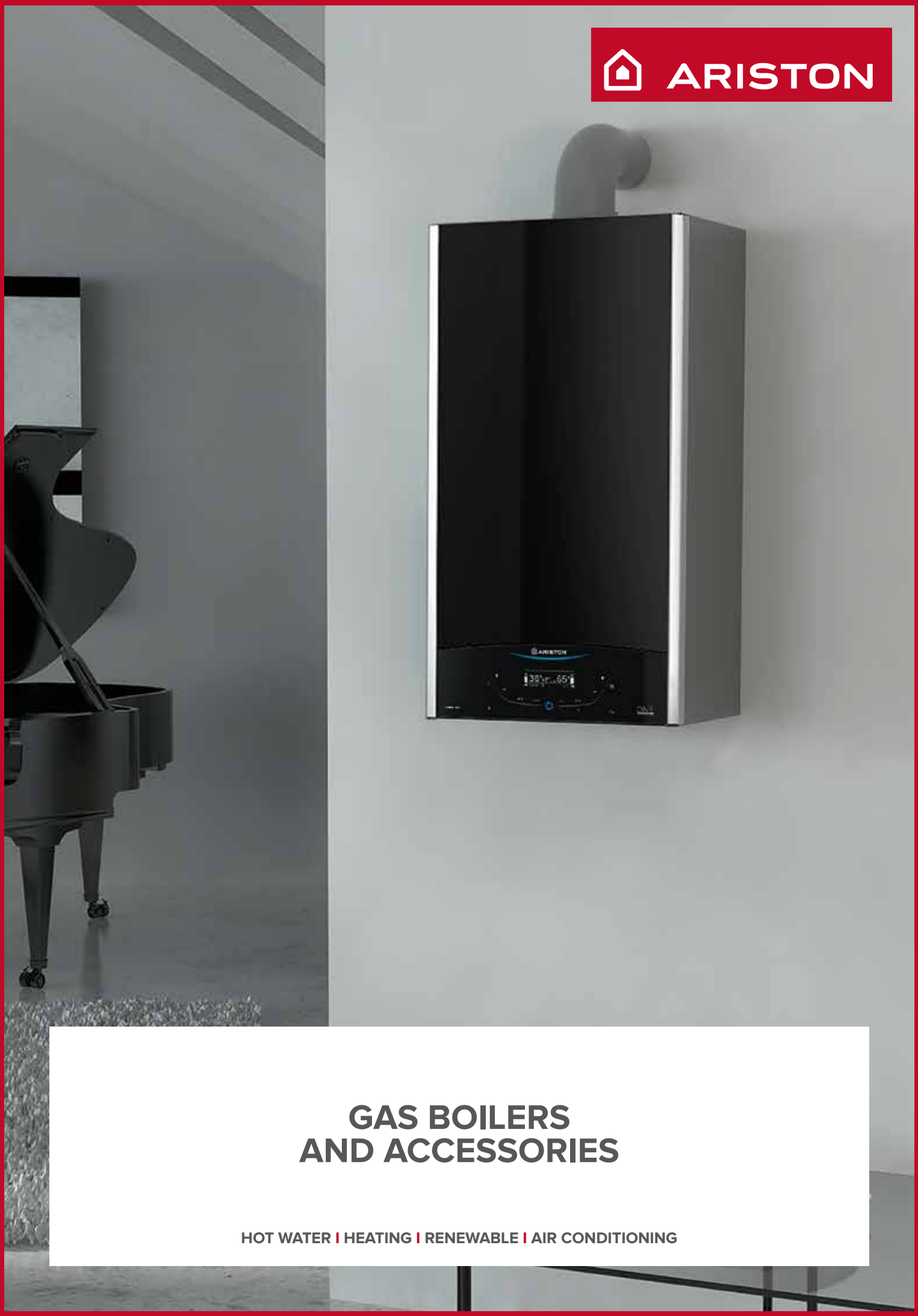


ARISTON

# GAS BOILERS AND ACCESSORIES

HOT WATER I HEATING I RENEWABLE I AIR CONDITIONING


Ariston
ARISTON
ARISTON
ARISTON
ARISTON

# COMFORT ALWAYS ON.

**For more than 80 years** we have been entering the homes of families who choose Ariston with **dedication**, **passion and attention to details**.

This is our source of inspiration to constantly improve ourselves and guide us towards a future made of **sustainable and intelligent comfort**.

Because we believe that our **everlasting quality**, **advanced performance** and **Italian style** can truly improve the quality of life, every day.

### / TODAY
Ariston is a worldwide leading brand in thermic comfort present in over 150 countries.

### / 1960s-1980s
Ariston brand is launched and the production of electric water heaters begins. During 80s, Ariston has consolidated its market leadership in water heating and the production of boilers begins.

### / 1930s
Aristide Merloni founds “Industrie Merloni” company in the Marche Region of Italy, and starts the production of weighing scales.

# ARE YOU READY FOR CHANGE?

The systems of heating and domestic hot water production represent about 30% of the energy consumption in Europe. Through the design (minimum requirements) of eco-friendly products and making aware the end user the technology with higher efficiency, it would have in 2020:

- **Total annual energy savings of 56 million tonnes of oil**
  (Equivalent to the shutdown of heating and hot water of two great nations like Italy)
- **136 million tons of CO2**
  (The absorbing of a forest with a size of the entire central and northern Italy)

Since September 26, 2015 Regulations impose to be compliant with minimum efficiency requirements and energy labeling on products such as boilers, heat pumps, micro-CHP, water heaters and hot water tanks.

The Regulations is valid only for products placed on the market since 09.26.2015; previously purchased and already present in the points of sale or in warehouses of distributors will continue to be sold and installed, although not complying with the new requirements.

| 26.09.2015 | 2017 | 2019 |
|---|---|---|
| **A++** (heating) / **A** (sanitary function)<br>Mandatory labeling for heating and production of hot water products (energy class) | **A+**<br>Introduced in hot water production | **A+++**<br>Introduced in heating |
| Minimum performance requirements for heating and hot water production | | New limits on EFFICIENCY and EMISSIONS |

ErP ENERGY RELATED PRODUCTS

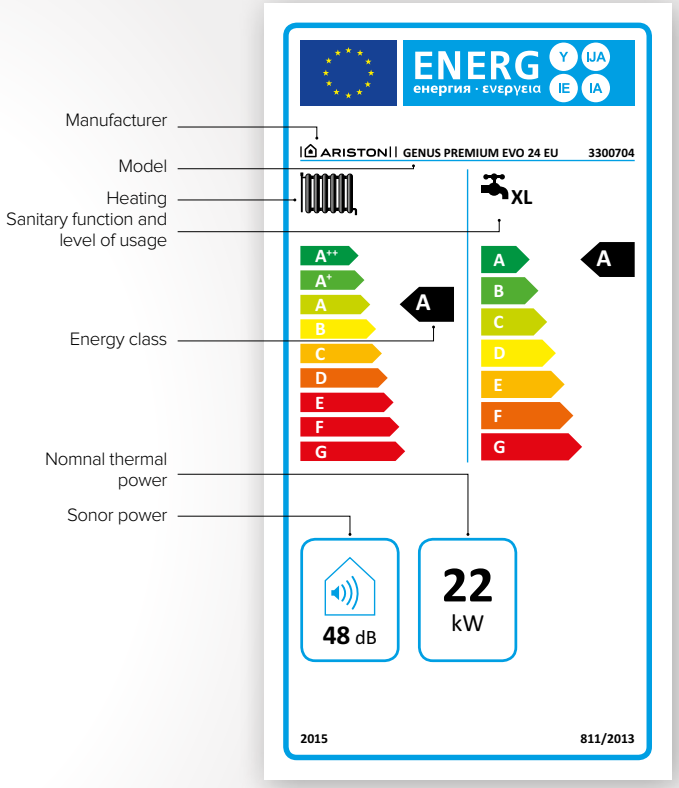
# ENERGY LABEL

## PRODUCT LABEL

There are different labels, depending on the type of product and service guaranteed. The efficiency classes A, A+ and A++ indicate the products with higher performance.

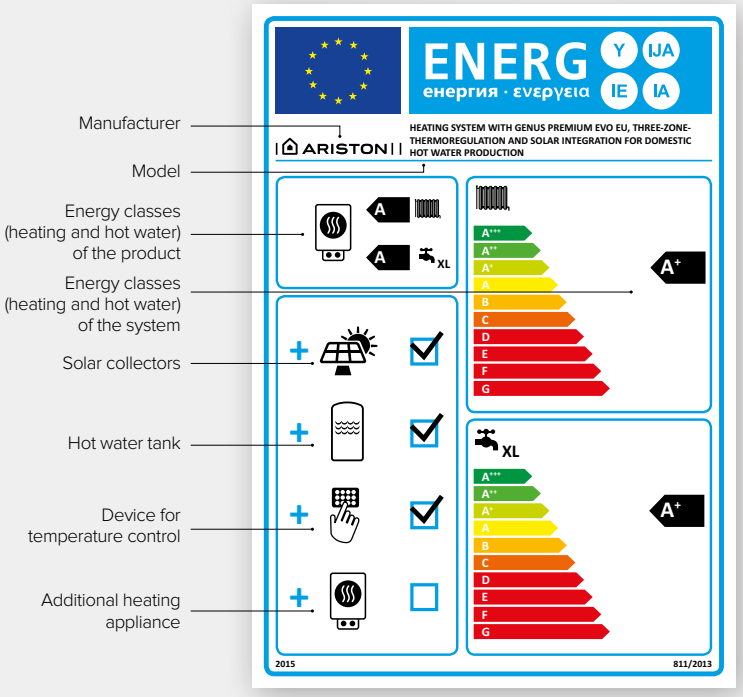
**There are two different classifications for the heating and water production services; for products which can provide both services, labels must show both the classifications.**

In addition to the energy class, the labels display information to help consumers choosing the most efficient prodcts with less environmental impact (power consumption in different weather areas noise, etc ...).




Energy label of a boiler

## SYSTEM LABEL

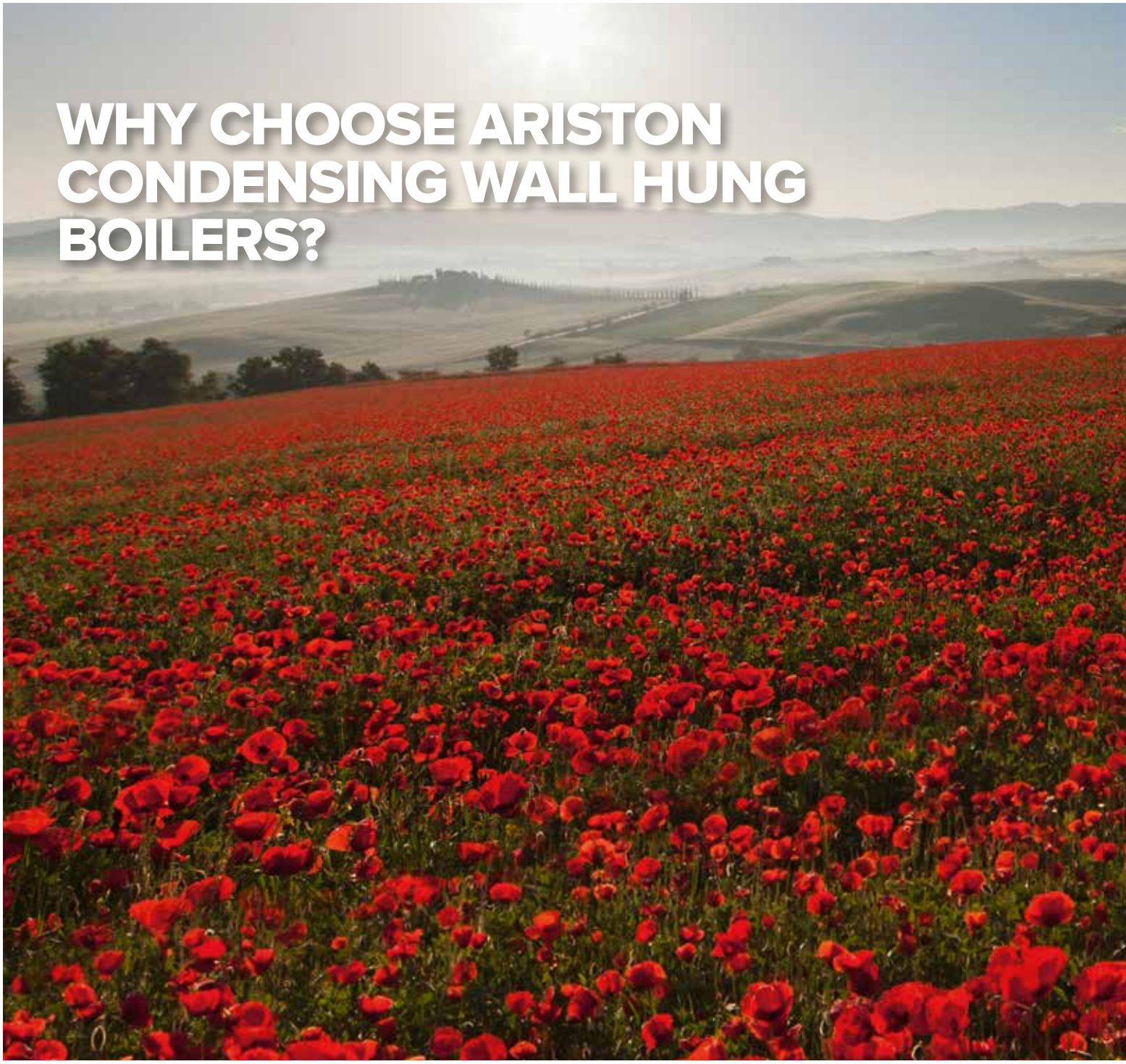



Energy label of a combi boiler

All devices for which it is proposed (or expected) a combination with predefined devices, must have a second label, in addition to the product label and technical documentation, advertising and promotional materials showing its performance.

