS | KIQXX2SN6J | 650,0 | 690,1 | 5 ( 2 x 120 + 3 x 150) |
| CABINET MODULE 720 | NATURAL GAS | KIQXX2SN7C | 675,0 | 716,8 | 5 ( 1 x 120 + 4 x 150) |
| CABINET MODULE 750 | NATURAL GAS | KIQXX2SN7F | 700,0 | 743,5 | 5 ( 5 x 150) |
| CABINET MODULE 780 | NATURAL GAS | KIQXX2SN7I | 740,0 | 785,4 | 6 (4 x 120 + 2 x 150) |
| CABINET MODULE 810 | NATURAL GAS | KIQXX2SN8B | 765,0 | 812,1 | 6 (3x120 + 3 x 150) |
| CABINET MODULE 870 | NATURAL GAS | KIQXX2SN8H | 815,0 | 865,5 | 6 (1 x 120 + 5 x 150) |
| CABINET MODULE 900 | NATURAL GAS | KIQXX2SN9A | 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

# STANDARD BOILERS

## WALL-HUNG BOILERS <35KW



## TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

# FORMENTERA PRO CTN

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

- **Water-cooled hyper-stoichiometric atmospheric gas burner with low NOx emissions**
- **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**
- **Stainless steel 26-plate DHW heat exchanger**
- 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
- High-efficiency circulation pump with built-in air purging device
- Compatible with SPOT smart thermostat

**TOUCH SCREEN INTERFACE**

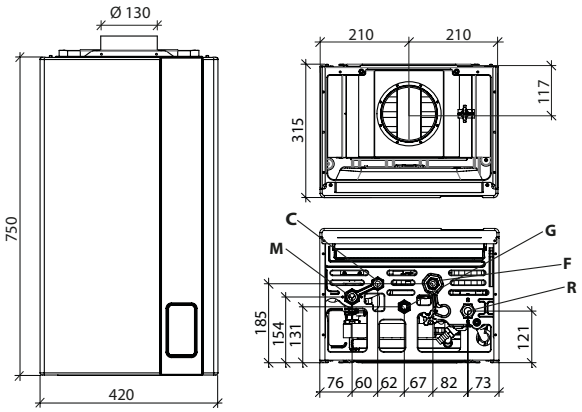
- *DHW and heating temperature setting*
- *Operating mode setting*
- *Solar thermal systems status display*

**Available in the following models:**

24 28

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **PRO CTN 24** | NATURAL GAS | KFNXX2CN24 | 25,5 | 25,5 | C | B XL | 420x750x315 | 35,5 |
| | PROPANE | KFNXX6CN24 | | | | | | |
| **PRO CTN 28** | NATURAL GAS | KFNXX2CN28 | 29,5 | 29,5 | C | B XL | 420x750x315 | 36,0 |
| | PROPANE | KFNXX6CN28 | | | | | | |

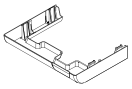
## DIMENSIONS AND CONNECTION CENTRE DISTANCES




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

| Technical data | um | PRO CTN 24 | PRO CTN 28 |
|---|---|---|---|
| Rated output (Pn) | kW | 23 | 27 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 80 | 79 |
| Water heating energy efficiency (ηwh) | % | 76 | 74 |
| Nominal heat input (Qn) | kW | 25,5 | 29,5 |
| Nominal heat output (80-60°C) (Pn) | kW | 23,4 | 26,9 |
| Reduced heat input (Qr) | kW | 10,0 | 12,5 |
| Useful efficiency at nominal input (80-60°C) | % | 91,7 | 91,1 |
| Useful efficiency at 30% (47°C return) | % | 93,9 | 93,2 |
| Heating expansion vessel capacity | l | 7 | 7 |
| DHW nominal heat input | kW | 25,5 | 29,5 |
| Specific DHW flow ΔT=30K | l/min | 11,3 | 12,5 |
| NOx emission class | - | 6 | 6 |
| Electric protection rating | IP | X5D | X5D |

For other technical specifications, see from page 88

| Item | Description | Code |
|---|---|---|
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Pipes and taps low plastic cover | 0COPETUB03 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Flow - return cold water 90° taps kit | 0KITIDBA11 |

| Item | Description | Code |
|---|---|---|
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | Temperature probe for solar plants | PSPTMILL00 |
|  | Magnetic dirt separator filter | 0AFILDEF00 |
|  | Kit for connection to solar plant | 0KITSOLC07 |

For other accessories, see from page 92

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | | |
|---|---|---|---|---|
| Regulation device | | Code | PRO CTN 24 | PRO CTN 28 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 79% | 78% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 80% | 79% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01** + **0CREMOTO04** | 81% | 80% |

# ANTEA PRO CTN

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

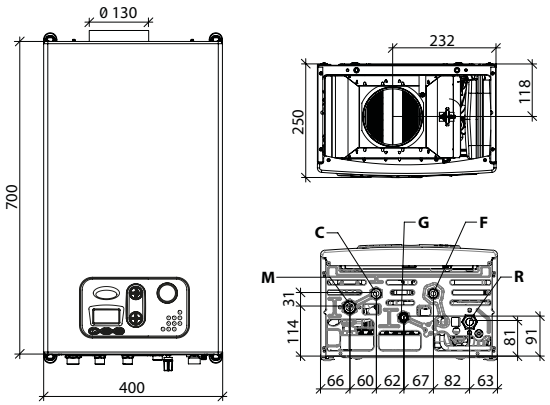
- **Water-cooled hyper-stoichiometric atmospheric gas burner with low NOx emissions**
- **Compact dimension, only 250 mm deep**
- **LCD user interface with diagnostics**
- **Thermoregulation with external probe (optional)**
- **High-efficiency circulation pump with built-in air purging device**
- **Compatible with SPOT smart thermostat**
- Mono-thermal primary heat exchanger
- Heating expansion vessel - 7 litres
- Multifunction relay for connection to systems with zone valves or to external pump management or to remote alarm signal
- Stainless steel plate DHW heat exchanger
- Hydraulic unit in composite material
- Prearrangement for connection to Remote Control (optional, supplied by the manufacturer)
- Automatic by-pass

**Available in the following models:**

24

| Model | Gas type | Code | Heat input | | Energy efficiency class | | W x H x D | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | | Nominal (Qn) kW | Nominal DHW kW | Room heating | Heating DHW | mm | kg |
| **PRO CTN 24** | NATURAL GAS | KAHXX2CN24 | 24,5 | 24,5 | C | B XL | 400x700x250 | 25,5 |
| | PROPANE | KAHXX6CN24 | | | | | | |

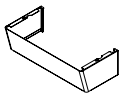
## DIMENSIONS AND CONNECTION CENTRE DISTANCES

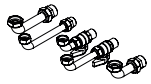
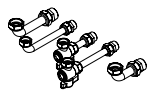



**M** CH system flow (3/4")
**C** DHW outlet (1\2")
**G** Gas inlet (1/2")
**F** Cold water inlet (1/2")
**R** CH system return (3/4")

| Technical data | um | PRO CTN 24 |
|---|---|---|
| Rated output (Pn) | kW | 22 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 80 |
| Water heating energy efficiency (ηwh) | % | 77 |
| Nominal heat input (Qn) | kW | 24,5 |
| Nominal heat output (80-60°C) (Pn) | kW | 22,3 |
| Reduced heat input (Qr) | kW | 12,0 |
| Useful efficiency at nominal input (80-60°C) | % | 91,2 |
| Useful efficiency at 30% (47°C return) | % | 93,2 |
| Heating expansion vessel capacity | l | 7 |
| DHW nominal heat input | kW | 24,5 |
| Specific DHW flow ΔT=30K | l/min | 9,3 |
| NOx emission class | - | 6 |
| Electric protection rating | IP | X4D |

For other technical specifications, see from page 89

| Item | Description | Code |
|---|---|---|
|  | Compact wall pipe cover<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | 0COPETUB00 |
|  | Remote control, ErP V class (118x85x32 mm) | 0CREMOTO04 |
|  | Thermostat starter kit + Spot gateway | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | 0EXPSPOT01 |
|  | Electrical kit for zone management with external probe | 0KITZONE05 |
|  | External probe (60x45x31 mm) | 0SONDAES01 |

| Item | Description | Code |
|---|---|---|
|  | Magnetic dirt separator filter | 0AFILDEF00 |
|  | Basic hydraulic kit | 0KITIDBA29 |
|  | Flow - return cold water 90° taps kit | 0KITIDBA11 |
|  | Plus hydr. kit for basic compact unit | 0KITIDBA14 |
|  | Kit for connection to solar plant | 0KITSOLC07 |

For other accessories, see from page 92

## How to increase energy efficiency?

Discover the most suitable solution

| Seasonal energy efficiency of ambient heating (ηs) | | | |
|---|---|---|---|
| Regulation device | | Code | PRO CTN 24 |
| **Option 1** | Boiler + external probe | **0SONDAES01** | 78% |
| **Option 2** | Boiler + remote control | **0CREMOTO04** | 79% |
| **Option 3** | Boiler+ remote control + external probe | **0SONDAES01**<br>**0CREMOTO04** | 80% |

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

## TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

| Technical data | um | Formentera | Formentera |
|---|---|---|---|
| Model | - | PRO CTN 24 | PRO CTN 28 |
| Type | - | B11BS | B11BS |
| Rated output (Pn) | kW | 23 | 27 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 80 | 79 |
| Seasonal energy efficiency class of ambient heating | - | C | C |
| Stated load profile | - | XL | XL |
| Water heating energy efficiency (ηwh) | % | 76 | 74 |
| Energy efficiency class of water heating | - | B | B |
| Nominal heat input (Qn) | kW | 25,5 | 29,5 |
| Reduced heat input (Qr) | kW | 10,0 | 12,5 |
| Nominal heat output (80-60°C) (Pn) | kW | 23,4 | 26,9 |
| Reduced heat output (80-60°C) (Pr) | kW | 8,8 | 11,2 |
| Useful efficiency at nominal input (80-60°C) | % | 91,7 | 91,1 |
| Useful efficiency at 30% (47°C return) | % | 93,9 | 93,2 |
| 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 | 29,5 |
| DHW minimum heat input | kW | 10,0 | 12,5 |
| DHW nominal heat output (ΔT 30°C) | kW | 23,4 | 26,9 |
| DHW minimum heat output (ΔT 30°C) | kW | 8,8 | 11,2 |
| DHW circuit working pressure (min-max) | bar | 0,5-6,0 | 0,5-6,0 |
| Specific DHW flow ΔT=30K | l/min | 11,3 | 12,5 |
| DHW temperature range | °C | 35-57 | 35-57 |
| DHW maximum working temperature | °C | 62 | 62 |
| NOx emission class | - | 6 | 6 |
| Casing heat loss with burner on at nominal heat input | % | 2,15 | 2,51 |
| Casing heat loss with burner off | % | 0,69 | 065 |
| Chimney heat loss with burner on at nominal heat input | % | 6,19 | 6,44 |
| Air-flue ΔT at nominal heat input | °C | 86 | 93 |
| Flue gas flow at nominal heat input | g/s | 18,9 | 20,1 |
| CO2 at nominal heat input of heating (Natural gas) | % | 5,3 | 5,8 |
| CO2 at nominal heat input of heating (Propane) | % | 6,6 | 6,0 |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 |
| Maximum power consumption | W | 57 | 56 |
| Circulation pump power input | W | 41 | 41 |
| Electric protection rating | IP | X5D | X5D |
| Flue gas discharge pipes diameter | mm | 130 | 130 |