Who sells these systems will be responsible for define the achieved performance (through an automatic algorithm) and inform his client.

Go on ariston.com and use our **online configurator** to achieve, download and print the system label. ariston.com



# WHY CHOOSE ARISTON CONDENSING WALL HUNG BOILERS?

## 1 / ENERGY EFFICIENCY

All Ariston wall hung boilers are designed to be responsible for the environment.
Ariston Technology optimizes the wall hung boiler functioning to reduce energy consumption and emissions as much as possible (always ahead of European regulations), up to 35%* of your energy bill.

## 2 / ARISTON QUALITY, REAL LIFE RESISTANT

Ariston quality is guaranteed: all Ariston wall hung boilers are tested during production and before being delivered in the market.
Real life test: most of Ariston wall hung boilers is usually tested for at least two winter seasons at people's home to test performance in real home installation.

## 3 / PERFORMANCE OVER TIME

All Ariston products are designed to work hard over time without being stressed.
With the "Accelerated life" tests, Ariston simulates years of wall hung boiler's life by testing it in laboratory at maximum functioning, to guarantee the same performance over time.

* Based on replacing a 10 years old gas-fired boiler with a new high efficiency condensing boiler equipped with Sensys, indoor and outdoor sensors

# 4 / FEEL COMFORTABLE

## / EASINESS OF USE

Now you can easily use and interact with the wall hung boiler, thanks to the intuitive menu and the high quality LCD display. You can set the desired temperature and activate the functions you need in few steps. In Genus premium evo, you can also personalize the menu, to have all the information you need always available.

## / AUTO FUNCTION

With AUTO function ON, the wall hung boiler is able to quantify the effort needed to reach the temperature you desire and keep it stable. In this way, it consumes less gas and electricity, avoiding maximum functioning peaks.

## / COMFORT FUNCTION

With COMFORT function ON, the wall hung boiler can provide you hot water almost instantaneously, so that you can enjoy a hot shower whenever you want.

## / SILENCE

All Ariston products have been designed to be in harmony with your home. The functioning and internal architecture of the wall hung boilers have been optimized to make them super silent and respect the quiet of your everyday life.


***ONE*** SERIES:

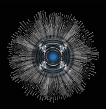
# THE NEXT GENERATION OF CONDENSING SYSTEM FOR FULL HEAT MANAGEMENT.

# PER4MANCE SYSTEM

## FOUR TECHNOLOGIES FOR AN EXCLUSIVE PERFORMANCE.

### XTRATECH HEAT EXCHANGER: DURABLE HEATING.

ONE condensing technology provides reliable **endurance performances over time for the best comfort at home, every day**. With new heat exchanger's design, pipes are larger, for an improved water flow able to increase heating performances. After years as the first day.



### ABSOLUTE EFFICIENCY: A+ ENERGY CLASS.

Constant heating performance, advanced control and safety in any condition thanks to the innovative **Ignition System**. The ONE condensing heating technology and thermo regulation accessories enhance efficiency and performances up to **A+ Energy Class**.

### ALWAYS CONNECTED WITH ARISTON NET.

A new generation of connectivity to easily set up, manage and control the system, getting **a great saving** of annual energy and **technical support always on**.

### FULL CONTROL, FULL COMFORT.

A unique set of innovative **smart functions for quick and stable heating temperature** and easy customization to satisfy every need you have.

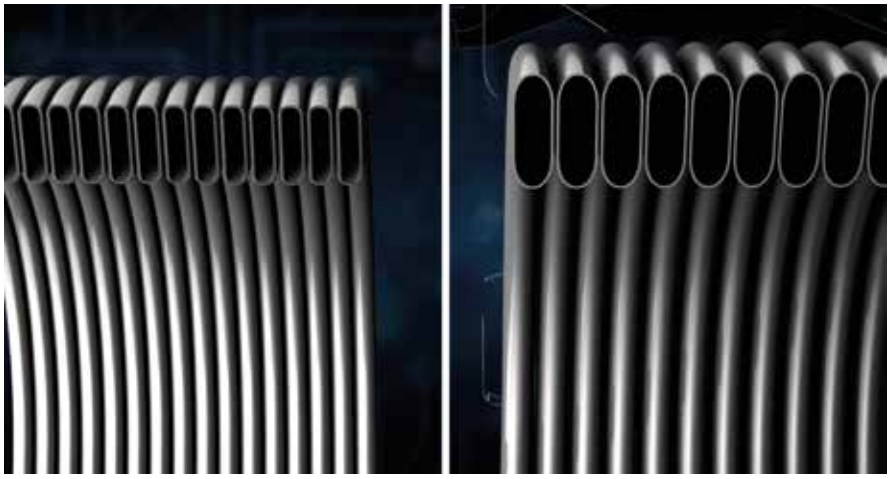
## DURABLE HEATING

# XTRATECH HEAT EXCHANGER: LONG LASTING PERFORMANCES YEAR AFTER YEAR.

The new **XtraTech Heat Exchanger** is the heart of the heating ONE condensing technology, designed to guarantee reliable endurance performances over time.

CURRENT HEAT EXCHANGER

XTRATECH HEAT EXCHANGER



Larger pipes for improved water flow to increase heating performances. After years as the first day.

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE**

www.tuv.com
ID 0000056520


ONE
CONDENSINGTECH

## FULL COMFORT

# ENJOY COMPLETE CONTROL EVERY DAY WITH THERMO FUNCTIONS.

A unique set of **innovative smart functions** for quick and stable heating temperature and easy customization to satisfy every need.

### AUTO FUNCTION

Patented function allowing the automatic setting of home heating thanks to three inside and outside temperature sensors. No ON-OFF cycles and functioning peaks for optimized consumptions.

### COMFORT FUNCTION

Hot water almost instantaneously, reducing the waste of cold water.

### INTEGRATED TIME PROGRAMMING

Desidered weekly schedule of the heating directly from the product.

### CARE FUNCTION

Alerts when the ordinary maintenance is due and when something needs to be checked by a professional.

# SMART CONNECTIVITY. THE APP THAT MAKES YOUR PRODUCT SMART.

## WHEREVER YOU ARE, ALWAYS AT YOUR FINGERTIPS.

Managing and controlling your boiler from anywhere has never been so easy: now you can warm warm or cool your home and have hot water ready for when you get back there.

## USE JUST THE ENERGY YOU NEED AND SAVE ENERGY.

Improve the way you use energy by monitoring your consumption and schedule the use of your energy more efficiently.

## TECHNICAL SUPPORT ALWAYS ON.

Thanks to the innovative monitoring system, the app is able to advise you, in case of an occurrence of any problem to the system. By activating the remote diagnostic service, your after sales service company is able to immediately solve many problems remotely.


## FOLLOW 3 SIMPLE STEPS

- THERMOREGULATION ACCESSORY INSTALLATION
- ACCOUNT REGISTRATION
- WI-FI CONFIGURATION AND PRODUCT REGISTRATION

APP for remote control

Download the APP for free

Download on the App Store

ANDROID APP ON Google play

For further information visit our website **ariston.com**

# THE ARISTON EVERLASTING QUALITY ALWAYS AT HOME.

## 100% GRANTED BY ARISTON

Every single component is developed in order to guarantee long-lasting performance and high efficiency: the Ariston warranty, branded inside.

## 100% CHECKED AND TESTED

Every single Ariston product is carefully and strictly tested on quality, efficiency and safety before coming to you: our commitment for superior results.

## 100% MADE TO LAST

Strong and highly resistant materials, core components and products developed for the extreme working conditions to guarantee top level results, for longer.

ARISTON
SERVICE

# AFTER SALE SERVICE

## FIRST CLASS SERVICE

Ariston SERVICE model is designed to offer efficiency and professionalism to all its customers.

## GENUINE ARISTON SPARE PARTS

Genuine ARISTON Spare Parts are built and tested to maintain the best quality and reliability of your Ariston product.
Only using genuine components you will keep your system in the best standard configuration, fulfilling legal and warranty requirements.

## PEACE OF MIND VALUABLE SERVICE

You can rest assured that you extend the life and the safety of your product and that in case of any event it will be dealt quickly and with professionalism.

Look up for the closest service center on **ariston.com**
or call Ariston Service **green number 800 111 222**

/ A NEW BOILER GENERATION TO GIVE ALWAYS THE BEST

/ LESS WASTES AND MORE WELLBEING. THE PLANET THANKS

/ WITH US THE CONDENSING TECHNOLOGY IS INTELLIGENT AND ALWAYS GUARANTEES THE MAXIMUM EFFICIENCY

ARISTON


# CONDENSING GAS BOILERS

# CONDENSING WALL HUNG BOILERS

| | ALTEAS ONE NET | | | GENUS ONE NET | | | GENUS ONE | | |
|---|---|---|---|---|---|---|---|---|---|
| | 24 | 30 | 35 | 24 | 30 | 35 | 24 | 30 | 35 |
| SPACE HEATING ENERGY CLASS | A+* | | | A | | | A | | |
| WATER HEATING ENERGY CLASS | A - XL | | A - XXL | A - XL | | A - XXL | A - XL | | A - XXL |
| CONNECTIVITY | Built into the boiler | | | Standard with CUBE S NET thermostat | | | with optional kit | | |
| DISPLAY | Large touchscreen display | | | Large touchscreen display | | | Large touchscreen display | | |
| MODULATION | 01:10 | | | 01:10 | | | 01:10 | | |
| HI-COMFORT FUNCTION | AUTO, Comfort, CARE | | | AUTO, Comfort, CARE | | | AUTO, Comfort, CARE | | |
| GAS TYPE | MET, LPG, AP | | | MET, LPG, AP | | | MET, LPG, AP | | |
| PAGE | 22 | | | 24 | | | 26 | | |

* A+ achieved as a result of thermal regulation
** 30 and 35 kW model depth: 385 mm

| GENUS ONE SYSTEM | | | | | CLAS ONE NET | | | CLAS ONE | | | CLAS ONE SYSTEM | | CARES PREMIUM | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 18 | 24 | 30 | 35 | 24 | 30 | 35 | 24 | 30 | 35 | 24 | 35 | 24 | 30 |
| **A** | | | | | **A** | | | **A** | | | **A** | | **A** | **A** |
| - | | | | | **A - XL** | | **A - XXL** | **A - XL** | | **A - XXL** | - | | **A - XL** | **A - XL** |
| READY FOR ARISTON NET with optional kit | | | | | ARISTON NET Standard with CUBE S NET thermostat | | | READY FOR ARISTON NET with optional kit | | | READY FOR ARISTON NET with optional kit | | - | |
| Large touchscreen display | | | | | Large display, keys | | | Large display, keys | | | Large display, keys | | Mini LCD display | |
| 1:5 | 1:7 | 01:10 | | | 1:7 | | | 1:7 | | | 1:7 | | 1:4 | |
| AUTO, CARE | | | | | AUTO, Comfort | | | AUTO, Comfort | | | AUTO | | - | |
| MET, LPG, AP | | | | | MET, LPG, AP with standard kit | | | MET, LPG, AP with standard kit | | | MET, LPG, AP with standard kit | | Only MET | |
| 28 | | | | | 30 | | | 32 | | | 34 | | 36 | |

# CONDENSING BOILERS

| | CLAS B PREMIUM EVO | | GENUS PREMIUM EVO SOLAR FS | | |
|---|---|---|---|---|---|
| | 24 | 35 | 24 | 30 | 35 |
| SPACE HEATING ENERGY CLASS | A | | A | | |
| WATER HEATING ENERGY CLASS | A - XL | | A - XL | A - XXL | A - XL |
| CONNECTIVITY | READY FOR ARISTON NET with optional kit | | READY FOR ARISTON NET with optional kit | | |
| THERMOREGULATION INCLUDED | - | | Sensys | | |
| DISPLAY | Wide LCD Display | | Wide Dot Matrix LCD display | | |
| EXTERNAL DIMENSION mm (HxLxD) | 900 x 600 x 460 | | 2000 x 600 x 660 | | |
| FUNCTION HI-COMFORT | AUTO, Comfort | | AUTO, Comfort | | |
| GAS TYPE | MET, LPG with optional kit | | MET, LPG with optional kit | | |
| PAGE | 38 | | 40 | | |

* Based on replacing a 10 years old gas-fired boiler with a new high efficiency condensing boiler equipped with Sensys, indoor and outdoor sensor

# EXTERNAL CONDENSING BOILERS

| GENUS PREMIUM EVO EXT | GENUS PREMIUM EVO IN |
|---|---|
| 25 | 25 |
| **A** | **A** |
| **A - XL** | **A - XL** |
| READY FOR ARISTON NET with optional kit | READY FOR ARISTON NET with optional kit |
| Sensys + External Probe | Sensys + External Probe |
| Controlled by Sensys | Controlled by Sensys |
| 770 x 505 x 240 | 1140 x 590 x 240 |
| AUTO, Comfort | AUTO |
| MET, LPG with optional kit | MET, LPG with optional kit |
| 42 | 44 |

# ALTEAS ONE NET

## Top of the range condensing boiler, Italian design and integrated connectivity

ENERGY CLASS

A+ / A

- / New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
- / Heat exchanger flow sections **+142%** compared to previous version
- / Scratch-proof tempered glass panel
- / Large touchscreen display

- / Ignition system, electronic combustion control
- / Gas transformation from the technician menu
- / Classe A+ heating, thanks to the Cube thermostat and outdoor sensor, included as standard
- / Modulation ratio 1:10

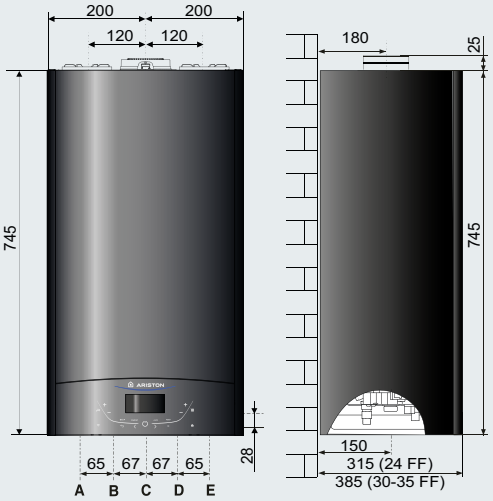
- / Ariston NET connectivity included with the boiler
- / BusBridgeNet® communication protocol

- / AUTO, Comfort functions
- / New CARE function, automatic scheduled maintenance reminder
- / Internal sound absorbing panels

- / Installation in partially protected areas
- / Flue gas discharge 80, 60, 50 mm

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE



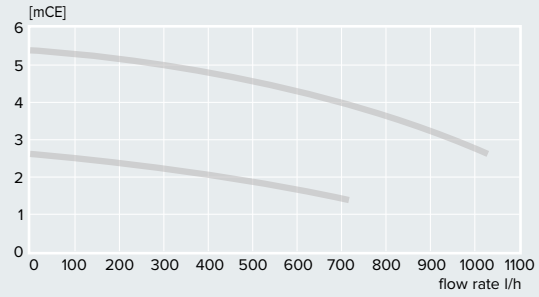

**KEY:**

A \ System flow Ø 3/4" gas
B \ Domestic hot water outlet Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ Domestic hot water intake Ø 1/2" gas
E \ System return Ø 3/4" gas

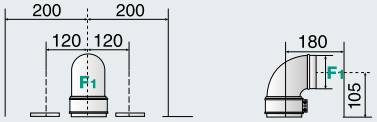

** Patent application submitted*

SUPER SILENT · ITALIAN DESIGN · AUTO FUNCTION · COMFORT FUNCTION · SMART MENU · SIMPLE INSTALLATION · EASY MAINTENANCE · SYSTEM CONTROL · COMPACT SIZE

**Boiler residual head**

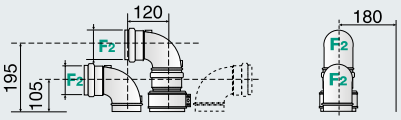



**Version** - Coaxial exhaust



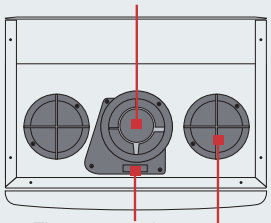

Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 6 m (35 kW)
Ø80/125: up to 21 m (24 kW) - 20 m (30 kW) - 24 m (35 kW)

**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24-30 kW) - 45 m (35 kW)
Ø60/60: up to 16 m (24 kW) - 12 m (30 kW) - 14 m (35 kW)

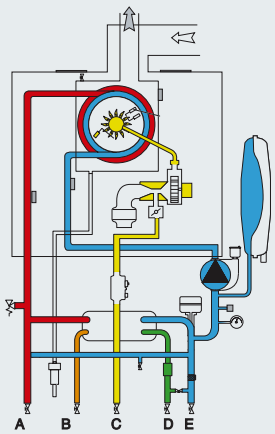
Coaxial inlet/exhaust manifold



Flue gas analysis inspection point

Air inlet for split exhaust systems

**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| ALTEAS ONE NET 24 | 14 |
| ALTEAS ONE NET 30 - 35 | 12 |

| TECHNICAL DATA | | 24 | 30 | 35 |
|---|---|---|---|---|
| **GENERAL** | | | | |
| EC certification no. | | | 0085CR0394 | |
| Boiler type | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X)C83(X)-C93(X) B23-B23P-B33 | |
| **POWER SPECIFICATIONS** | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 22.0/2.5 | 28.0/3.0 | 31.0/3.5 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 24.4/2.8 | 31.1/3.0 | 34.4/3.9 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 26.0/2.5 | 30.0/3.0 | 34.5/3.5 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 28.9/2.8 | 33.3/3.3 | 38.3/3.9 |
| Max/min power output (80°C-60°C) Pn | kW | 21.5/2.3 | 27.5/2.8 | 30.3/3.3 |
| Max/min power output (50°C-30°C) Pn | kW | 23.6/2.6 | 30.3/3.1 | 33.5/3.6 |
| Domestic hot water max/min power output Pn | kW | 24.9/2.4 | 28.7/2.9 | 33.1/3.4 |
| Combustion efficiency (of flue gas) | % | 97.4 | 97.8 | 97.8 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.7/87.9 | 98.4/88.6 | 97.7/88.0 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.4/96.7 | 108.3/97.5 | 108.0/97.2 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.8/98.9 | 109.5/98.6 | 109.5/98.6 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 91.1/82.0 | 93.0/83.8 | 93.5/84.2 |
| Efficiency rating (dir. 92/42/EEC) | stars | | ★★★★ | |
| Loss of burner gas when operating | % | 2.6 | 2.2 | 2.2 |
| **EMISSIONS** | | | | |
| Available air pressure | Pa | 100 | 100 | 100 |
| NOx class | class | | 5 | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 70 | 66 | 66 |
| CO2 content (G20) (80°C-60°C) | % | 8.8 | 8.8 | 8.8 |
| CO content (0%O2) (80°C-60°C) | ppm | 80.1 | 102.2 | 98.8 |
| CO2 content (G20) (80°C-60°C) | % | 5.4 | 3.8 | 4.5 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 44.9 | 47.6 | 55.7 |
| Excess air (80°C-60°C) | % | 34 | 22 | 27 |
| **HEATING CIRCUIT** | | | | |
| Expansion chamber inflation pressure | bar | | 1 | |
| Maximum heating pressure | bar | | 3 | |
| Expansion chamber capacity | l | | 8 | |
| Min/max heating temperature (high temperature range) | °C | | 35/82 | |
| Min/max heating temperature (low temperature range) | °C | | 20/45 | |
| **DOMESTIC HOT WATER** | | | | |
| Domestic hot water max/min temperature | °C | | 36/60 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 12.8 | 14.3 | 16.5 |
| Quantity of hot water ΔT=25°C | l/min | 15.4 | 17.2 | 19.8 |
| Quantity of hot water ΔT=35°C | l/min | 11.0 | 12.3 | 14.1 |
| Hot water comfort rating (EN13203) | stars | | ★★★ | |
| Hot water minimum flow rate | l/min | 2 | 2 | 2 |
| Domestic hot water max/min pressure | bar | | 7.0/0.2 | |
| **ELECTRICAL** | | | | |
| Power supply frequency/voltage | V/Hz | | 230/50 | |
| Total electrical power absorbed | W | 80 | 91 | 82 |
| Minimum ambient temperature for use | °C | | 5 | |
| Protection level for the electrical appliance | IP | | X5D | |
| Weight | kg | 32.7 | 35.3 | 37.6 |

**METHANE CODE**

| ErP | 3301058 | 3301059 | 3301060 |
|---|---|---|---|
| Energy class | A | A | A |
| Domestic hot water production energy class | A | A | A |
| Consumption profiles | XL | XL | XXL |

*For complete list of accessories see page 79*

# GENUS ONE NET

## Top of the range condensing boiler and connectivity as standard

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ Large touchscreen display

/ Ignition system, electronic combustion control
/ Gas transformation from the technician menu
/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:10

/ Ariston NET connectivity included, thanks to the Cube S NET thermostat
/ BusBridgeNet® communication protocol

/ AUTO, Comfort functions
/ New CARE function, automatic scheduled maintenance reminder
/ Internal sound absorbing panels

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

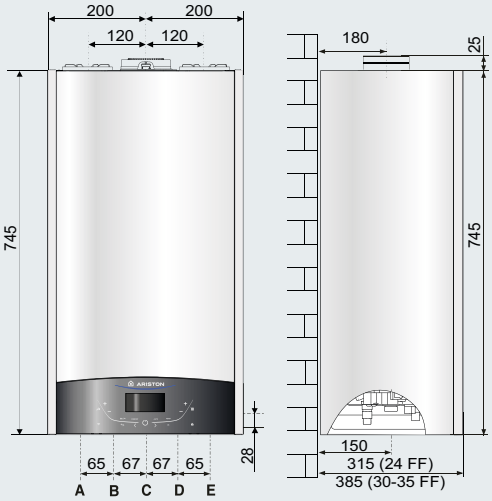
**ENERGY CLASS**

A

A

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE

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D \ Domestic hot water intake Ø 1/2" gas
E \ System return Ø 3/4" gas

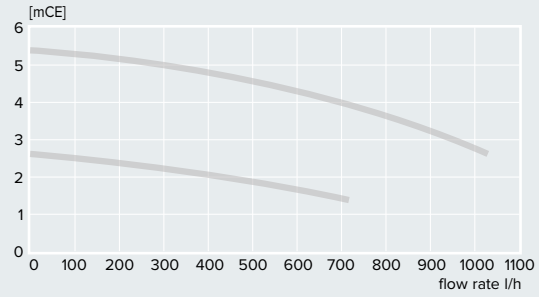


**CUBE S NET**
ROOM SENSOR
included

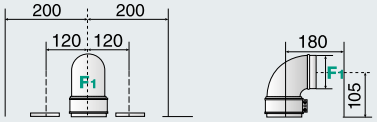
** Patent application submitted*

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | SMART MENU | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

**Boiler residual head**

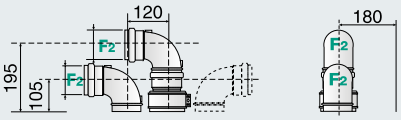



**Version** - Coaxial exhaust

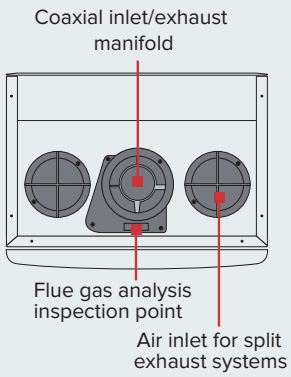



Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 6 m (35 kW)
Ø80/125: up to 21 m (24 kW) - 20 m (30 kW) - 24 m (35 kW)

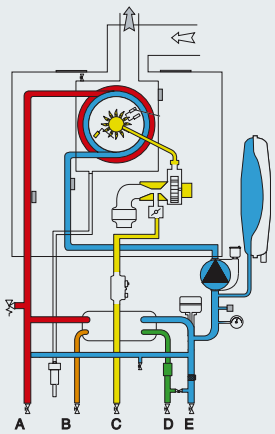
**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24-30 kW) - 45 m (35 kW)
Ø60/60: up to 16 m (24 kW) - 12 m (30 kW) - 14 m (35 kW)