# TECHNICAL SPECIFICATIONS OF STANDARD BOILERS

| Technical data | um | Antea |
|---|---|---|
| Model | - | PRO CTN 24 |
| Type | - | B11BS |
| Rated output (Pn) | kW | 22 |
| Seasonal energy efficiency of ambient heating (ηs) | % | 80 |
| Seasonal energy efficiency class of ambient heating | - | C |
| Stated load profile | - | XL |
| Water heating energy efficiency (ηwh) | % | 77 |
| Energy efficiency class of water heating | - | B |
| Nominal heat input (Qn) | kW | 24,5 |
| Reduced heat input (Qr) | kW | 12,0 |
| Nominal heat output (80-60°C) (Pn) | kW | 22,3 |
| Reduced heat output (80-60°C) (Pr) | kW | 10,8 |
| Useful efficiency at nominal input (80-60°C) | % | 91,2 |
| Useful efficiency at 30% (47°C return) | % | 93,2 |
| Useful efficiency at reduced flow rate (80-60°C) | % | 90,1 |
| 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 | 22,3 |
| DHW minimum heat output (ΔT 30°C) | kW | 10,8 |
| DHW circuit working pressure (min-max) | bar | 0,5-6,0 |
| Specific DHW flow ΔT=30K | l/min | 9,3 |
| 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 | % | 2,97 |
| Casing heat loss with burner off | % | 0,62 |
| Chimney heat loss with burner on at nominal heat input | % | 5,83 |
| Air-flue ΔT at nominal heat input | °C | 82 |
| Flue gas flow at nominal heat input | g/s | 16,7 |
| CO2 at nominal heat input of heating (Natural gas) | % | 5,8 |
| CO2 at nominal heat input of heating (Propane) | % | 6,6 |
| Power supply voltage/frequency | V/Hz | 230/50 |
| Maximum power consumption | W | 57 |
| Circulation pump power input | W | 41 |
| Electric protection rating | IP | X4D |
| Flue gas discharge pipes diameter | mm | 130 |

# FLUE FITTINGS AND ACCESSORIES

## FLUE FITTINGS

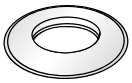


## ACCESSORIES

# DISCHARGE FOR CONDENSING BOILERS TYPE B23

INTAKE AND VENT PIPES Ø 80

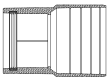
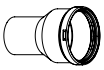
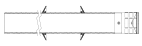
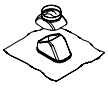



| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 10 |  | Extension M/F Ø80 L=1 m | 0PROLUNG00 |
| 11 |  | Extension M/F Ø80 L=0.5 m | 0PROLUNG01 |
| 13 |  | 90° elbow M/F Ø80 | 0CURVAXX02 |
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 16 |  | Flue vent chimney Ø80 H=138cm | 0CAMISCA00 |
| 18 |  | Flue vent terminal Ø80 L=1m | 0TERMSCA00 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 43 |  | Wall rosette in silicone, ID Ø80 OD Ø170 | 0ROSPASI00 |

# DISCHARGE FOR CONDENSING BOILERS TYPE B23

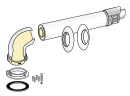
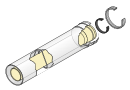
INTAKE AND VENT PIPES Ø 80-60




| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 13 |  | 90° elbow M/F Ø80 | 0CURVAXX02 |
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 16 |  | Flue vent chimney Ø80 H=138cm | 0CAMISCA00 |
| 24 |  | Adapter Ø80/60 | 0RIDUZIO19 |
| 25 |  | Adapter M/F Ø 60-80 M/F | 0RIDUZIO10 |
| 28 |  | 90° elbow Ø60 | 0CURVAXX16 |
| 30 |  | Extension M/F Ø60 L=1m | 0PROLUNG16 |
| 32 |  | Extension M/F Ø60 L=0.5 m | 0PROLUNG18 |
| 36 |  | Flue vent terminal Ø60 L=1m | 0TERMSCA01 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |

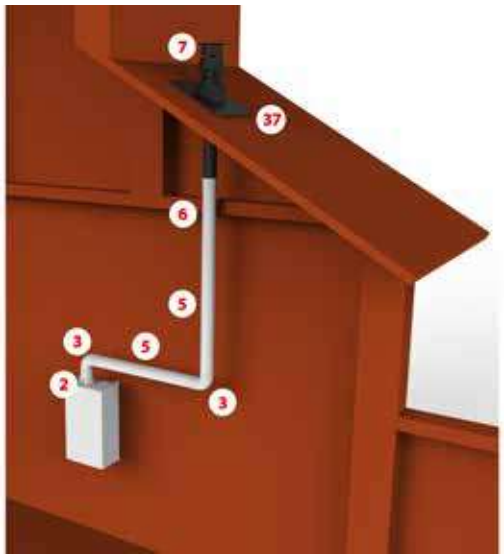
# DISCHARGE FOR CONDENSING BOILERS TYPE C13

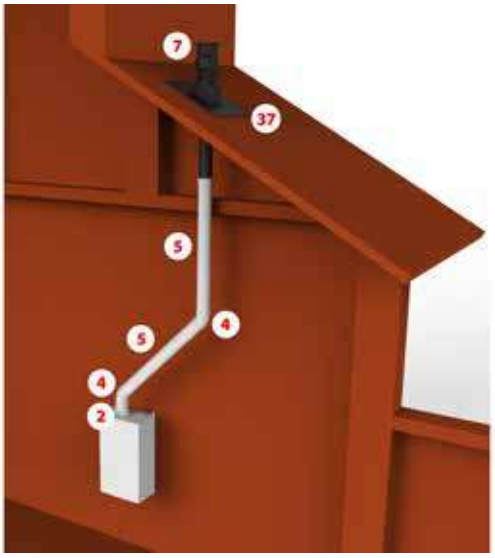
INTAKE AND VENT PIPES Ø 60/100

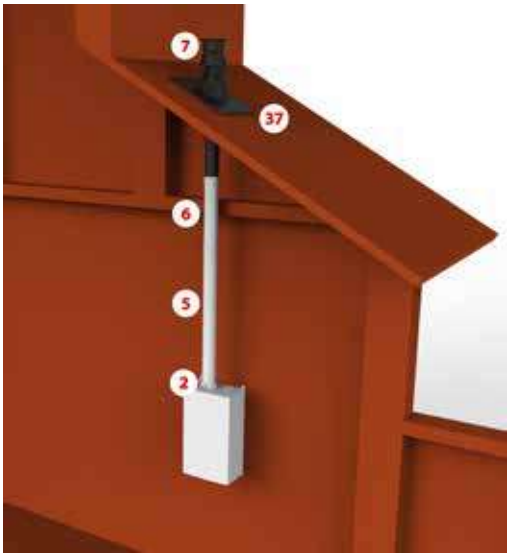

| No. | Item | Description | Code |
|---|---|---|---|
| 01 |  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
| 02 |  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
| 03 |  | 90° elbow M/F coaxial Ø60/100 | 0CURVAXX05 |
| 05 |  | Coaxial extension M/F Ø60/100 L=1m | 0PROLUNG02 |
| 06 |  | Coaxial extension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

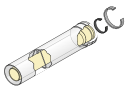
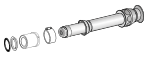
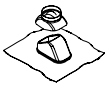

# DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 60/100



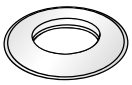




| No. | Item | Description | Code |
|---|---|---|---|
| 02 |  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
| 03 |  | 90° elbow M/F coaxial Ø60/100 | 0CURVAXX05 |
| 04 |  | 45° elbow M/F coaxial Ø60/100 | 0CURVAXX04 |
| 05 |  | Coaxial extension M/F Ø60/100 L=1m | 0PROLUNG02 |
| 06 |  | Coaxial extension 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

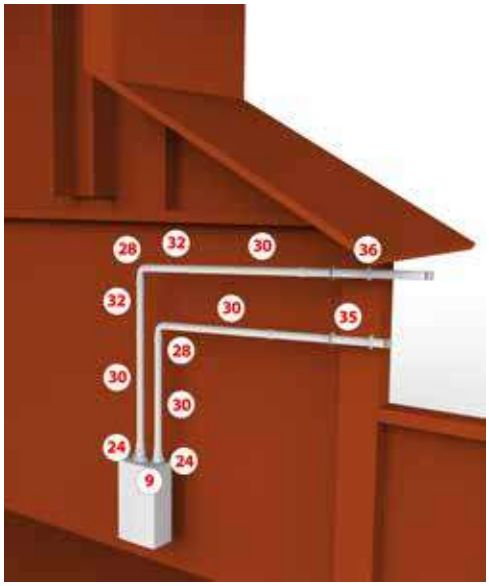


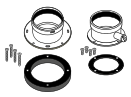
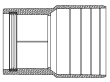
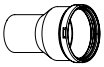
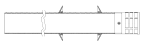
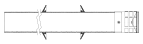
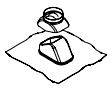

| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 10 |  | Extension M/F Ø80 L=1 m | 0PROLUNG00 |
| 11 |  | Extension M/F Ø80 L=0.5 m | 0PROLUNG01 |
| 13 |  | 90° elbow M/F Ø80 | 0CURVAXX02 |
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 17 |  | Flue gas intake/vent chimney Ø80+80 H=138.4cm | 0CAMIASP00 |
| 18 |  | Flue vent terminal Ø80 L=1m | 0TERMSCA00 |
| 19 |  | Tee kit for visual inspection and collecting condensate Ø80 | 0KITRACT00 |
| 23 |  | Tee M/M/F Ø80 | 0RACCORT00 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 43 |  | Wall rosette in silicone, ID Ø80 OD Ø170 | 0ROSPASI00 |