**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| GENUS ONE NET 24 | 14 |
| GENUS ONE NET 30 - 35 | 12 |

| TECHNICAL DATA | | 24 | 30 | 35 |
|---|---|---|---|---|
| **GENERAL** | | | | |
| EC certification no. | | | 0085CR0394 | |
| Boiler type | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X)C83(X)-C93(X) B23-B23P-B33 | |
| **POWER SPECIFICATIONS** | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 22.0/2.5 | 28.0/3.0 | 31.0/3.5 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 24.4/2.8 | 31.1/3.0 | 34.4/3.9 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 26.0/2.5 | 30.0/3.0 | 34.5/3.5 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 28.9/2.8 | 33.3/3.3 | 38.3/3.9 |
| Max/min power output (80°C-60°C) Pn | kW | 21.5/2.3 | 27.5/2.8 | 30.3/3.3 |
| Max/min power output (50°C-30°C) Pn | kW | 23.6/2.6 | 30.3/3.1 | 33.5/3.6 |
| Domestic hot water max/min power output Pn | kW | 24.9/2.4 | 28.7/2.9 | 33.1/3.4 |
| Combustion efficiency (of flue gas) | % | 97.4 | 97.8 | 97.8 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.7/87.9 | 98.4/88.6 | 97.7/88.0 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.4/96.7 | 108.3/97.5 | 108.0/97.2 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.8/98.9 | 109.5/98.6 | 109.5/98.6 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 91.1/82.0 | 93.0/83.8 | 93.5/84.2 |
| Efficiency rating (dir. 92/42/EEC) | stars | | ★★★★ | |
| Loss of burner gas when operating | % | 2.6 | 2.2 | 2.2 |
| **EMISSIONS** | | | | |
| Available air pressure | Pa | 100 | 100 | 100 |
| NOx class | class | | 5 | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 70 | 66 | 66 |
| CO2 content (G20) (80°C-60°C) | % | 8.8 | 8.8 | 8.8 |
| CO content (0%O2) (80°C-60°C) | ppm | 80.1 | 102.2 | 98.8 |
| CO2 content (G20) (80°C-60°C) | % | 5.4 | 3.8 | 4.5 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 44.9 | 47.6 | 55.7 |
| Excess air (80°C-60°C) | % | 34 | 22 | 27 |
| **HEATING CIRCUIT** | | | | |
| Expansion chamber inflation pressure | bar | | 1 | |
| Maximum heating pressure | bar | | 3 | |
| Expansion chamber capacity | l | | 8 | |
| Min/max heating temperature (high temperature range) | °C | | 35/82 | |
| Min/max heating temperature (low temperature range) | °C | | 20/45 | |
| **DOMESTIC HOT WATER** | | | | |
| Domestic hot water max/min temperature | °C | | 36/60 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 12.8 | 14.3 | 16.5 |
| Quantity of hot water ΔT=25°C | l/min | 15.4 | 17.2 | 19.8 |
| Quantity of hot water ΔT=35°C | l/min | 11.0 | 12.3 | 14.1 |
| Hot water comfort rating (EN13203) | stars | | ★★★ | |
| Hot water minimum flow rate | l/min | | 2 | |
| Domestic hot water max/min pressure | bar | | 7.0/0.2 | |
| **ELECTRICAL** | | | | |
| Power supply frequency/voltage | V/Hz | | 230/50 | |
| Total electrical power absorbed | W | 80 | 91 | 82 |
| Minimum ambient temperature for use | °C | | 5 | |
| Protection level for the electrical appliance | IP | | X5D | |
| Weight | kg | 29.7 | 32.3 | 34.6 |

**METHANE CODE**

| ErP | 3301113 | 3301114 | 3301115 |
|---|---|---|---|
| Energy class | A | A | A |
| Domestic hot water production energy class | A | A | A |
| Consumption profiles | XL | XL | XXL |

*For complete list of accessories see page 79*

# GENUS ONE

## Top of the range condensing boiler and connectivity as standard

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ Large touchscreen display

/ Ignition system, electronic combustion control
/ Gas transformation from the technician menu
/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:10

/ BusBridgeNet® communication protocol

/ AUTO, Comfort functions
/ New CARE function, automatic scheduled maintenance reminder
/ Internal sound absorbing panels

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

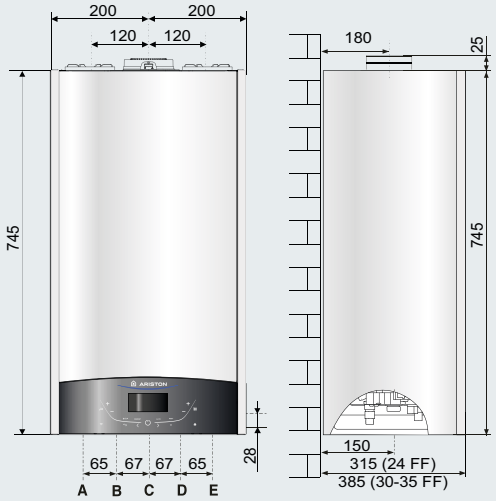
**ENERGY CLASS**

A

A

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE

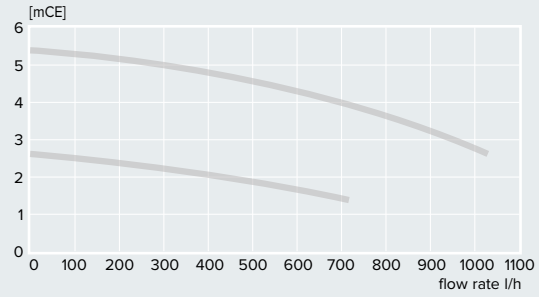



**KEY:**
A \ System flow Ø 3/4" gas
B \ Domestic hot water outlet Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ Domestic Hot water intake Ø 1/2" gas
E \ System return Ø 3/4" gas

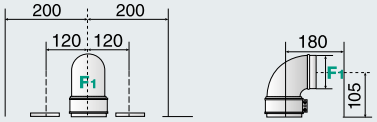
** Patent application submitted*

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | SMART MENU | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

**Boiler residual head**

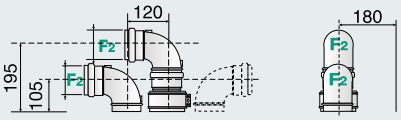



**Version** - Coaxial exhaust

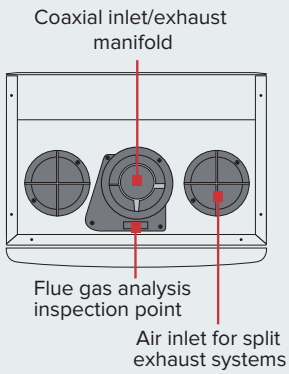



Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 6 m (35 kW)
Ø80/125: up to 21 m (24 kW) - 20 m (30 kW) - 24 m (35 kW)

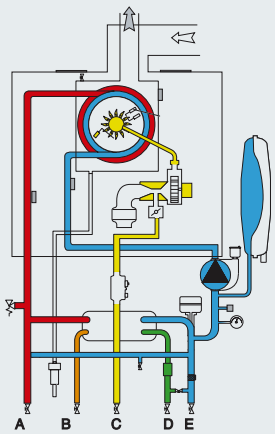
**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24-30 kW) - 45 m (35 kW)
Ø60/60: up to 16 m (24 kW) - 12 m (30 kW) - 14 m (35 kW)




**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| GENUS ONE 24 | 14 |
| GENUS ONE 30 - 35 | 12 |

| TECHNICAL DATA | | 24 | 30 | 35 |
|---|---|---|---|---|
| **GENERAL** | | | | |
| EC certification no. | | | 0085CR0394 | |
| Boiler type | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X)C83(X)-C93(X) B23-B23P-B33 | |
| **POWER SPECIFICATIONS** | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 22.0/2.5 | 28.0/3.0 | 31.0/3.5 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 24.4/2.8 | 31.1/3.0 | 34.4/3.9 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 26.0/2.5 | 30.0/3.0 | 34.5/3.5 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 28.9/2.8 | 33.3/3.3 | 38.3/3.9 |
| Max/min power output (80°C-60°C) Pn | kW | 21.5/2.3 | 27.5/2.8 | 30.3/3.3 |
| Max/min power output (50°C-30°C) Pn | kW | 23.6/2.6 | 30.3/3.1 | 33.5/3.6 |
| Domestic hot water max/min power output Pn | kW | 24.9/2.4 | 28.7/2.9 | 33.1/3.4 |
| Combustion efficiency (of flue gas) | % | 97.4 | 97.8 | 97.8 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.7/87.9 | 98.4/88.6 | 97.7/88.0 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.4/96.7 | 108.3/97.5 | 108.0/97.2 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.8/98.9 | 109.5/98.6 | 109.5/98.6 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 91.1/82.0 | 93.0/83.8 | 93.5/84.2 |
| Efficiency rating (dir. 92/42/EEC) | stars | | ★★★★ | |
| Loss of burner gas when operating | % | 2.6 | 2.2 | 2.2 |
| **EMISSIONS** | | | | |
| Available air pressure | Pa | 100 | 100 | 100 |
| NOx class | class | | 5 | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 70 | 66 | 66 |
| CO2 content (G20) (80°C-60°C) | % | 8.8 | 8.8 | 8.8 |
| CO content (0%O2) (80°C-60°C) | ppm | 80.1 | 102.2 | 98.8 |
| CO2 content (G20) (80°C-60°C) | % | 5.4 | 3.8 | 4.5 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 44.9 | 47.6 | 55.7 |
| Excess air (80°C-60°C) | % | 34 | 22 | 27 |
| **HEATING CIRCUIT** | | | | |
| Expansion chamber inflation pressure | bar | | 1 | |
| Maximum heating pressure | bar | | 3 | |
| Expansion chamber capacity | l | | 8 | |
| Min/max heating temperature (high temperature range) | °C | | 35/82 | |
| Min/max heating temperature (low temperature range) | °C | | 20/45 | |
| **DOMESTIC HOT WATER** | | | | |
| Domestic hot water max/min temperature | °C | | 36/60 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 12.8 | 14.3 | 16.5 |
| Quantity of hot water ΔT=25°C | l/min | 15.4 | 17.2 | 19.8 |
| Quantity of hot water ΔT=35°C | l/min | 11.0 | 12.3 | 14.1 |
| Hot water comfort rating (EN13203) | stars | | ★★★ | |
| Hot water minimum flow rate | l/min | | 2 | |
| Domestic hot water max/min pressure | bar | | 7.0/0.2 | |
| **ELECTRICAL** | | | | |
| Power supply frequency/voltage | V/Hz | | 230/50 | |
| Total electrical power absorbed | W | 80 | 91 | 82 |
| Minimum ambient temperature for use | °C | | 5 | |
| Protection level for the electrical appliance | IP | | X5D | |
| Weight | kg | 29.7 | 32.3 | 34.6 |

**METHANE CODE**

| ErP | 3301018 | 3301019 | 3301020 |
|---|---|---|---|
| Energy class | A | A | A |
| Domestic hot water production energy class | A | A | A |
| Consumption profiles | XL | XL | XXL |

*For complete list of accessories see page 79*

# GENUS ONE SYSTEM

## Top of the range heating only condensing boiler

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ Large touchscreen display

/ Ignition system, electronic combustion control
/ Gas transformation from the technician menu
/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:10

/ Prearranged for Ariston NET connectivity
/ BusBridgeNet® communication protocol

/ AUTO, Comfort functions
/ New CARE function, automatic scheduled maintenance reminder
/ Internal sound absorbing panels

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

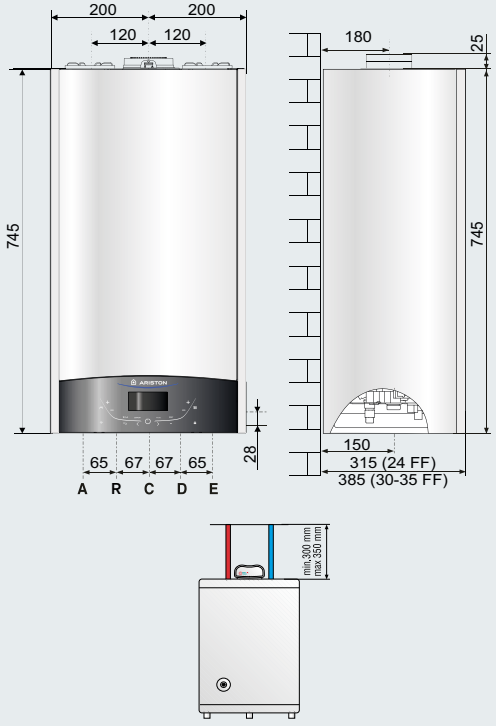
**ENERGY CLASS**

A

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE

www.tuv.com
ID 0000056520




(Boiler not included)

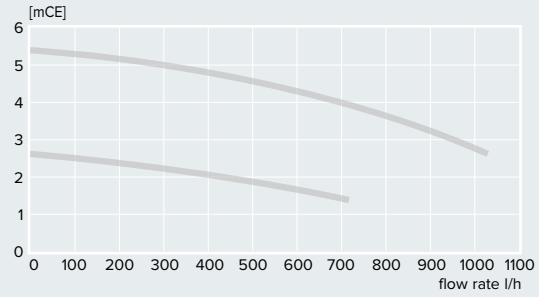
**KEY:**
A \ System flow Ø 3/4" gas (boiler flow if installed)
R \ Boiler return (if installed) Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ System fill water inlet Ø 1/2" gas
E \ System return Ø 3/4" gas

** Patent application submitted*

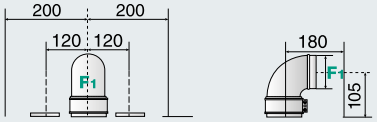
**CUBE S NET**
ROOM SENSOR
prearranged

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | SMART MENU | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

**Boiler residual head**

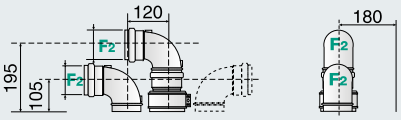



**Version** - Coaxial exhaust



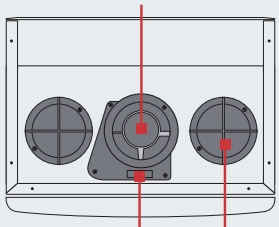

Maximum flue gas/air generation:
Ø60/100: up to 26 (12 kW) – 8 m (18-24 kW) - 7 m (30 kW) - 6 m (35 kW)
Ø80/125: up to 21 (12 kW) - 21 m (24-30 kW) - 24 m (35 kW)

**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: fup to 50 m (12-18 kW) - 60 m (24-30 kW) - 45 m (35 kW)
Ø60/60: up to 36 m (12 kW) - 14 m (18 kW) - 16 m (24 kW) - 12 m (30 kW) - 14 m (35 kW)

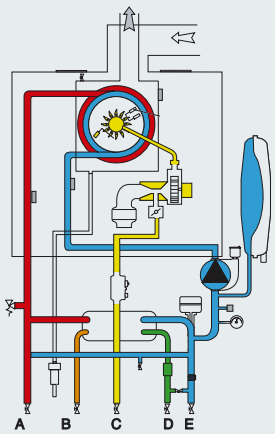
Coaxial inlet/exhaust manifold



Flue gas analysis inspection point

Air inlet for split exhaust systems

**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| GENUS ONE SYSTEM 24 | 14 |
| GENUS ONE SYSTEM 30 - 35 | 12 |

| TECHNICAL DATA | | 12 | 18 | 24 | 30 | 35 |
|---|---|---|---|---|---|---|
| **GENERAL** | | | | | | |
| EC certification no. | | | | 0085CR0394 | | |
| Boiler type | | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X)C83(X)-C93(X) B23-B23P-B33 | | |
| **POWER SPECIFICATIONS** | | | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 12.0/2.5 | 18.0/2.5 | 22.0/2.5 | 28.0/3.0 | 31.0/3.5 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 13.3/2.8 | 20.0/2.8 | 24.4/2.8 | 31.1/3.0 | 34.4/3.9 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 12.0/2.5 | 18.0/2.5 | 26.0/2.5 | 30.0/3.0 | 34.5/3.5 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 13.3/2.8 | 20.0/2.8 | 28.9/2.8 | 33.3/3.3 | 38.3/3.9 |
| Max/min power output (80°C-60°C) Pn | kW | 11.8/2.3 | 17.5/2.3 | 21.5/2.3 | 27.5/2.8 | 30.3/3.3 |
| Max/min power output (50°C-30°C) Pn | kW | 13.0/2.6 | 19.5/2.6 | 23.6/2.6 | 30.3/3.1 | 33.5/3.6 |
| Domestic hot water max/min power output Pn | kW | 11.5/2.6 | 17.3/2.3 | 24.9/2.4 | 28.7/2.9 | 33.1/3.4 |
| Combustion efficiency (of flue gas) | % | 98.2 | 97.9 | 97.4 | 97.8 | 97.8 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 98.2/88.4 | 97.4/87.7 | 97.7/87.9 | 98.4/88.6 | 97.7/88.0 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 108.4/97.6 | 108.1/97.4 | 107.4/96.7 | 108.3/97.5 | 108.0/97.2 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.3/98.4 | 109.6/98.7 | 109.8/98.9 | 109.5/98.6 | 109.5/98.6 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 92.8/83.6 | 91.9/82.9 | 91.1 / 82.0 | 93.0/83.8 | 93.5/84.2 |
| Efficiency rating (dir. 92/42/EEC) | stars | | | ★★★★ | | |
| Loss of burner gas when operating | % | 1.8 | 2.1 | 2.6 | 2.2 | 2.2 |
| **EMISSIONS** | | | | | | |
| Available air pressure | Pa | 100 | 100 | 100 | 100 | 100 |
| NOx class | class | | | 5 | | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 56 | 62 | 70 | 66 | 66 |
| CO2 content (G20) (80°C-60°C) | % | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| CO content (0%O2) (80°C-60°C) | ppm | 39.2 | 63.5 | 80.1 | 102.2 | 98.8 |
| CO2 content (G20) (80°C-60°C) | % | 5.1 | 5.4 | 5.4 | 3.8 | 4.5 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 20.5 | 31.3 | 44.9 | 47.6 | 55.7 |
| Excess air (80°C-60°C) | % | 32 | 34 | 34 | 22 | 27 |
| **HEATING CIRCUIT** | | | | | | |
| Expansion chamber inflation pressure | bar | | | 1 | | |
| Maximum heating pressure | bar | | | 3 | | |
| Expansion chamber capacity | l | | | 8 | | |
| Min/max heating temperature (high temperature range) | °C | | | 35/82 | | |
| Min/max heating temperature (low temperature range) | °C | | | 20/45 | | |
| **ELECTRICAL** | | | | | | |
| Power supply frequency/voltage | V/Hz | | | 230/50 | | |
| Total electrical power absorbed | W | 67 | 61 | 80 | 91 | 82 |
| Minimum ambient temperature for use | °C | | | > 0 | | |
| Protection level for the electrical appliance | IP | | | X5D | | |
| Weight | kg | 29.7 | 29.7 | 29.7 | 32.3 | 34.6 |

**METHANE CODE**

| | | | | | |
|---|---|---|---|---|---|
| | 3301025 | 3301026 | 3301027 | 3301028 | 3301029 |
| Energy class | A | A | A | A | A |

*For complete list of accessories see page 79*

# CLAS ONE NET

## Condensing boiler with Auto function

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ LCD Display

/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:7

/ Prearranged for Ariston NET connectivity
/ BusBridgeNet® communication protocol

/ AUTO, Comfort functions
/ Optimised internal silencer

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

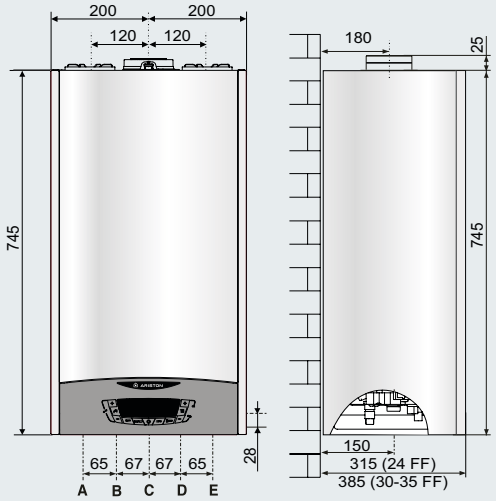
**ENERGY CLASS**

A

A

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE

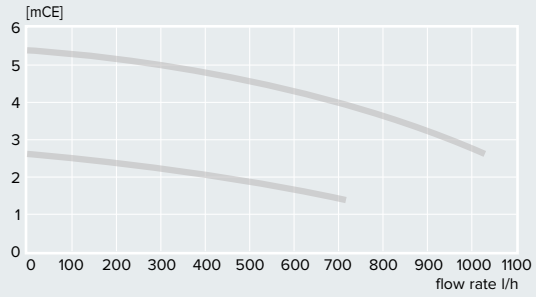



**KEY:**
A \ System flow Ø 3/4" gas
B \ Domestic hot water outlet Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ Domestic Hot water intake Ø 1/2" gas
E \ System return Ø 3/4" gas

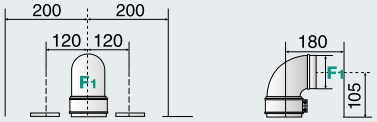

** Patent application submitted*

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | EASY TO USE | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

**Boiler residual head**

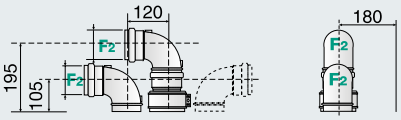



**Version** - Coaxial exhaust



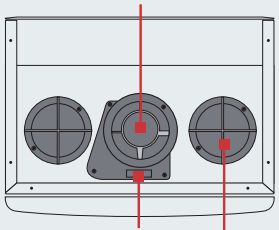

Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 7 m (35 kW)
Ø80/125: up to 33 m (24 kW) - 24 m (30 kW) - 27 m (35 kW)

**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24 kW) - 50 m (30 kW) - 35 m (35 kW)
Ø60/60: up to 14 m (24 kW) - 14 m (30 kW) - 12 m (35 kW)

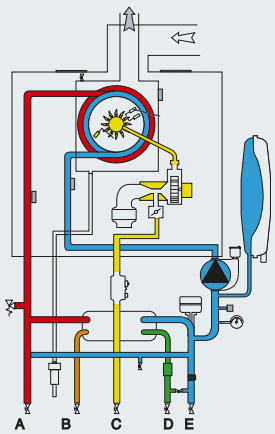
Coaxial inlet/exhaust manifold



Flue gas analysis inspection point

Air inlet for split exhaust systems

**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| CLAS ONE 24 | 14 |
| CLAS ONE 30 | 12 |

| TECHNICAL DATA | | 24 | 30 |
|---|---|---|---|
| **GENERAL** | | | |
| EC certification no. | | 0085CR0393 | |
| Boiler type | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X) C83(X)-C93(X) - B23-B23P-B33 | |
| **POWER SPECIFICATIONS** | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 22.0/3.7 | 28.0/4.3 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 24.4/4.1 | 31.1/4.8 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 26.0/3.7 | 30.0/4.3 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 28.9/4.1 | 33.3/4.8 |
| Max/min power output (80°C-60°C) Pn | kW | 21.4/3.4 | 27.4/3.9 |
| Max/min power output (50°C-30°C) Pn | kW | 23.6/3.9 | 30/4.5 |
| Domestic hot water max/min power output Pn | kW | 24.9/3.5 | 28.7/4.1 |
| Combustion efficiency (of flue gas) | % | 98 | 98 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.5/87.8 | 97.9/88.2 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.3/96.7 | 107.3/96.6 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.8/98.9 | 109.6/98.7 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 93.1/83.8 | 91.1/82 |
| Efficiency rating (dir. 92/42/EEC) | stars | ★★★★ | |
| Loss of burner gas when operating | % | 2 | 2 |
| **EMISSIONS** | | | |
| Available air pressure | Pa | 100 | 100 |
| NOx class | class | 5 | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 61 | 62 |
| CO2 content (G20) (80°C-60°C) | % | 9.2/8.9 | |
| CO content (0%O2) (80°C-60°C) | ppm | 141.8 | 123.8 |
| CO2 content (G20) (80°C-60°C) | % | 3.9 | 4.2 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 42.1 | 48.6 |
| Excess air (80°C-60°C) | % | 23 | 25 |
| **HEATING CIRCUIT** | | | |
| Expansion chamber inflation pressure | bar | 1 | |
| Maximum heating pressure | bar | 3 | |
| Expansion chamber capacity | l | 8 | |
| Min/max heating temperature (high temperature range) | °C | 35/82 | |
| Min/max heating temperature (low temperature range) | °C | 20/45 | |
| **DOMESTIC HOT WATER** | | | |
| Domestic hot water max/min temperature | °C | 36/60 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 12.1 | 14.5 |
| Quantity of hot water ΔT=25°C | l/min | 14.5 | 17.4 |
| Quantity of hot water ΔT=35°C | l/min | 10.4 | 12.5 |
| Hot water comfort rating (EN13203) | stars | ★★★ | |
| Hot water minimum flow rate | l/min | 2 | |
| Domestic hot water max/min pressure | bar | 7/0.2 | |
| **ELECTRICAL** | | | |
| Power supply frequency/voltage | V/Hz | 230/50 | |
| Total electrical power absorbed | W | 104 | 114 |
| Minimum ambient temperature for use | °C | > 0 | |
| Protection level for the electrical appliance | IP | X5D | |
| Weight | kg | 29.7 | 32.3 |

**METHANE CODE**

| | | | |
|---|---|---|---|
| ErP | | 3301116 | 3301116 |
| | Energy class | A | A |
| | Domestic hot water production energy class | A | A |
| | Consumption profiles | XL | XL |

*For complete list of accessories see page 79*

# CLAS ONE

## Condensing boiler with Auto function

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ LCD Display

/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:7

/ BusBridgeNet® communication protocol

/ AUTO, Comfort functions
/ Optimised internal silencer

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

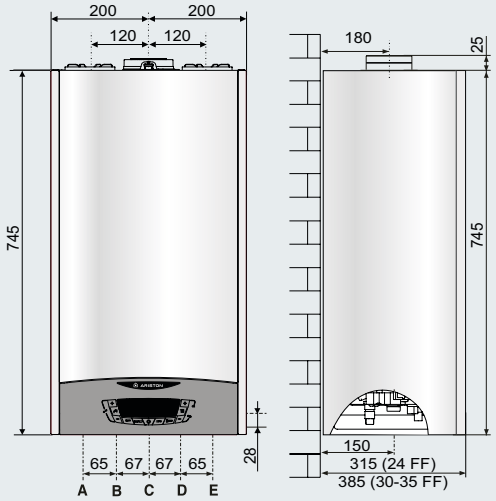
**ENERGY CLASS**

A

A

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE

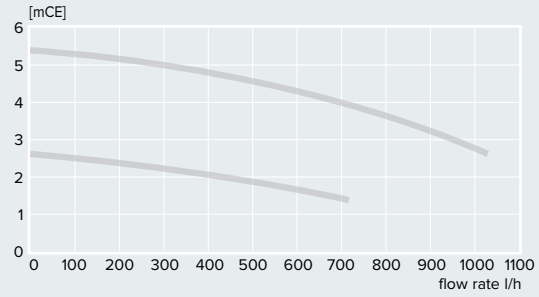



**KEY:**
A \ System flow Ø 3/4" gas
B \ Domestic hot water outlet Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ Domestic Hot water intake Ø 1/2" gas
E \ System return Ø 3/4" gas

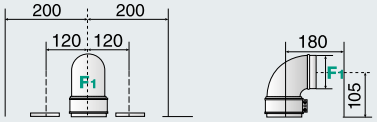
** Patent application submitted*

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | EASY TO USE | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