# DISCHARGE FOR CONDENSING BOILERS TYPE C33

INTAKE AND VENT PIPES Ø 60

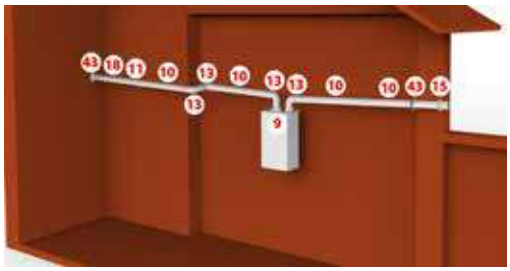


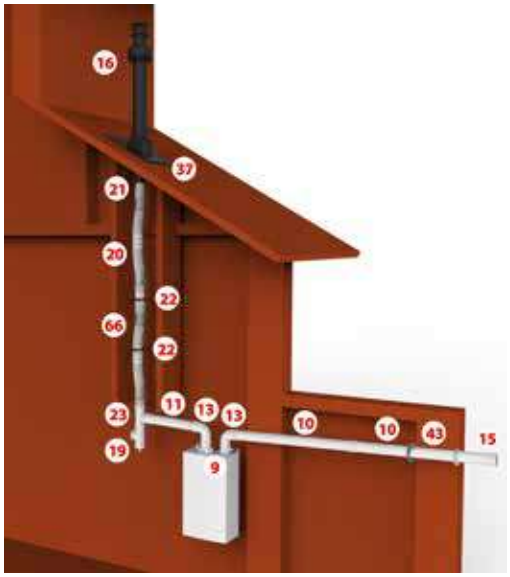



| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 17 |  | Flue gas intake/vent chimney Ø80+80 H=138.4cm | 0CAMIASP00 |
| 24 |  | Adapter Ø80/60 | 0RIDUZIO19 |
| 25 |  | Adapter M/F Ø 60-80 M/F | 0RIDUZIO10 |
| 28 |  | 90° elbow Ø60 | 0CURVAXX16 |
| 30 |  | Extension M/F Ø60 L=1m | 0PROLUNG16 |
| 31 |  | Extension M/F Ø60 L=2 m | 0PROLUNG17 |
| 32 |  | Extension M/F Ø60 L=0.5 m | 0PROLUNG18 |
| 33 |  | Tee M/M/F Ø60 | 0RACCORT06 |
| 34 |  | Condensate drain Ø60 | 0SCARCON03 |
| 35 |  | Air intake terminal Ø60 L=1m | 0TERMASP01 |
| 36 |  | Flue vent terminal Ø60 L=1m | 0TERMSCA01 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |

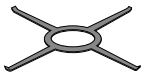
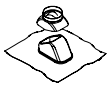
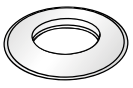
# DISCHARGE FOR CONDENSING BOILERS TYPE C53

INTAKE AND VENT PIPES Ø 80



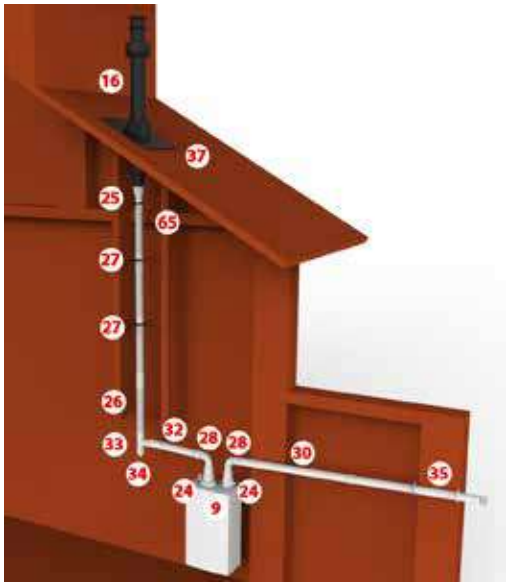


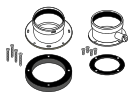
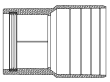
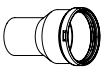
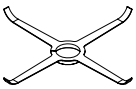
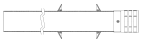
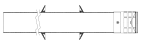
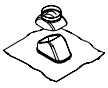
| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 10 |  | Extension M/F Ø80 L=1 m | 0PROLUNG00 |
| 11 |  | Extension M/F Ø80 L=0.5 m | 0PROLUNG01 |
| 13 |  | 90° elbow M/F Ø80 | 0CURVAXX02 |
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 16 |  | Flue vent chimney Ø80 H=138cm | 0CAMISCA00 |
| 18 |  | Flue vent terminal Ø80 L=1m | 0TERMSCA00 |
| 19 |  | Tee kit for visual inspection and collecting condensate Ø80 | 0KITRACT00 |
| 20 |  | Kit of adapters for flexible hose Ø80 (included gaskets) | 0KADAFLE00 |
| 22 |  | Centring element for flexible hose Ø80 | 0CENTFLE00 |
| 23 |  | Tee M/M/F Ø80 | 0RACCORT00 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 43 |  | Wall rosette in silicone, ID Ø80 OD Ø170 | 0ROSPASI00 |
| 66 |  | Flexible pipe M/F Ø80 (20m roll) | 0TUBOFLE06 |

# DISCHARGE FOR CONDENSING BOILERS TYPE C53

INTAKE AND VENT PIPES Ø 60



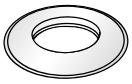



| No. | Item | Description | Code |
|---|---|---|---|
| 09 |  | Splitter kit Ø80+80 | 0KITSDOP08 |
| 16 |  | Flue vent chimney Ø80 H=138cm | 0CAMISCA00 |
| 24 |  | Adapter Ø80/60 | 0RIDUZIO19 |
| 25 |  | Adapter M/F Ø 60-80 M/F | 0RIDUZIO10 |
| 26 |  | Kit of adapters for flexible hose Ø60 | 0KADAFLE01 |
| 27 |  | Centring element for flexible hose Ø60 | 0CENTFLE02 |
| 28 |  | 90° elbow Ø60 | 0CURVAXX16 |
| 30 |  | Extension M/F Ø60 L=1m | 0PROLUNG16 |
| 31 |  | Extension M/F Ø60 L=2 m | 0PROLUNG17 |
| 32 |  | Extension M/F Ø60 L=0.5 m | 0PROLUNG18 |
| 33 |  | Tee M/M/F Ø60 | 0RACCORT06 |
| 34 |  | Condensate drain Ø60 | 0SCARCON03 |
| 35 |  | Air intake terminal Ø60 L=1m | 0TERMASP01 |
| 36 |  | Flue vent terminal Ø60 L=1m | 0TERMSCA01 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 65 |  | Flexible pipe M/F Ø60 (20m roll) | 0TUBOFLE07 |

# DISCHARGE FOR STANDARD BOILERS TYPE B22

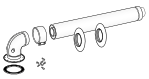
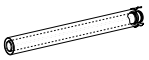
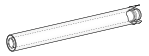
INTAKE AND VENT PIPES Ø 80



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

# DISCHARGE FOR STANDARD BOILERS TYPE C12

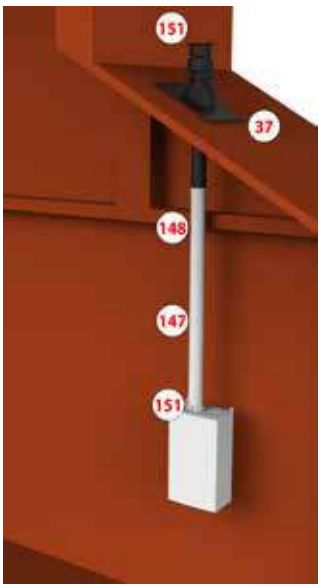
INTAKE AND VENT PIPES Ø 60/100

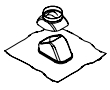
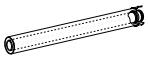
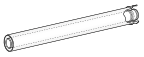
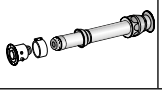

| No. | Item | Description | Code |
|---|---|---|---|
| 140 |  | Coaxial kit D60/100 L=1m (for boiler TFS) | 0KITCONC00 |
| 147 |  | Concentric pipe length 1m D60/100 (for TFS boilers) | 0TUBCOLU00 |
| 148 |  | Concentric pipe length 0.5m D60/100 (for TFS boilers) | 0TUBCOLU01 |

# DISCHARGE FOR STANDARD BOILERS TYPE C32

INTAKE AND VENT PIPES Ø 60/100



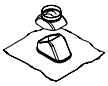
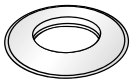



| No. | Item | Description | Code |
|---|---|---|---|
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 78 |  | Elbow 90° coaxial Ø100/60 (for boilers TFS) | 0CURVCON00 |
| 79 |  | Elbow 45° coaxial Ø100/60 (for boilers TFS) | 0CURVCON01 |
| 147 |  | Concentric pipe length 1m D60/100 (for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

# DISCHARGE FOR STANDARD BOILERS TYPE C32

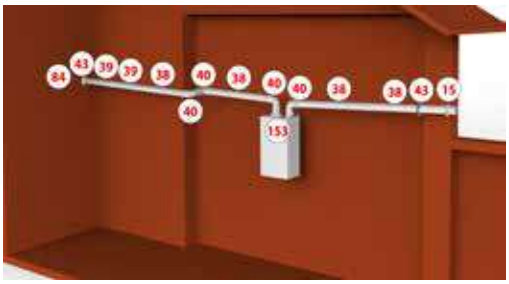
INTAKE AND VENT PIPES Ø 80



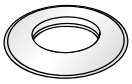

| No. | Item | Description | Code |
|---|---|---|---|
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 38 |  | Extension Ø80 L= 1m | 0CONDOTT00 |
| 39 |  | Ø80 pipe L= 0.5m (for TFS boilers) | 0CONDOTT01 |
| 40A |  | Elbow 90° Ø80 broad beam |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

# DISCHARGE FOR STANDARD BOILERS TYPE C52

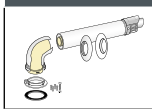
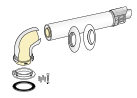
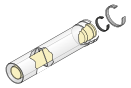
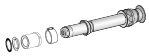
INTAKE AND VENT PIPES Ø 80

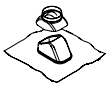




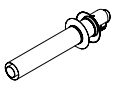
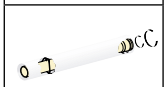
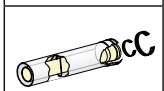
| No. | Item | Description | Code |
|---|---|---|---|
| 15 |  | Suction opening Ø80 | 0GRIGASP01 |
| 37 |  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
| 38 |  | Extension Ø80 L= 1m | 0CONDOTT00 |
| 39 |  | Ø80 pipe L= 0.5m (for TFS boilers) | 0CONDOTT01 |
| 40A |  | Elbow 90° Ø80 broad beam |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

# CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 60/100

| Item | Description | Code |
|---|---|---|
|  | Coaxial kit Ø 60/100 length 75cm | 0CONDASP00 |
|  | Plastic coaxial kit Ø60/100 length 75 cm | 0CONDASP02 |
|  | Coaxial fitting kit Ø60/100 | 0KITATCO00 |
|  | 90° elbow M/F coaxial Ø60/100 | 0CURVAXX05 |
|  | 45° elbow M/F coaxial Ø60/100 | 0CURVAXX04 |
|  | Coaxial extension M/F Ø60/100 L=1m | 0PROLUNG02 |
|  | Coaxial extension M/F Ø60/100 L=0.5m | 0PROLUNG03 |
|  | Coaxial flue kit Ø60/100 | 0KCAMASP00 |

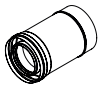
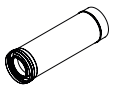
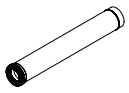
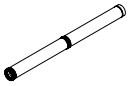
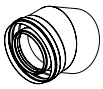
| Item | Description | Code |
|---|---|---|
|  | Elbow 90° and flange kit Ø60/100 | 0KCURFLA00 |
|  | Tile for tilted roof (flue output) | 0TEGTEIN00 |
|  | Sealing collar kit D 100 | 0KCOLLBL00 |
|  | Concentric terminal 60/100 | 0TERMCON01 |
|  | Starting flange kit for condensing boilers | 0KITFLAN00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

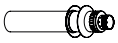
# CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 80/125

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

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

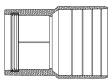
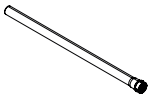
# CONCENTRIC FLUE FITTINGS FOR CONDENSING BOILERS Ø 100/150

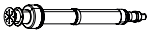
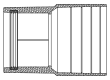
| Item | Description | Code |
|---|---|---|
|  | 150 / 100 concentric starter fitting kit | 0ATTCOFL00 |
|  | 100/150 coax. extension M/F L=250 | 0PROLUNG20 |
|  | 100/150 coax. extension M/F L=500 | 0PROLUNG21 |
|  | 100/150 coax. extension M/F L=1000 | 0PROLUNG22 |
|  | 100/150 coax. extension M/F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

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

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

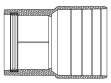
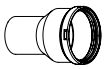
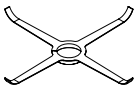
# SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 50

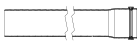
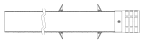
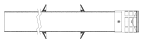
| Item | Description | Code |
|---|---|---|
|  | Adapter M/F Ø80/50 | 0RIDUZIO32 |
|  | Extention M/F Ø50 L=1m (*) | 0PROLUNG32 |
|  | 90° elbow Ø50 (*) | 0CURVAXX33 |
|  | 45° elbow Ø50 (*) | 0CURVAXX34 |
|  | Air intake terminal Ø50 L=1m (*) | 0TERMASP02 |
|  | Flue vent terminal Ø50 L=0,36m (*) |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

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

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

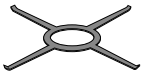
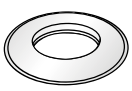
# SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 60

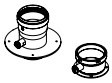
| Item | Description | Code |
|---|---|---|
|  | Adapter Ø80/60 | 0RIDUZIO19 |
|  | Adapter M/F Ø 60-80 M/F | 0RIDUZIO10 |
|  | Flexible pipe M/F Ø60 (20m roll) | 0TUBOFLE07 |
|  | Kit of adapters for flexible hose Ø60 | 0KADAFLE01 |
|  | Centring element for flexible hose Ø60 | 0CENTFLE02 |
|  | 90°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

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

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

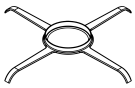
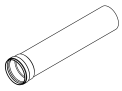
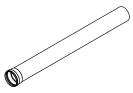
# SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 80

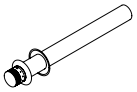
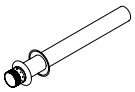
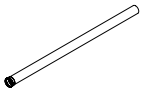
| Item | Description | Code |
|---|---|---|
|  | Splitter kit Ø80+80 | 0KITSDOP08 |
|  | Telescopic extension M/F Ø80 (0.34-0.45m) | 0PROLTEL01 |
|  | 45° elbow M/F Ø80 | 0CURVAXX01 |
|  | Suction opening Ø80 | 0GRIGASP01 |
|  | Flue vent chimney Ø80 H=138cm | 0CAMISCA00 |
|  | Flue gas intake/vent chimney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

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

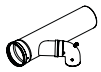
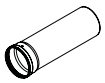
(*) Items normally not in stock, minimum stock availability time 8 weeks.

# SPLIT FLUE FITTINGS FOR CONDENSING BOILERS Ø 100

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

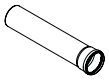
| Item | Description | Code |
|---|---|---|
|  | Roof terminal Ø100 | 0TERCOIN01 |
|  | Air intake terminal Ø100 L=1m | 0TERMASP00 |
|  | Flue vent terminal Ø100 L=1m | 0TERMSCA03 |
|  | Vertical stub pipe with inspection M/F Ø100 L=140mm | 0TROSCAF01 |
|  | Flexible pipe M/F Ø100 (without seals, 20m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

# FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 160

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

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

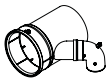
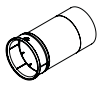
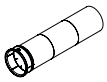
# FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 200

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

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

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

# FITTINGS FOR MODULES FLUE GAS COLLECTORS Ø 250

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

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

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

# ACCESSORIES

## THERMOREGULATION AND ELECTRONIC

| Item | Description | ANTEA KC | ANTEA KR | ANTEA KRB | ANTEA NEXT KC | ANTEA NEXT KR | ANTEA NEXT KRB | FORMENTERA KC | FORMENTERA KR | FORMENTERA KRB | GIAVA KRB | ITACA CH KR | ITACA KC | ITACA KR | ITACA KRB | ITACA KB | TENERIFE KC | ANTEA PRO CTN | FORMENTERA PRO CTN | Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Thermostat starter kit + Spot gateway | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | 0SPOTAPP01 |
|  | Zone expansion for Spot thermostat | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | 0EXPSPOT01 |
|  | 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 |
|  | 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 |

# ACCESSORIES

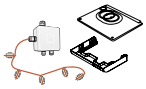
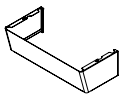
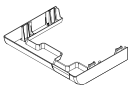
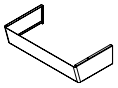
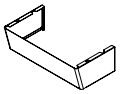
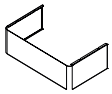
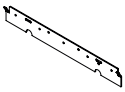
## THERMOREGULATION AND ELECTRONIC

| Item | Description | ANTEA KC | ANTEA KR | ANTEA KRB | ANTEA NEXT KC | ANTEA NEXT KR | ANTEA NEXT KRB | FORMENTERA KC | FORMENTERA KR | FORMENTERA KRB | GIAVA KRB | ITACA CH KR | ITACA KC | ITACA KR | ITACA KRB | ITACA KB | TENERIFE KC | ANTEA PRO CTN | FORMENTERA PRO CTN | Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Kit Modbus Itaca CH | | | | | | | | | | | ● | | | | | | | | 0KMODBUS00 |
|  | NTC probe kit for 10k beta 3977 circuit breaker (*) | | | | ● | ● | ● | | | | | | | | | | | | | 0KITSOND01 |
|  | PT 1000 probe kit with ring connection (*) | | | | ● | ● | ● | | | | | | | | | | | | | 0KITSOPT00 |

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

# ACCESSORIES

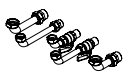
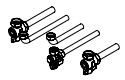
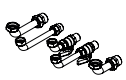
## OUTDOOR INSTALLATION PARTIALLY PROTECTED AND OPTIONAL ACCESSORIES

| Item | Description | ANTEA KC | ANTEA KR | ANTEA KRB | ANTEA NEXT KC | ANTEA NEXT KR | ANTEA NEXT KRB | FORMENTERA KC | FORMENTERA KR | FORMENTERA KRB | ITACA KC | ITACA KR | ITACA KRB | ITACA KB | TENERIFE KC | ANTEA PRO CTN | FORMENTERA PRO CTN | 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<br>- Height 110 mm<br>- Width 400 mm<br>- Depth (upper part) 194 mm<br>- Depth (lower part) 165 mm | ● | ● | ● | | | | | | | | | | | ● | ● | | 0COPETUB00 |
|  | Pipes and taps low plastic cover | | | | | | | ● | ● | ● | ● | ● | ● | | | | ● | 0COPETUB03 |
|  | Pipes and taps cover | | | | | | | | | | | | | ● | | | | 0COPETUB05 |
|  | Pipes and taps high metal cover | | | | | | | ● | ● | ● | ● | ● | ● | | | | ● | 0COPETUB07 |
|  | Covering pipes and boiler taps Next (*) | | | | ● | ● | ● | | | | | | | | | | | 0COPETUB08 |
|  | Basic compact install. metal template | ● | ● | ● | | | | | | | | | | | | ● | | 0DIMMECO10 |
|  | Metal fixing template | | | | | | | ● | ● | ● | ● | ● | ● | | | | ● | 0DIMMECO11 |
|  | Metal template for KB boiler | | | | | | | | | | | | | ● | | | | 0DIMMECO12 |
|  | Wall spacing kit | ● | ● | ● | | | | ● | ● | ● | ● | ● | ● | | ● | ● | ● | 0DISTANZ00 |
|  | Frame for built-in installation (only for standard and V versions) | | | | | | | | | | | | | | | | | 0TELAINC06 |
|  | Wall mounting bracket for compact boiler | ● | ● | ● | | | | | | | | | | | | ● | | 0KSTASOS00 |