### Boiler residual head

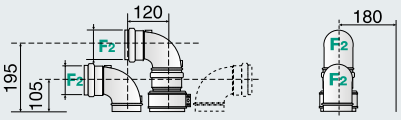



### Version - Coaxial exhaust

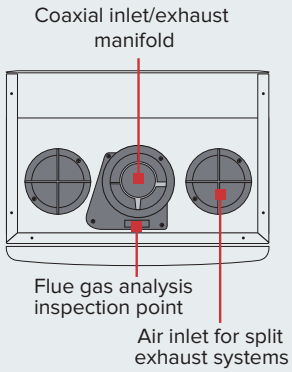



Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (30 kW) - 7 m (35 kW)
Ø80/125: up to 33 m (24 kW) - 24 m (30 kW) - 27 m (35 kW)

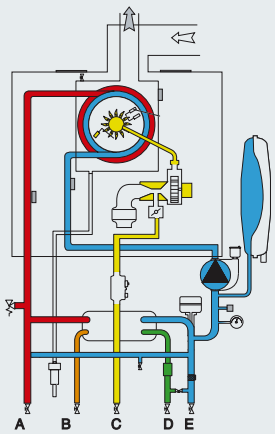
### Versions - Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24 kW) - 50 m (30 kW) - 35 m (35 kW)
Ø60/60: up to 14 m (24 kW) - 14 m (30 kW) - 12 m (35 kW)




### Hydraulic circuit diagram




| Description | N° of boilers per pallet |
|---|---|
| CLAS ONE 24 | 14 |
| CLAS ONE 30 - 35 | 12 |

| TECHNICAL DATA | | 24 | 30 | 35 |
|---|---|---|---|---|
| **GENERAL** | | | | |
| EC certification no. | | | 0085CR0393 | |
| Boiler type | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X) C83(X)-C93(X) - B23-B23P-B33 | |
| **POWER SPECIFICATIONS** | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 22.0/3.7 | 28.0/4.3 | 31.0/5.0 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 24.4/4.1 | 31.1/4.8 | 34.4/5.6 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 26.0/3.7 | 30.0/4.3 | 34.5/5.0 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 28.9/4.1 | 33.3/4.8 | 38.3/5.6 |
| Max/min power output (80°C-60°C) Pn | kW | 21.4/3.4 | 27.4/3.9 | 30.2/4.7 |
| Max/min power output (50°C-30°C) Pn | kW | 23.6/3.9 | 30/4.5 | 33.5/5.3 |
| Domestic hot water max/min power output Pn | kW | 24.9/3.5 | 28.7/4.1 | 33.0/4.8 |
| Combustion efficiency (of flue gas) | % | 98 | 98 | 97.9 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.5/87.8 | 97.9/88.2 | 97.5/87.8 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.3/96.7 | 107.3/96.6 | 108.2/97.4 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.8/98.9 | 109.6/98.7 | 109.6/98.7 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 93.1/83.8 | 91.1/82 | 93.3/84 |
| Efficiency rating (dir. 92/42/EEC) | stars | | ★★★★ | |
| Loss of burner gas when operating | % | 2 | 2 | 2.1 |
| **EMISSIONS** | | | | |
| Available air pressure | Pa | 100 | 100 | 100 |
| NOx class | class | | 5 | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 61 | 62 | 63 |
| CO2 content (G20) (80°C-60°C) | % | | 9.2/8.9 | |
| CO content (0%O2) (80°C-60°C) | ppm | 141.8 | 123.8 | 106.5 |
| CO2 content (G20) (80°C-60°C) | % | 3.9 | 4.2 | 4.3 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 42.1 | 48.6 | 56.1 |
| Excess air (80°C-60°C) | % | 23 | 25 | 26 |
| **HEATING CIRCUIT** | | | | |
| Expansion chamber inflation pressure | bar | | 1 | |
| Maximum heating pressure | bar | | 3 | |
| Expansion chamber capacity | l | | 8 | |
| Min/max heating temperature (high temperature range) | °C | | 35/82 | |
| Min/max heating temperature (low temperature range) | °C | | 20/45 | |
| **DOMESTIC HOT WATER** | | | | |
| Domestic hot water max/min temperature | °C | | 36/60 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 12.1 | 14.5 | 16.7 |
| Quantity of hot water ΔT=25°C | l/min | 14.5 | 17.4 | 20 |
| Quantity of hot water ΔT=35°C | l/min | 10.4 | 12.5 | 14.3 |
| Hot water comfort rating (EN13203) | stars | | ★★★ | |
| Hot water minimum flow rate | l/min | | 2 | |
| Domestic hot water max/min pressure | bar | | 7/0.2 | |
| **ELECTRICAL** | | | | |
| Power supply frequency/voltage | V/Hz | | 230/50 | |
| Total electrical power absorbed | W | 104 | 114 | 115 |
| Minimum ambient temperature for use | °C | | > 0 | |
| Protection level for the electrical appliance | IP | | X5D | |
| Weight | kg | 29.7 | 32.3 | 34.6 |

### METHANE CODE

| | 3301021 | 3301022 | 3301023 |
|---|---|---|---|
| Energy class | A | A | A |
| Domestic hot water production energy class | A | A | A |
| Consumption profiles | XL | XL | XXL |

*For complete list of accessories see page 79*

# CLAS ONE SYSTEM

## Condensing boiler with Auto heating function only

ENERGY CLASS

A

/ New stainless steel XtraTech™ heat exchanger exclusive* to Ariston, with high head
/ Heat exchanger flow sections **+142%** compared to previous version
/ LCD Display

/ Classe A+ heating achievable with thermal regulation
/ Modulation ratio 1:7

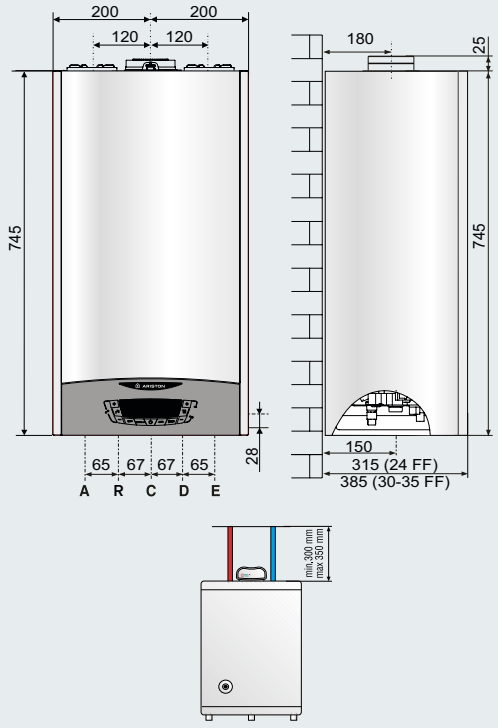
/ Prearranged for Ariston NET connectivity
/ BusBridgeNet® communication protocol

/ AUTO function
/ Optimised internal silencer

/ Installation in partially protected areas
/ Flue gas discharge 80, 60, 50 mm

**New XtraTech™ stainless steel heat exchanger**

TÜV RHEINLAND GROUP PERFORMANCE CERTIFICATE




(Boiler not included)

**KEY:**

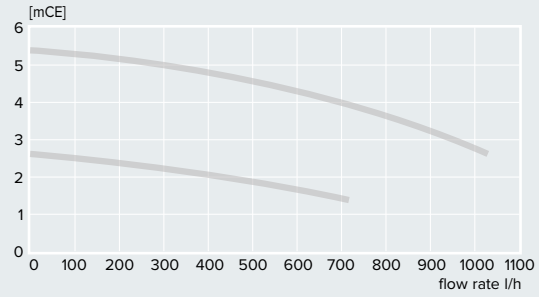
A \ System flow Ø 3/4" gas (boiler flow if installed)
R \ Boiler return (if installed) Ø 1/2" gas
C \ Gas inlet Ø 3/4" gas
D \ System fill water inlet Ø 1/2" gas
E \ System return Ø 3/4" gas

** Patent application submitted*

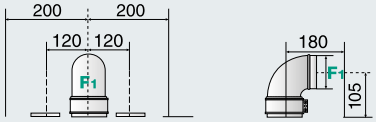
**CUBE S NET**
ROOM SENSOR
prearranged

SUPER SILENT | ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | EASY TO USE | SIMPLE INSTALLATION | EASY MAINTENANCE | SYSTEM CONTROL | COMPACT SIZE

**Boiler residual head**

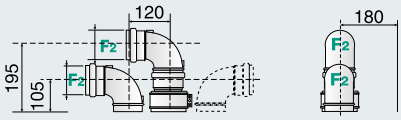



**Version** - Coaxial exhaust

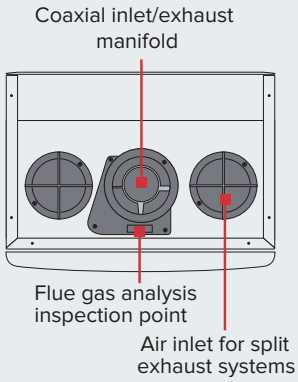



Maximum flue gas/air generation:
Ø60/100: up to 8 m (24 kW) - 7 m (35 kW)
Ø80/125: up to 33 m (24 kW) - 27 m (35 kW)

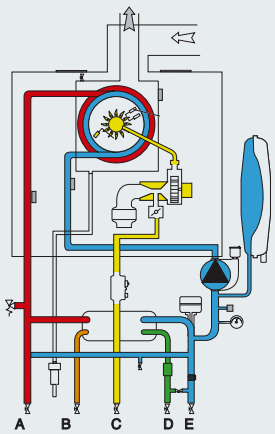
**Versions -** Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 60 m (24 kW) - 35 m (35 kW)
Ø60/60: up to 14 m (24 kW) - 12 m (35 kW)




**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| CLAS ONE SYSTEM 18-24-30-35 | 14 |

| TECHNICAL DATA | | 18 | 24 | 30 | 35 |
|---|---|---|---|---|---|
| **GENERAL** | | | | | |
| EC certification no. | | | 0085CR0393 | | |
| Boiler type | | | C13(X)-C23-C33(X)-C43(X)-C53(X)-C63(X) C83(X)-C93(X)-B23-B23P-B33 | | |
| **POWER SPECIFICATIONS** | | | | | |
| Max/min nominal calorific flow rate (Pci) Qn | kW | 18.0/3.7 | 22.0/3.7 | 28.0/4.3 | 31.0/5.0 |
| Max/min nominal calorific flow rate (Pcs) Qn | kW | 20.0/4.1 | 24.4/4.1 | 31.1/4.8 | 34.4/5.6 |
| Domestic hot water max/min nominal calorific flow rate (Pci) Qn | kW | 18.0/3.7 | 26.0/3.7 | 30.0/4.3 | 34.5/5.0 |
| Domestic hot water max/min nominal calorific flow rate (Pcs) Qn | kW | 20.0/4.1 | 28.9/4.1 | 33.3/4.8 | 38.3/5.6 |
| Max/min power output (80°C-60°C) Pn | kW | 17.6/3.4 | 21.4/3.4 | 27.4/3.9 | 30.2/4.7 |
| Max/min power output (50°C-30°C) Pn | kW | 19.4/3.9 | 23.6/3.9 | 30/4.5 | 33.5/5.3 |
| Domestic hot water max/min power output Pn | kW | 17.2/3.4 | 24.9/3.5 | 28.7/4.1 | 33.0/4.8 |
| Combustion efficiency (of flue gas) | % | 98.1 | 98 | 98 | 97.9 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97.6/87.9 | 97.5/87.8 | 97.9/ 88.2 | 97.5/87.8 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 107.6/96.9 | 107.3/96.7 | 107.3/96.6 | 108.2/97.4 |
| Efficiency at 30% at 30°C (condensation) Hi/Hs | % | 109.4/98.5 | 109.8/98.9 | 109.6/98.7 | 109.6/98.7 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 93.1/83.8 | 93.1/83.8 | 91.1/82 | 93.3/84 |
| Efficiency rating (dir. 92/42/EEC) | stars | | ★★★★ | | |
| Loss of burner gas when operating | % | 1.9 | 2 | 2 | 2.1 |
| **EMISSIONS** | | | | | |
| Available air pressure | Pa | 100 | 100 | 100 | 100 |
| NOx class | class | | 5 | | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 60 | 61 | 62 | 63 |
| CO2 content (G20) (80°C-60°C) | % | | 9.2/8.9 | | |
| CO content (0%O2) (80°C-60°C) | ppm | 109.4 | 141.8 | 123.8 | 106.5 |
| CO2 content (G20) (80°C-60°C) | % | 4 | 3.9 | 4.2 | 4.3 |
| Maximum flue gas flow (G20) (80°C-60°C) | kg/h | 28.8 | 42.1 | 48.6 | 56.1 |
| Excess air (80°C-60°C) | % | 23 | 23 | 25 | 26 |
| **HEATING CIRCUIT** | | | | | |
| Expansion chamber inflation pressure | bar | | 1 | | |
| Maximum heating pressure | bar | | 3 | | |
| Expansion chamber capacity | l | | 8 | | |
| Min/max heating temperature (high temperature range) | °C | | 35/82 | | |
| Min/max heating temperature (low temperature range) | °C | | 20/45 | | |
| **ELECTRICAL** | | | | | |
| Power supply frequency/voltage | V/Hz | | 230/50 | | |
| Total electrical power absorbed | W | 97 | 104 | 114 | 115 |
| Minimum ambient temperature for use | °C | | > 0 | | |
| Protection level for the electrical appliance | IP | | X5D | | |
| Weight | kg | 29.7 | 29.7 | 32.3 | 34.6 |

**METHANE CODE**

| ErP | 3301030 | 3301031 | 3301035 | 3301032 |
|---|---|---|---|---|
| Energy class | A | A | A | A |

*For complete list of accessories see page 79*

# CARES PREMIUM

## Compact condensing boiler

/ Aluminium-silicon condensing heat exchanger
/ Mini LCD display

/ Modulation ratio 1:4
/ Silent and compact

/ BusBridgeNet® communication protocol

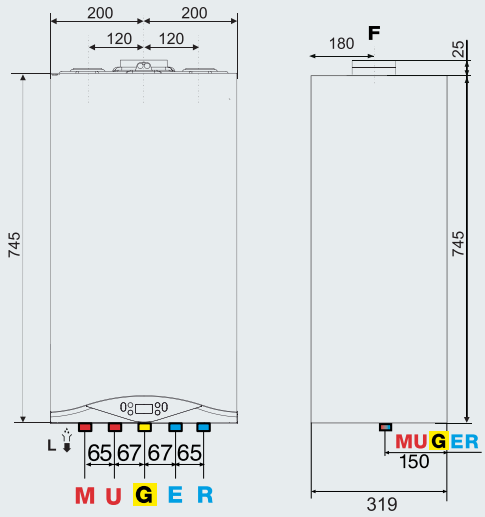
/ Flue gas discharge 80, 60 mm

**NEW models only:**
/ Installation in partially protected areas
/ **MET functionality with standard kit**

**ENERGY CLASS**

A

A

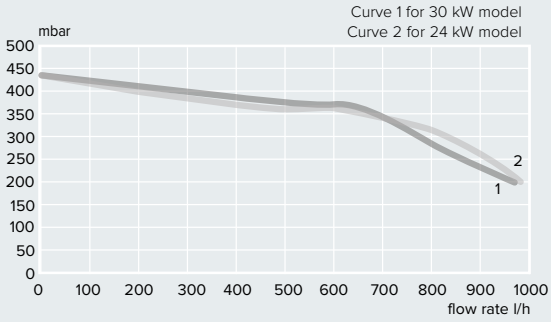



**KEY:**

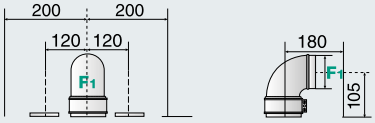
M \ Ø 3/4" system flow gas
U \ Ø 1/2" domestic hot water outlet gas
G \ Ø 3/4" gas inlet gas
E \ Ø 1/2" domestic hot water intake gas
R \ Ø 3/4" system return gas
F \ Flue gas exhaust (Ø mm)
F1: 60/100-80/125 (FF)
F2: 80/80 (FF)

HIGH EFFICIENCY | MODULATING CIRCULATION PUMP | SYSTEM CONTROL | MADE IN ITALY | COMPACT SIZE

**Boiler residual head**

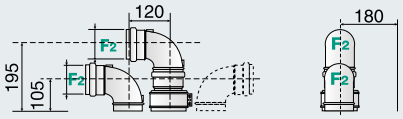



**Version** - Coaxial exhaust



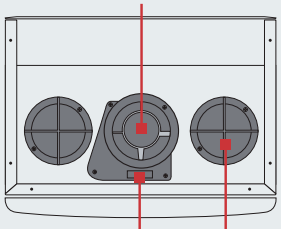

Maximum flue gas/air generation:
Ø60/100: up to 10 m
Ø80/125: up to 25 m

**FF Versions** - Split exhaust




Maximum flue gas/air generation:
Ø80/80: up to 42 m
Ø60/60: up to 20 m (24 kW) - 12 m (30 kW)

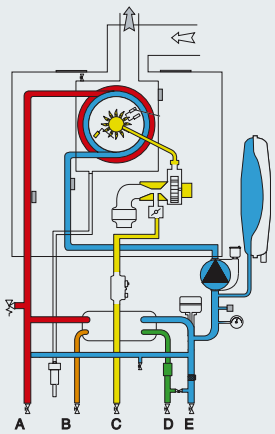
Coaxial inlet/exhaust manifold



Flue gas analysis inspection point

Air inlet for split exhaust systems

**Hydraulic circuit diagram**




| Description | N° of boilers per pallet |
|---|---|
| CARES PREMIUM 24-30 | 14 |

| TECHNICAL DATA | | 24 | 30 |
|---|---|---|---|
| **CHAMBER** | | **sealed** | **sealed** |
| **ELECTRICAL PERFORMANCE** | | | |
| Max/min PCI nominal heat output in heating mode | kW | 23/5.5 | 29.0/6.0 |
| Max/min PCI nominal heat output in hot water mode | kW | 23.5/5.5 | 29.0/6.0 |
| Max/min heating power (80°C-60°C) | kW | 22.9/5.3 | 28.4/5.8 |
| Max./min. heat output (50°C-30°C) | kW | 24.4/5.9 | 30.2/6.4 |
| Max/min domestic hot water heating power | kW | 23.0/5.3 | 28.4/5.8 |
| Combustion efficiency (at flue) | % | 97.9 | 98 |
| Nominal heat output efficiency (60/80°C) PCI | % | 97.5 | 97.8 |
| Nominal heat output efficiency (30/50°C) PCI | % | 103.9 | 104.0 |
| Efficiency at 30 % at 30°C PCI | % | 108.2 | 108.0 |
| Minimum efficiency (60/80°C) | % | 96.1 | 96.0 |
| Efficiency star rating (Directive 92/42/EEC) | | ★★★★ | ★★★★ |
| Class Sedbuk | | A | A |
| Heat loss through flue gas exhaust when burner operating | % | 2.2 | 2.2 |
| **EMISSIONS** | | | |
| Residual discharge head | Pa | 100 | 100 |
| Nox class | class | 5 | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 65 | 61 |
| CO2 content (G20) (80°C-60°C) | % | 9.4 | 9.4 |
| CO content (0%O2) (80°C-60°C) | ppm | 177 | 177 |
| O2 content (G20) (80°C-60°C) | % | 3.8 | 3.8 |
| Max flue gas flow rate (G20) (80°C-60°C) | kg/h | 37.2 | 46.0 |
| Excess air (80°C-60°C) | % | 22 | 22 |
| **OPERATIONAL FEATURES** | | | |
| Methane gas supply pressure (G20) | mbar | 20 | 20 |
| **HEATING CIRCUIT** | | | |
| Min/max heating temperature (high temperature range) | °C | 35/82 | 35/82 |
| Min/max heating temperature (low temperature range) | °C | 25/45 | 25/45 |
| Expansion vessel pre-charged pressure | bar | 1 | 1 |
| Maximum central heating circuit pressure | bar | 3 | 3 |
| Expansion vessel capacity | l | 8 | 8 |
| **DOMESTIC HOT WATER CIRCUIT** | | | |
| Min/max domestic hot water temperature | °C | 36/60 | 36/60 |
| **CONDENSATE** | | | |
| Max. condensate production | l/h | 2.4 | 2.4 |
| Condensate PH | PH | 2.6 | 2.6 |
| **ELECTRICAL DATA** | | | |
| Pressure/Power frequency | V/Hz | 230/50 | 230/50 |
| Total power consumption | W | 87 | 82 |
| Minimum room temperature for operation | °C | 5 | 5 |
| Electrical system protection rating | IP | X5D | X5D |
| **WEIGHT AND DIMENSIONS** | | | |
| Weight | kg | 24 | 27 |
| Dimensions (W x H x D) | mm | 770/400/315 | 770/400/315 |

**CODE**

| | | | |
|---|---|---|---|
| ErP | | 3300759 | 3301022 |
| | Energy class | A | A |
| | Domestic hot water production energy class | A | A |
| | Consumption profiles | XL | XL |

*For complete list of accessories see page 79*

# CLAS B PREMIUM EVO

## Condensing wall-hung boiler with 40 lt integrated storage

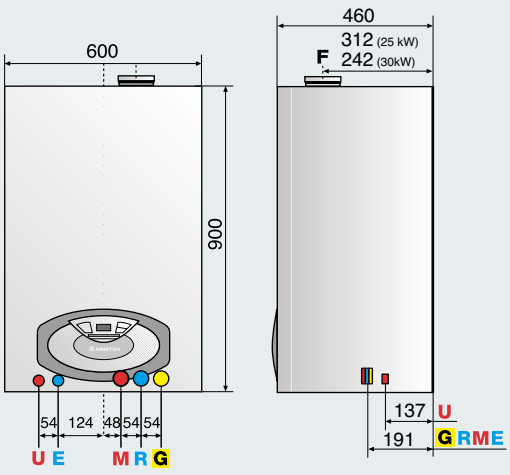
ENERGY CLASS

A

A

/ **35% energy saving** on your gas bill through condensing technology

/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption
/ **"Comfort Function"**, instantaneous hot water for 30', after first withdrawal, reducing waiting time
/ With **the addition of The Sensys**, the system interface, it's possible to have **full remote control** of the boiler
/ **BUS Inteface** included
/ 1:4 modulation ratio
/ Backlit **LCD display**
/ **Very big amount of domestic hot water**
/ Suitable for **heating large areas**
/ High reliability and very long lifecycle
/ **Very accurate air flow** in order to allow a good combustion
/ Anti-freezing systems preventing freezing and scale accumulation
/ Easy check of combustion quality with an external analysis

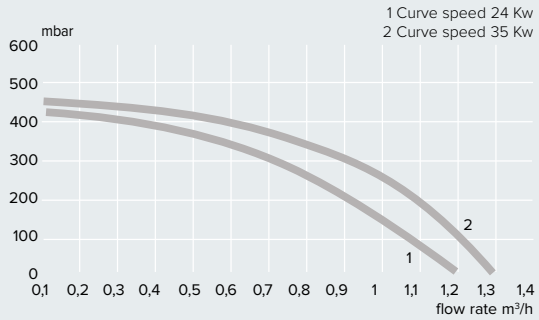



**LEGEND**

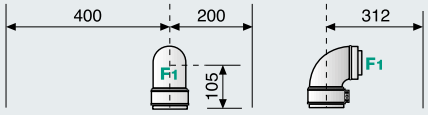
M: Central heating flow line Ø 3/4"
U: Domestic hot water outlet Ø 1/2"
G: Gas connector Ø 3/4"
E: Domestic hot water inlet Ø 1/2"
R: Central heating return Ø 3/4"
F: Flue (Ø mm)
F1: 60/100 - 80/125
F2: 80 - 80

FULL MODULATING PUMP | ENERGY EFFICIENT | MADE IN ITALY | SUPER SILENT | AUTO FUNCTION | ENERGY SAVING | LOW EMISSIONS

**Graph of boiler's residual head**

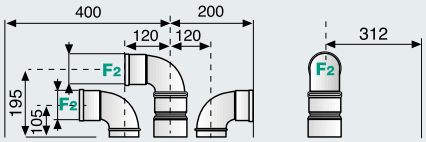



**Version** - Coaxial exhaust




Ø 60/100: up to 12m (24 kW), 8m (35 kW)
Ø 80/125: up to 36m (24 kW), 24m (35 kW)

**FF Versions -** Twin pipes exhaust




Ø 80/80: up to 36m (24 kW), 24m (35 kW)

| TECHNICAL DATA | | 24 | 35 |
|---|---|---|---|
| **POWER SPECIFICATIONS** | | | |
| Max/min nominal calorific flow rate (Hi) | kW | 22,0/5,5 | 31,0/7,0 |
| Max/min nominal calorific flow rate (Hs) | kW | 24,4/6,1 | 34,4/7,8 |
| Domestic hot water max/min nominal calorific flow rate (Hi) | kW | 25,0/5,5 | 34,5/7,0 |
| Domestic hot water max/min nominal calorific flow rate (Hs) | kW | 27,8/6,1 | 38,3/7,8 |
| Max/min power output (80°C-60°C) | kW | 21,5/5,4 | 30,2/6,8 |
| Max/min power output (50°C-30°C) | kW | 23,3/5,7 | 33,0/7,4 |
| Domestic hot water max/min power output | kW | 25,4/5,4 | 33,7/6,8 |
| Combustion efficiency (of flue gas) | % | 97,8 | 97,9 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,5/87,8 | 97,6/87,9 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 105,8/95,3 | 106,4/95,8 |
| Efficiency at 30% at 30°C Hi/Hs | % | 109,0/98,2 | 107,9/97,2 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,6/88,0 | 97,5/87,8 |
| Efficiency rating (dir. 92/42/EEC) | | **** | **** |
| Sedbuk class | classe | A/90,0 | A/90,1 |
| Loss of burner gas when operating | % | 2,2 | 2,2 |
| **EMISSIONS** | | | |
| Available air pressure | Pa | 100 | 100 |
| NoX class | class | 5 | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 64 | 64 |
| CO2 content (G20) (80°C-60°C) | % | 9,0 | 9,0 |
| CO content (0%O2) (80°C-60°C) | ppm | 119 | 119 |
| O2 content (G20) (80°C-60°C) | % | 4,5 | 4,5 |
| Maximum flue gas flow (G20) (80°C-60°C) | Kg/h | 42,8 | 56,9 |
| Excess air (80°C-60°C) | % | 27 | 27 |
| **HEATING CIRCUIT** | | | |
| Expansion chamber inflation pressure | bar | 1 | 1 |
| Maximum heating pressure | bar | 3 | 3 |
| Expansion chamber capacity | l | 12 | 12 |
| Min/max heating temperature (high temperature range) | °C | 35/82 | 35/82 |
| Min/max heating temperature (low temperature range) | °C | 20/45 | 20/45 |
| **DOMESTIC HOT WATER CIRCUIT** | | | |
| Domestic hot water max/min temperature | °C | 40/65 | 40/65 |
| Storage litrage | l | 20+20 | 20+20 |
| Specific flow rate of domestic hot water (10 min - ΔT=30°C) | l/min | 18,8 | 22,1 |
| Quantity of hot water ΔT=25°C | l/min | 14,5 | 19,3 |
| Quantity of hot water ΔT=35°C | l/min | 10,4 | 13,8 |
| Hot water comfort rating (EN13203) | | *** | *** |
| Hot water minimum flow rate | l/min | <2 | <2 |
| Domestic hot water max/min pressure | bar | 7/0,3 | 7/0,3 |
| **ELECTRICAL** | | | |
| Power supply frequency/voltage | V/Hz | 230/50 | 230/50 |
| Total electrical power absorbed | W | 110 | 120 |
| Minimum ambient temperature for use | °C | +5 | +5 |
| Protection level for the electrical appliance | IP | X5D | X5D |
| Weight | kg | 58 | 61 |