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

# ACCESSORIES

## HYDRAULIC

| Item | Description | ANTEA KC | ANTEA KR | ANTEA KRB | ANTEA NEXT KC | ANTEA NEXT KR | ANTEA NEXT KRB | FORMENTERA KC | FORMENTERA KR | FORMENTERA KRB | GIAVA KRB | ITACA CH KR | ITACA KC | ITACA KR | ITACA KRB | ITACA KB | TENERIFE KC | ANTEA PRO CTN | FORMENTERA PRO CTN | Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Magnetic dirt separator filter | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | 0AFILDEF00 |
|  | Condensate neutralizer kit (Pmax 350 kw) | | | | | | | | | | | ● | | | | | | | | 0FILNECO01 |
|  | Condensate neutralizer kit (Pmax 85 kw) | | | | | | | | | | | ● | | | | | | | | 0FILNECO03 |
|  | 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 |
|  | Giava recirculation optional kit | | | | | | | | | | ● | | | | | | | | | 0KRICIRC00 |
|  | Filter refill Pmax 350kW<br>- QTY 1 for Outputs up to 350 kW<br>- QTY 2 for Outputs up to 700 kW<br>- QTY 3 for Outputs up to 900 kW | | | | | | | | | | | ● | | | | | | | | 0RICAFIL01 |
|  | Filter refill | | | | | | | | | | | ● | | | | | | | | 0RICAFIL03 |
|  | Basic hydraulic kit | | | | | | | | | | | | | | | | | ● | | 0KITIDBA29 |
|  | Basic solar kit | ● | | | ● | | | ● | | | | | ● | | | | ● | ● | ● | 0KITSOLC09 |
|  | Gas and water cock kit | ● | ● | ● | | | | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | 0KITRUBI01 |
|  | Boiler hydraulic kit | ● | | | | | | ● | | | | | ● | | | | ● | ● | ● | 0KITIDBA22 |
|  | Spare coated SS hose kit. N°2x3 ¾" L=0.260m - n° 3x½" L=0.520m | ● | ● | ● | | | | ● | | | | | ● | ● | ● | ● | ● | ● | ● | 0KITIDTR00 |
|  | Basic hydraulic kit Next boilers | | | | ● | ● | ● | | | | | | | | | | | | | 0KITIDBA30 |

# SOLAR THERMAL PRODUCTS

## COLLECTORS



## SYSTEMS



## ACCESSORIES

# SOLAR COLLECTORS HWF 20 - HWF 26

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

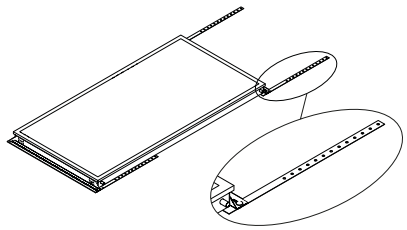
- **High-efficiency aluminium absorber**
- **Copper piping**
- **Laser welding**
- **Aluminium tank-frame**
- **Rock wool insulation with a thickness of 40 mm**
- Tempered clear glass with low iron content
- Possibility to connect up to 8 collectors in series
- Suitable for installation in the vertical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

| Data | um | HWF 20 | HWF 26 |
|---|---|---|---|
| Total gross surface | m² | 2,06 | 2,62 |
| Absorber surface | m² | 1,93 | 2,47 |
| Absorbance | % | 95 | 95 |
| Emission | % | 5 | 5 |
| Glass transmittancy | % | 91 | 91 |
| Liquid content | litres | 0,9 | 1,14 |
| Maximum operating pressure | bar | 10 | 10 |
| Net weight | kg | 32,2 | 39,3 |
| Stagnation temperature | °C | 201 | 201 |
| Opening surface | m² | 1,93 | 2,47 |
| η0 | - | 0,75 | 0,75 |
| α1 | W/(m²K) | 3,17 | 3,17 |
| α2 | W/(m²K²) | 0,012 | 0,012 |
| IAM (K 50°) | - | 0,95 | 0,95 |
| External dimensions HC 25 (W x H x D) | mm | 2022x1019x90 | 2022x1295x90 |
| Code | - | PSHWF20000 | PSHWF26000 |

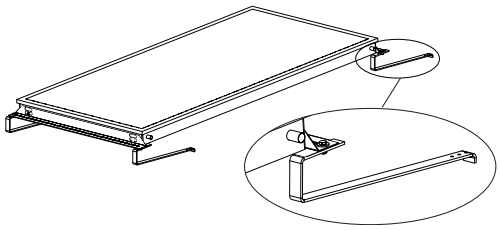
Package includes: collectors.

| Description | Code |
|---|---|
| Viton seals (10 pieces) **(*)** | PSGUAHWF00 |
| Collector connection kit | PSKITHWF00 |
| Joining kit for two collectors | PSKITHWF01 |

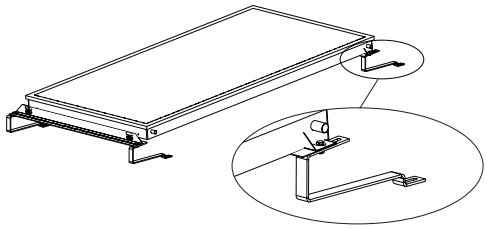
(*) Product available while stocks last



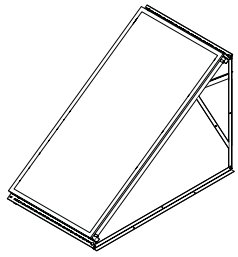
| Description | Collector | Code |
|---|---|---|
| Single collector fixing kit, for installation on the roof | HWF 20 | PSKMHWF206 |
| | HWF26 | PSKMVL2506 |



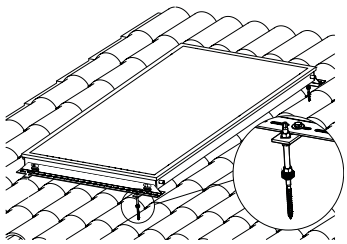
| Description | Collector | Code |
|---|---|---|
| Single collector fixing kit, brackets for roofs with wood-blocks | HWF 20 | PSKMHWF207 |
| | HWF26 | PSKMVL2507 |



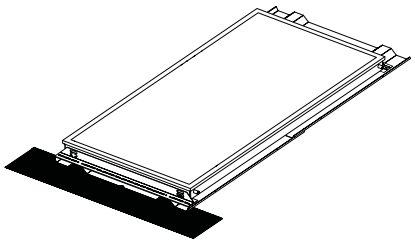
| Description | Collector | Code |
|---|---|---|
| Single collector fixing kit, brackets for roofs without wood-blocks | HWF 20 | PSKMHWF208 |
| | HWF26 | PSKMVL2508 |



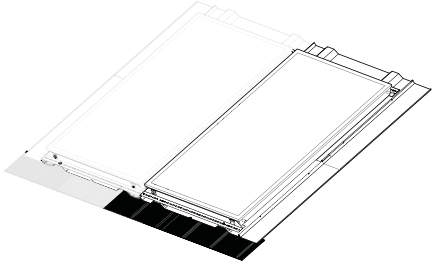
| Description | Collector | Code |
|---|---|---|
| Single collector fixing kit, installation on roof with an inclination of 35° | HWF 20 | PSKMHWF209 |
| | HWF26 | PSKMVL2509 |



| Description | Collector | Code |
|---|---|---|
| Single manifold mounting kit, with screws | HWF 20 | PSKMHWF210 |
| | HWF26 | PSKMVL2510 |



| Description | Collector | Code |
|---|---|---|
| Single manifold built-in kit | HWF 20 | PSKITCOP10 |
| | HWF26 | PSKITCOP08 |



| Description | Collector | Code |
|---|---|---|
| Additional manifold built-in kit | HWF 20 | PSKITCOP11 |
| | HWF26 | PSKITCOP09 |

# SULPACK EVO

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

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

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

| Technical data | um | HWF 20 - 200 | PLUS HWF 20 - 200 | HWF 20 - 300 | HWF 26 - 200 | HWF 26 - 300 |
|---|---|---|---|---|---|---|
| Orientation | - | Vertical | | | | |
| Collectors | num. | 1 | 2 | 2 | 1 | 2 |
| Model | - | HWF 20 | | | HWF 26 | |
| 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 |
| Usable tank volume [Vu] | l | 196 | 196 | 273 | 196 | 273 |
| Tank dispersion [S] | W | 51 | 51 | 63 | 51 | 63 |
| Back up vol. [Vbu] | l | 67 | 67 | 85 | 67 | 85 |
| Solar unit | - | 2 ways | | | | |
| Qnonsol (M) | kWh | 855 | 632 | 681 | 749 | 673 |
| Qnonsol (L) | kWh | 1851 | 1231 | 1245 | 1640 | 1058 |
| Qnonsol (XL) | kWh | 3331 | 2445 | 2431 | 3055 | 2079 |
| Qnonsol (XXL) | kWh | 4472 | 3469 | 3443 | 4169 | 3011 |
| Solar pump consumption [solpump] | W | 45 | | | | |
| Qaux | kWh | 91 | | | | |
| Standby consumption [solsb] | W | 0,08 | | | | |
| Expansion vessel | - | ES 18 | | | | |
| Propylene glycol to be mixed | kg | 10 | | | | |
| Code | - | PSPACKEV05 | PSPACKEV07 | PSPACKEV06 | PSPACKEV08 | PSPACKEV09 |

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 data | um | HWF 20 - 200 | HWF 20 - 300 | HWF 20 - 500 | HWF 26 - 200 | HWF 26 - 300 | HWF 26 - 500 |
|---|---|---|---|---|---|---|---|
| Orientation | - | Vertical | | | | | |
| Collectors | num. | 1 | 2 | 3 | 1 | 2 | 3 |
| Model | - | HWF 20 | | | HWF 26 | | |
| hot water storage tank | - | WHPS BNF 200 DS | WHPS BNF 300 DS | WHPS BNF 500 DS | WHPS BNF 200 DS | WHPS BNF 300 DS | WHPS BNF 500 DS |
| hot water storage tank energy efficiency class | - | C | C | C | C | C | C |
| Usable tank volume [Vu] | l | 196 | 273 | 475 | 196 | 273 | 475 |
| Tank dispersion [S] | W | 67 | 85 | 112 | 67 | 85 | 112 |
| Back up vol. [Vbu] | l | 67 | 85 | 130 | 67 | 85 | 130 |
| Solar unit | - | 2 ways | | | | | |
| Qnonsol (M) | kWh | 940 | 827 | 972 | 844 | 820 | 974 |
| Qnonsol (L) | kWh | 1916 | 1370 | 1188 | 1714 | 1193 | 1150 |
| Qnonsol (XL) | kWh | 3383 | 2531 | 1990 | 3114 | 2192 | 1691 |
| Qnonsol (XXL) | kWh | 4518 | 3531 | 2804 | 4220 | 3111 | 2374 |
| Solar pump consumption [solpump] | W | 45 | | | | | |
| Qaux | kWh | 91 | | | | | |
| Standby consumption [solsb] | W | 0,08 | | | | | |
| Expansion vessel | - | ES 12 | ES 18 | ES 25 | ES12 | ES 18 | ES 25 |
| Additional tank | - | RS 5 | RS 5 | RS 8 | RS5 | RS5 | RS 8 |
| Propylene glycol to be mixed | kg | 10 | | | | | |
| Code | - | PSPACKEX06 | PSPACKEX07 | PSPACKEX08 | PSPACKEX09 | PSPACKEX10 | PSPACKEX11 |

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 data | - | HWF 20 - 200 | HWF 20 - 300 | HWF 20 - 500 | HWF 26 - 200 | HWF 26 - 300 | HWF 26 - 500 |
|---|---|---|---|---|---|---|---|
| Orientation | - | Vertical | | | | | |
| Collectors | num. | 1 | 2 | 3 | 1 | 2 | 3 |
| Model | - | HWF 20 | | | HWF 26 | | |
| hot water storage tank | - | WHPS BNF 200 SS | WHPS BNF 300 SS | WHPS BNF 500 SS | WHPS BNF 200 SS | WHPS BNF 300 SS | WHPS BNF 500 SS |
| hot water storage tank energy efficiency class | - | C | C | C | C | C | C |
| Usable tank volume [Vu] | l | 196 | 273 | 475 | 196 | 273 | 475 |
| Tank dispersion [S] | W | 67 | 85 | 112 | 67 | 85 | 112 |
| Solar unit | - | 1 way | | | | | |
| Qnonsol (M) | kWh | 849 | 778 | 930 | 772 | 774 | 932 |
| Qnonsol (L) | kWh | 1775 | 1277 | 1132 | 1591 | 1119 | 1099 |
| Qnonsol (XL) | kWh | 3212 | 2391 | 1884 | 2956 | 2072 | 1607 |
| Qnonsol (XXL) | kWh | 4335 | 3368 | 2668 | 4048 | 2966 | 2261 |
| Solar pump consumption [solpump] | W | 45 | | | | | |
| Qaux | kWh | 91 | | | | | |
| Standby consumption [solsb] | W | 0,08 | | | | | |
| Expansion vessel | - | ES 12 | ES 18 | ES 25 | ES 12 | ES 18 | ES 25 |
| Propylene glycol to be mixed | kg | 10 | | | | | |
| Code | - | PSPACKEY06 | PSPACKEY07 | PSPACKEY08 | PSPACKEY19 | PSPACKEY20 | PSPACKEY21 |

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 132

# SULPACK NATURAL PLUS

NATURAL CIRCULATION SOLAR SYSTEM

- **Solar collectors**
- **Glazed hot water storage tank**
- **Fastening system for tilted roof**
- **Hydraulic connection accessories**
- **1500W auxiliary electric resistance supplied as standard, adjustable by means of a thermostat**
- 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 data | um | 150 | 200 | 300 |
|---|---|---|---|---|
| Collectors | num. | 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 | W/(m²K) | 3,930 | | |
| α2 | W/(m²K²) | 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 | W | 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 |
| Electric resistance (as standard) | W | 1500 | 1500 | 1500 |
| 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 | - | PSPACTER09 | PSPACTER10 | PSPACTER11 |

| Description | Code |
|---|---|
| Supplementary kit for flat roofs, mod. 150 | PSKITPAC03 |
| Supplementary kit for flat roofs, mod. 200 | PSKITPAC04 |

| Description | Code |
|---|---|
| Supplementary kit for flat roofs, mod. 300 | PSKITPAC05 |
| Sulpack natural plus pressure-temperature safety valve | PSVALSIC00 |

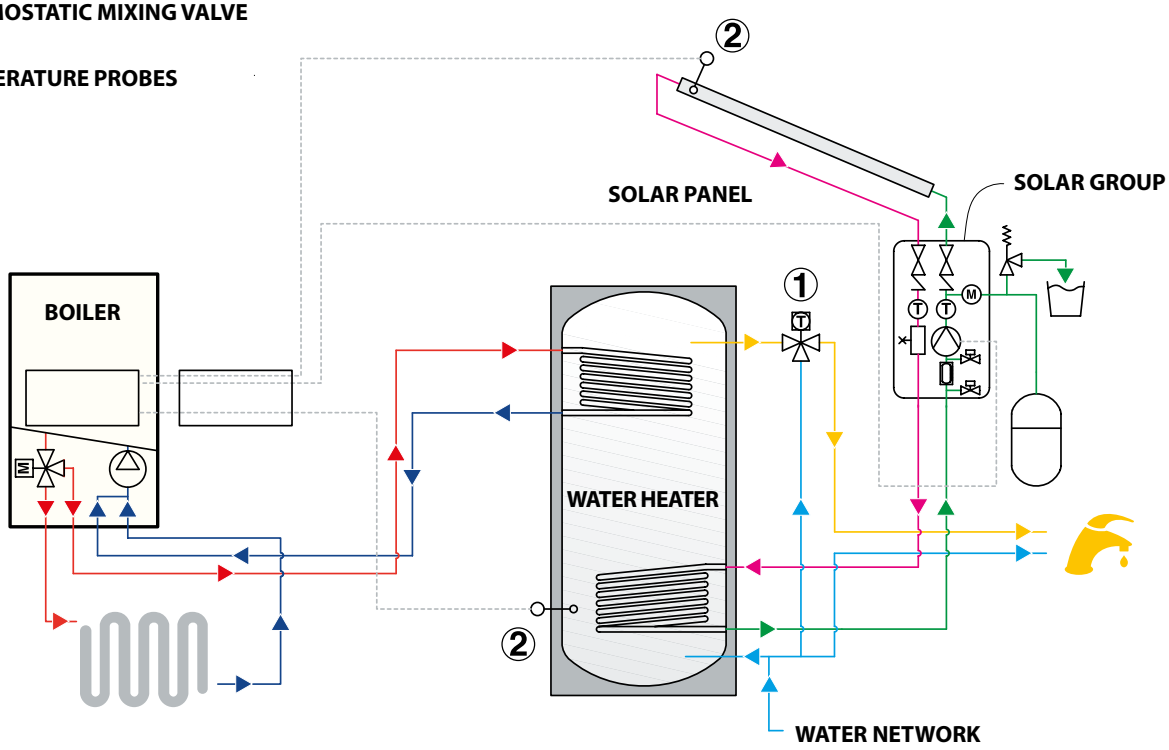
It can be combined with the following models: ITACA KC - FORMENTERA KC - ANTEA KC - ANTEA PRO CTN - FORMENTERA PRO CTN

## EXAMPLES

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

① THERMOSTATIC MIXING VALVE

② TEMPERATURE PROBES

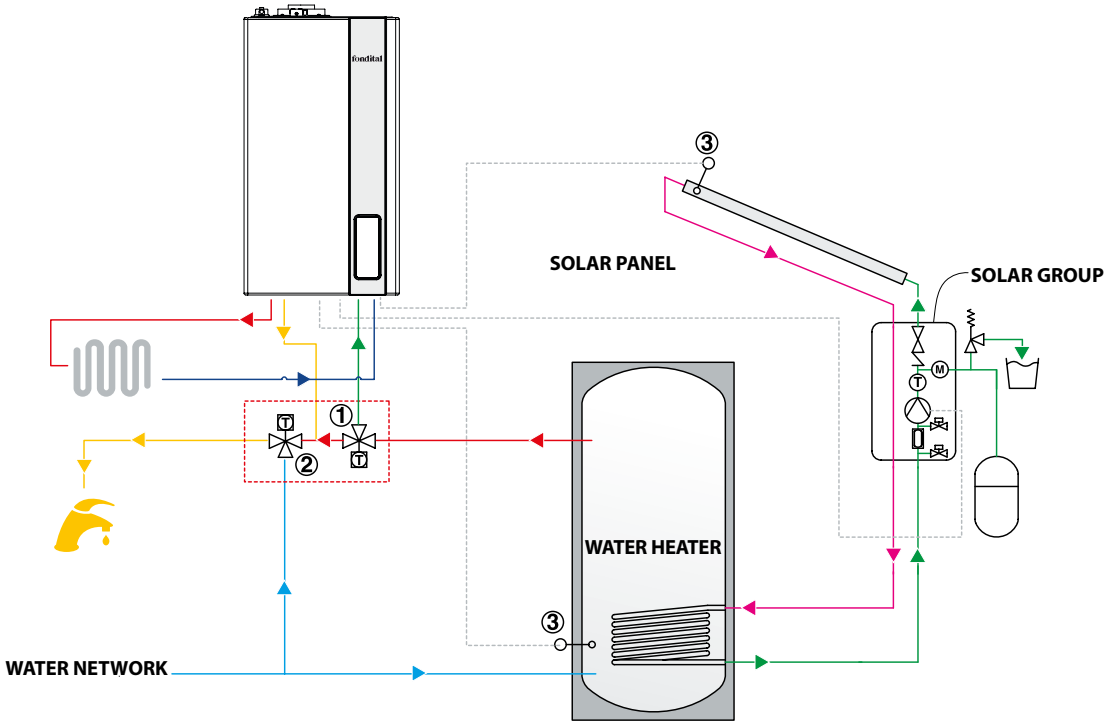



### Connection to combination instantaneous boiler
### **Sulpack Easy**

① THERMOSTATIC DIVERTER VALVE

② THERMOSTATIC MIXING VALVE

③ TEMPERATURE PROBES



# SOLAR PUMP GROUP RS1, ONLY RETURN

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

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

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

# SOLAR PUMP GROUP MRS3, FLOW AND RETURN

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

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

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

# CIRCULATION PUMPS

High-efficiency circulation pumps for solar plants


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

# ADDITIONAL TANKS

Diaphragm-free tank with tank protection feature
Colour White

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

# EXPANSION VESSELS

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

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

# ACCESSORIES FOR TANKS


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

# THERMOSTATIC MIXING VALVE

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

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

# THERMOSTATIC MIXING VALVE

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

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

# THREE-WAY DEVIATING VALVE

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

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

# CONCENTRATED SOLAR PROTECTION LIQUID

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

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

# PIPES FOR SOLAR PLANTS

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

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

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

(*) Product available while stocks last

# FITTING FOR SOLAR PLANTS

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

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

(*) Product available while stocks last

# SOLAR KIT FOR COMBINATION BOILERS

0KITSOLC07

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

Consisting of:

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

| ITACA KC FORMENTERA KC ANTEA NEXT KC FORMENTERA PRO CTN | |
|---|---|
| System connection | Rear connections |
| Code | 0KITSOLC07 |

# TEMPERATURE PROBE

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

Heat paste supplied

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

# SG2 SOLAR CONTROL UNIT

Control unit for managing 10 types of systems

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

# SG3 SOLAR CONTROL UNIT

Control unit for managing 13 types of systems

- 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

| SOLAR ELECTRONIC CONTROL UNITS | SG2 | SG3 |
|---|---|---|
| Code | PSCENSO004 | PSCENSO005 (while stocks last) |

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

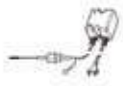
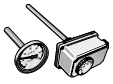
**Available in the following capacities (l):**

from 200 to 500

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

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

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

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |

# WHPS BNF DS

SOLAR HOT WATER STORAGE TANK WITH DOUBLE COIL

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

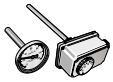
**Available in the following capacities (l):**

from 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 |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |

# WHPS BNF SS E

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

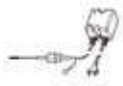
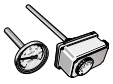
- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- **Thermometer and holders for probe included in the supply**
- **Magnesium protection anode**
- **DHW recirculation**
- **Electric auxiliary heating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

**Available in the following capacities (l):**

from 200 to 500

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

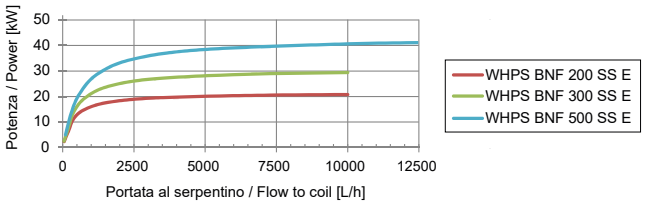
| Model | | BNF 200 SS E | BNF 300 SS E | BNF 500 SS E |
|---|---|---|---|---|
| Nominal volume | litres | 200 | 300 | 500 |
| Maximum working pressure | bar | 10 | | |
| Maximum working temperature | °C | 95 | | |
| Coil area | m2 | 0,7 | 1,05 | 1,45 |
| Coil power (ΔT 35 K) | kW | See graphs | | |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

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |

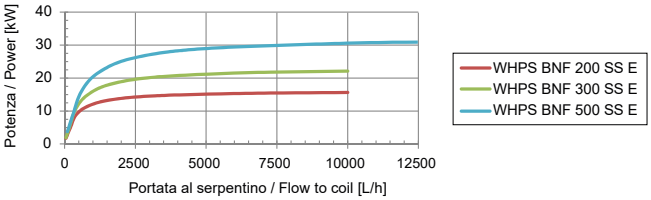
## Potenza scambiata / Exch. power

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



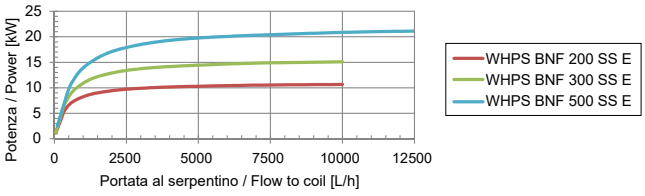

## Potenza scambiata / Exch. power

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



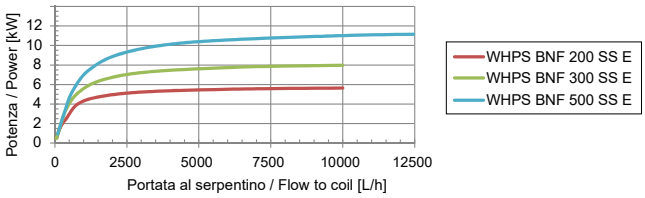

## Potenza scambiata / Exch. power

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

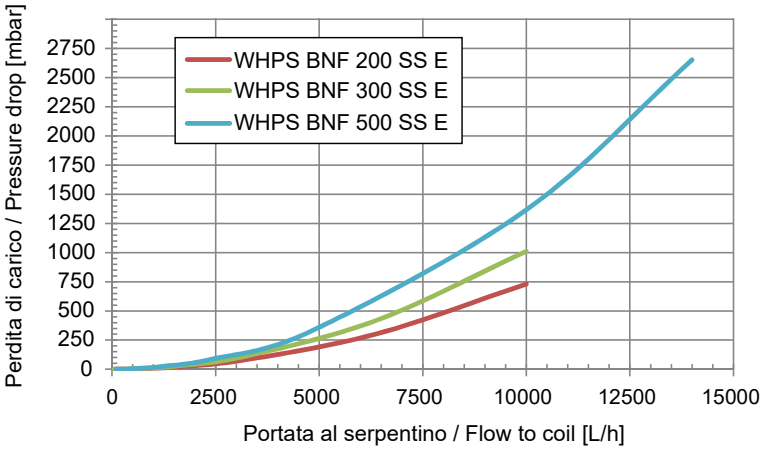



## Potenza scambiata / Exch. power

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




## Perdite di carico sul serpentino / Coil pressure drop



# WHPS BNF DS E

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

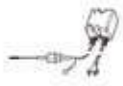
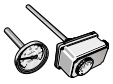
- **High efficiency and low operating costs**
- **Can be integrated with solar systems**
- **Fast storage with supply of abundant and continuous water**
- **Thermometer and holders for probe included in the supply**
- **Magnesium protection anode**
- **DHW recirculation**
- **Electric auxiliary heating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

**Available in the following capacities (l):**

from 200 to 500

| Model | Code | Dissipation S | Hot water storage | Backup volume | Energy efficiency class | Overall height | Outer diameter | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | W | litres | Vbu | | mm | mm | kg |
| **WHPS BNF 200 DS E** | PSBOLLV074 | 57 | 184 | 96 | B | 1170 | 600 | 63 |
| **WHPS BNF 300 DS E** | PSBOLLV075 | 67 | 267 | 118 | B | 1659 | 650 | 94 |
| **WHPS BNF 500 DS E** | PSBOLLV076 | 108 | 474 | 211 | C | 1710 | 750 | 141 |

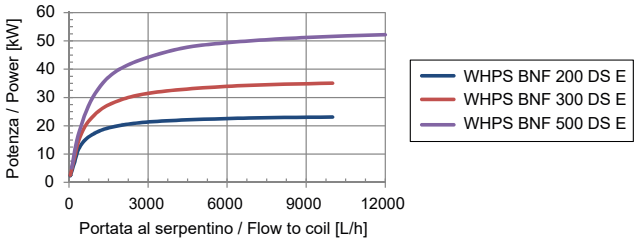
| Model | | BNF 200 DS E | BNF 300 DS E | BNF 500 DS E |
|---|---|---|---|---|
| Nominal volume | litres | 200 | 300 | 500 |
| Maximum working pressure | bar | 10 | | |
| Maximum working temperature | °C | 95 | | |
| Auxiliary coil area | m2 | 0,6 | 0,75 | 0,9 |
| Solar coil area | m2 | 0,8 | 1,2 | 1,8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

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |

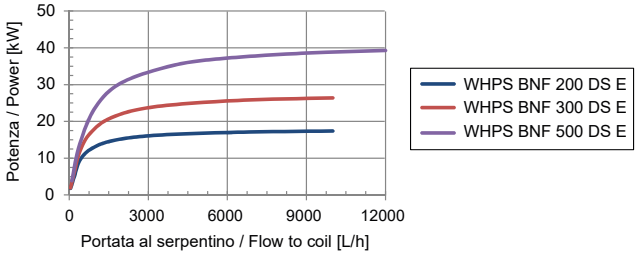
## Potenza scambiata, scamb. solare
## Exch. power, solar coil

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



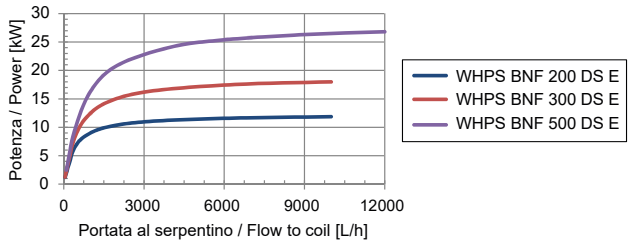

## Potenza scambiata, scamb. solare
## Exch. power, solar coil

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



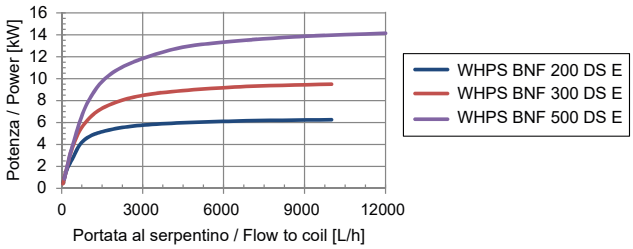

## Potenza scambiata, scamb. solare
## Exch. power, solar coil

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



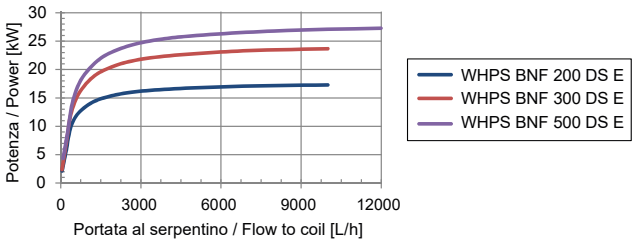

## Potenza scambiata, scamb. solare
## Exch. power, solar coil

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



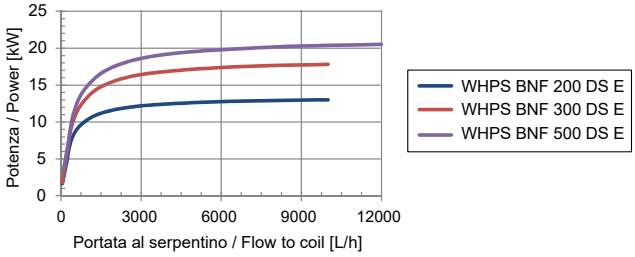

## Potenza scambiata, scamb.integr.
## Exch. power, integr.coil

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



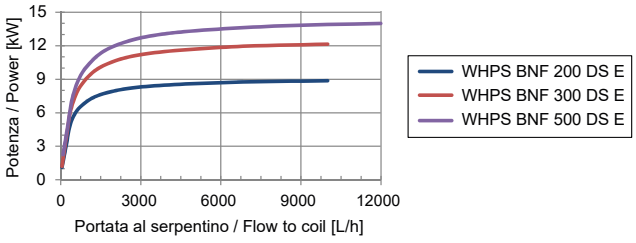

## Potenza scambiata, scamb.integr.
## Exch. power, integr.coil

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



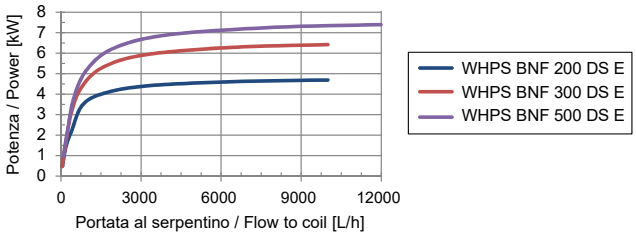

## Potenza scambiata, scamb.integr.
## Exch. power, integr.coil

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

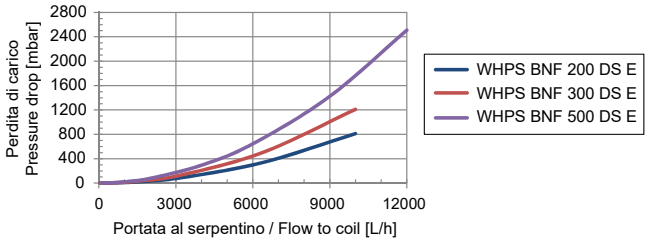



## Potenza scambiata, scamb.integr.
## Exch. power, integr.coil

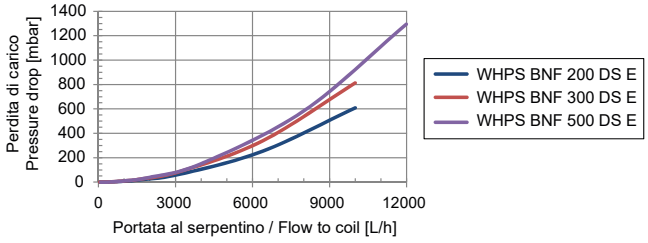
$T_{in,coil}$ = 50 °C; $T_{serb,in}$ = 10°C, $T_{serb,out}$ = 45 °C




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




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



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# WHPS BA SS

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

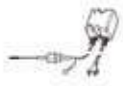
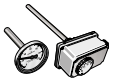
- **Inspection flange**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Protection electrodes with electronic device for 1500 and 2000 litre capacity
- Front inspection flange
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)
- Optional kit with flange and heating element for 200 - 300 - 500 models

**Available in the following capacities (l):**

from 200 to 2000

| Model | Code | Dissipation S | Hot water storage | Energy efficiency class | Overall height | Outer diameter | Gross weight |
|---|---|---|---|---|---|---|---|
| | | W | litres | | mm | mm | kg |
| **BA 200 SS** | PSBOLLV054 | 67 | 196 | C | 1215 | 600 | 90 |
| **BA 300 SS** | PSBOLLV055 | 85 | 273 | C | 1615 | 600 | 115 |
| **BA 500 SS** | PSBOLLV056 | 112 | 475 | C | 1705 | 750 | 155 |
| **BA 1000 SS AE** | PSBOLLV069 | 142 | 930 | complying with Regulation 814/2013 | 2205 | 990 | 245 |
| **BA 2000 SS AE** | PSBOLLV070 | 186 | 1950 | complying with Regulation 814/2013 | 2470 | 1300 | 410 |

| Model | | BA 200 SS | BA 300 SS | BA 500 SS | BA 1000 SS AE | BA 2000 SS AE |
|---|---|---|---|---|---|---|
| Nominal volume | litres | 200 | 300 | 500 | 1000 | 2000 |
| Maximum working pressure | bar | 10 | | | | |
| Maximum working temperature | °C | 95 | | | | |
| Coil area | m2 | 1,5 | 1,8 | 2,2 | 3,5 | 4,3 |
| Coil power (ΔT 35 K) | kW | 36 | 44 | 55 | 88 | 112 |
| Tilting height | mm | 1375 | 1735 | 1900 | 2250 | 2580 |
| Insulation thickness | mm | 50 | 50 | 50 | 100 | 100 |

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |
|  | Resistor with flange and single-phase power supply - 200/300/500 - 3kW | PSRESELE13 |

# WHPS BZ DS

SOLAR HOT WATER STORAGE TANK WITH INTEGRATED SOLAR GROUP

- **Inspection flange**
- **Thicker 70 mm insulation**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in stiff expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Front inspection flange
- DHW recirculation
- Presetting for auxiliary resistor (thread G 1 1/2)

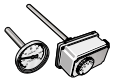
**Available in the following capacities (l):**

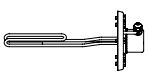
from 200 to 300

WHPS BZ DS is a hot water storage tank that can be combined with boilers for CH only, to produce domestic hot water, in porcelain-glass steel with double coil with integrated high-efficiency solar hydraulic unit.

| Model | Code | Dissipation S | Hot water storage | Backup volume | Circulation pump power | Energy efficiency class | Overall height | Outer diameter | Gross weight |
|---|---|---|---|---|---|---|---|---|---|
| | | W | litres | Vbu | W | | mm | mm | kg |
| **BZ 200 DS** | AVBZ0MD200 | 51 | 196 | 67 | 45 | B | 1215 | 640 | 88 |
| **BZ 300 DS** | AVBZ0MD300 | 63 | 273 | 85 | 45 | B | 1615 | 640 | 117 |

| Model | | BZ 200 DS | BZ 300 DS |
|---|---|---|---|
| Nominal volume | litres | 200 | 300 |
| Maximum working pressure | bar | 10 | |
| Maximum working temperature | °C | 95 | |
| Auxiliary coil area | m2 | 0,7 | 0,9 |
| Solar coil area | m2 | 1 | 1,1 |
| Coil power (ΔT 35 K) | kW | 17 | 22 |
| Solar coil power (ΔT 35 K) | kW | 24 | 26 |
| Tilting height | mm | 1335 | 1725 |
| Insulation thickness | mm | 70 | 70 |

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit<br>390 mm-long heating element | DKRESELE02 |
|  | Resistor with flange and single-phase power supply - 200/300/500 - 3kW | PSRESELE13 |

# 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 skai
- Control probes and heating circuit connections

**Available in the following capacities (l):**

2000 3000

| Model | Code | Total volume | Overall height | Outer diameter | Net weight |
|---|---|---|---|---|---|
| | | litres | mm | mm | kg |
| **PU 2000 S** | PSBOLLV015 | 2000 | 2195 | 1400 | 330,00 |
| **PU 3000 S** | PSBOLLV016 | 3000 | 2750 | 1450 | 430,00 |

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

PRODUCT AVAILABLE WHILE STOCKS LAST

# WHPS BA DS

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

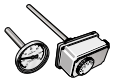
- **Inspection flange**
- **High efficiency and low operating costs**
- **Fast storage with supply of abundant and continuous water**
- **Can be integrated with solar systems**
- Insulation in soft expanded polyurethane, CFC and HCFC free
- External case in white skai
- Magnesium protection anode for up to 1000 litre capacity
- Protection electrodes with electronic device for 1500 and 2000 litre capacity
- Front inspection flange
- DHW recirculation
- Three holders for temperature probes (standard for models 200 - 300 - 500), other models are preset for two holders (G 1/2 fitting)
- Ready for resistor with G 1 1/2 fitting for 1000 - 2000 models
- Optional kit with flange and heating element for 200 - 300 - 500 models

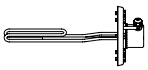
**Available in the following capacities (l):**

from 200 to 2000

| Model | Code | Dissipation S | Hot water storage | Backup volume | Energy efficiency class | Overall height | Outer diameter | Gross weight |
|---|---|---|---|---|---|---|---|---|
| | | W | litres | Vbu | | mm | mm | kg |
| **BA 200 DS** | PSBOLLV050 | 67 | 196 | 67 | C | 1215 | 600 | 95 |
| **BA 300 DS** | PSBOLLV051 | 85 | 273 | 85 | C | 1615 | 600 | 130 |
| **BA 500 DS** | PSBOLLV052 | 112 | 475 | 130 | C | 1705 | 750 | 170 |
| **BA 1000 DS AE** | PSBOLLV067 | 142 | 930 | 350 | complying with Regulation 814/2013 | 2205 | 990 | 265 |
| **BA 2000 DS AE** | PSBOLLV068 | 186 | 1950 | 840 | complying with Regulation 814/2013 | 2470 | 1300 | 480 |

| Model | | BA 200 DS | BA 300 DS | BA 500 DS | BA 1000 DS AE | BA 2000 DS AE |
|---|---|---|---|---|---|---|
| Nominal volume | litres | 200 | 300 | 500 | 1000 | 2000 |
| Maximum working pressure | bar | 10 | | | | |
| Maximum working temperature | °C | 95 | | | | |
| Auxiliary coil area | m2 | 0,5 | 1,1 | 1,3 | 1,6 | 2,8 |
| Solar coil area | m2 | 1,5 | 1,8 | 2,2 | 3 | 4,6 |
| Coil power (ΔT 35 K) | kW | 12 | 26 | 33 | 40 | 73 |
| Solar coil power (ΔT 35 K) | kW | 36 | 44 | 55 | 75 | 120 |
| Tilting height | mm | 1375 | 1735 | 1900 | 2250 | 2580 |
| Insulation thickness | mm | 50 | 50 | 50 | 100 | 100 |

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

| Item | Description | Code |
|---|---|---|
|  | 3 kW heating element kit 390 mm-long heating element | DKRESELE02 |
|  | Resistor with flange and single-phase power supply - 200/300/500 - 3kW | PSRESELE13 |

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

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