**CODE**

| ErP | 3300608 | 3300609 |
|---|---|---|
| Energy class | A | A |
| Tapping profile | XL | XL |

*For complete list of accessories see page 79*

# GENUS PREMIUM EVO FS/SOLAR FS

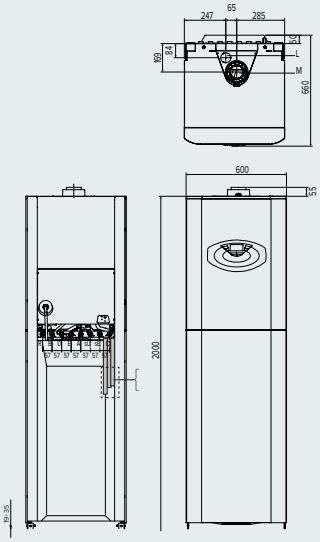
## Condensing boiler with stratification tank for integration with forced circulation solar systems

/ **35% energy saving** on your gas bill through condensing technology

/ Equipped to connect with a **solar system** to exploit the solar energy
/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption
/ **Best enjoyable design** of its category
/ **The Sensys**, the system interface included in the solar version, allows **an easy navigation and a full control** of the working conditions
/ **BusBridge Net** communication protocol

/ **Very accurate power adjustment** thanks to the **1:10** modulation ratio
/ **"Comfort Function"**, instantaneous hot water for 30', after first withdrawal, eliminating waiting time
/ A big amount of hot water is provided
/ High reliability and very long lifecycle
/ Protection from water impurities accumulation and corrosion
/ Anti-freezing systems preventing freezing and scale accumulation
/ **IPX5D** protects it against water jet streams (only FF version)

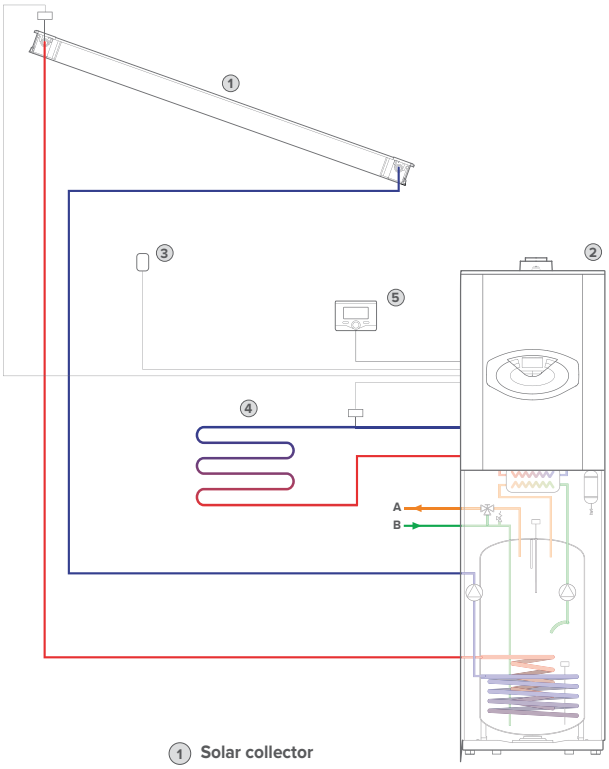
**Genus Premium Evo Solar FS**




**LEGEND**

A: Central Heating Flow
B: Domestic Hot Water Outlet
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return
R: Tank Return
sE: Solar circuit inlet
sU: Solar circuit outlet
L: Twin-pipe Ø 80 System (optional)
M: Connection air suction/flue gas exhaust ducting (80/125)

Back discharges
S1: Condensate discharge
S2: C.H. Safety valve discharge
S3: D.H.W. Safety valve discharge




**LEGEND**

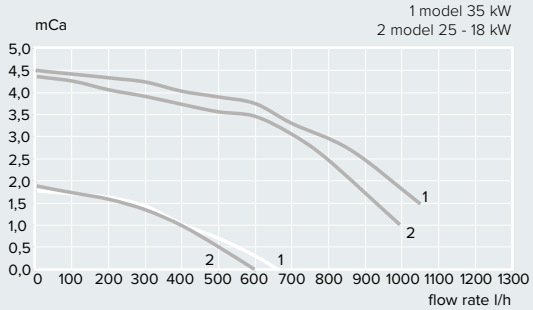
A **Domestic hot water outlet**

B **Domestic cold water inlet**

1 **Solar collector**
2 **Solar floor-standing boiler**
3 **Outdoor sensor**
4 **Low temperature zone**
5 **Zone 1 Sensys system interface**

ENERGY EFFICIENT | MODULATION RATIO | FULL MODULATING PUMP | SYSTEM MANAGEMENT | MADE IN ITALY | AUTO FUNCTION | EASY INSTALLATION | SUPER SILENT | ENERGY SAVING | LOW EMISSIONS

**Graph of boiler's residual head**




**Genus Premium Evo Solar FS**
**Version** - Coaxial exhaust

O80/125: up to 42 m (18 kW) - 36 m (25 kW) - 24 m (35 kW)
O60/100: up to 14 m (18 kW) - 12 m (25 kW) - 8 m (35 kW)

**Genus Premium Evo Solar FS**
**Version** - Twin pipe exhaust

O 80/80: up to 50m (18 kW) - 60 m (25 kW) - 45 m (35 kW)

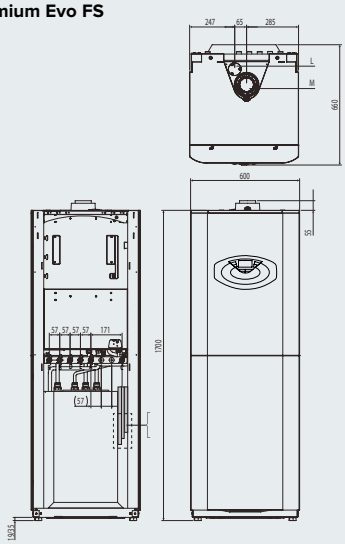
**Genus Premium Evo FS**
**Version** - Coaxial exhaust

Coaxial exhaust
O80/125: up to 43 m (18 kW) - 43 m (25 kW) - 23 m (35 kW)
O60/100: up to 43 m (18 kW) - 9 m (25 kW) - 6 m (35 kW)

**Genus Premium Evo FS**
**Version** - Twin pipe exhaust

O 80/80: up to 44m (18 kW) - 53 m (25 kW) - 27 m (35 kW)

**Genus Premium Evo FS**



**LEGEND**

A: Central Heating Flow
B: Domestic Hot Water Outlet
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return
R: Tank Return
L: Twin-pipe Ø 80 System (optional)
M: Connection air suction/flue gas exhaust ducting (80/125)

Back discharges
S1: Condensate discharge
S2: C.H. Safety valve discharge
S3: D.H.W. Safety valve discharge

| TECHNICAL DATA | | FS 18 | FS 25 | FS 35 | SOLAR FS 18 | SOLAR FS 25 | SOLAR FS 35 |
|---|---|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | | | |
| Max/min nominal calorific flow rate (Hi) | kW | 18,0/4,5 | 22,0/2,5 | 31,0/3,5 | 18,0/4,5 | 22,0/2,5 | 31,0/3,5 |
| Max/min nominal calorific flow rate (Hs) | kW | 20,0/5,0 | 24,4/2,8 | 34,4/3,9 | 20,0/5,0 | 24,4/2,8 | 34,4/3,9 |
| Domestic hot water max/min nominal calorific flow rate (Hi) | kW | 18/4,5 | 26,0/2,5 | 34,5/3,5 | 18/4,5 | 26,0/2,5 | 34,5/3,5 |
| Domestic hot water max/min nominal calorific flow rate (Hs) | kW | 20,0/5,0 | 28,9/2,8 | 38,3/3,9 | 20,0/5,0 | 28,9/2,8 | 38,3/3,9 |
| Max/min power output (80°C-60°C) | kW | 17,6/4,4 | 21,5/2,4 | 30,3/3,4 | 17,6/4,4 | 21,5/2,4 | 30,3/3,4 |
| Max/min power output (50°C-30°C) | kW | 19,1/4,7 | 23,4/2,6 | 33,0/3,6 | 19,1/4,7 | 23,4/2,6 | 33,0/3,6 |
| Domestic hot water max/min power output | kW | 17,5/4,4 | 25,4/2,4 | 33,2/3,4 | 17,5/4,4 | 25,3/2,4 | 34,1/3,4 |
| Combustion efficiency (of flue gas) | % | | | 98 | | | |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,6/87,9 | 97,8/88 | 97,7/88,0 | 97,6/87,9 | 97,8/88 | 97,7/88,0 |
| Nominal calorific flow rate efficiency (30/50°C) (condensation) Hi/Hs | % | 106,1/95,5 | 106,2/95,7 | 106,5/95,9 | 106,1/95,5 | 106,2/95,7 | 106,5/95,9 |
| Efficiency at 30% at 30°C Hi/Hs | % | 108,3/97,5 | 109,1/98,2 | 108,7/97,9 | 108,3/97,5 | 109,1/98,2 | 108,7/97,9 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,6/87,9 | 97,8/88,1 | 97,7/88 | 97,6/87,9 | 97,8/88,1 | 97,7/88 |
| Efficiency rating (dir. 92/42/EEC) | stars | | | ★★★★ | | | |
| Sedbuk class | class | | | A/90,1 | | | |
| Loss when stopped (ΔT = 50°C) | % | 0,2 | 0,4 | 0,3 | 0,2 | 0,4 | 0,3 |
| Loss of burner gas when operating | % | | | 2 | | | |
| **EMISSIONS** | | | | | | | |
| Available air pressure | Pa | 163 | 104 | 91 | 163 | 104 | 91 |
| NoX class | class | | | 5 | | | |
| Flue gas temperature (G20) (80°C-60°C) | °C | 61 | 62 | 63 | 61 | 62 | 63 |
| CO2 content (G20) (80°C-60°C) | % | 9 | 9,3 | 9,3 | 9 | 9,3 | 9,3 |
| CO content (0%O2) (80°C-60°C) | ppm | 91 | 139 | 106 | 91 | 139 | 106 |
| O2 content (G20) (80°C-60°C) | % | 4,5 | 4 | 4 | 4,5 | 4 | 4 |
| Maximum flue gas flow (G20) (80°C-60°C) | Kg/h | 29,7 | 41,6 | 55,2 | 29,7 | 41,6 | 55,2 |
| Excess air (80°C-60°C) | % | 27 | 23 | 23 | 27 | 23 | 23 |
| Expansion chamber inflation pressure | bar | | | 1 | | | |
| Maximum heating pressure | bar | | | 3 | | | |
| Expansion chamber capacity | l | | | 12 | | | |
| **HEATING CIRCUIT** | | | | | | | |
| Expansion chamber inflation pressure | bar | | | 1 | | | |
| Maximum heating pressure | bar | | | 3 | | | |
| Expansion chamber capacity | l | | | 12 | | | |
| Min/max heating temperature (high temperature range) | °C | | | 35/82 | | | |
| Min/max heating temperature (low temperature range) | °C | | | 20/45 | | | |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | | | |
| Domestic hot water max/min temperature | °C | | | 36/60 | | | |
| Stored D.H.W. cylinder capacity | l | | 105 | | | 180 | |
| Specific flow rate of domestic hot water (ΔT=30°C) | l/min | 22,4 | 23,6 | 27,5 | 26 | 26,9 | 43,9 |
| Quantity of hot water ΔT=25°C | l/min | 10 | 14,5 | 19 | 10 | 14,5 | 19,5 |
| Quantity of hot water ΔT=35°C | l/min | 7,2 | 10,4 | 13,6 | 7,2 | 10,4 | 13,9 |
| Hot water comfort rating (EN13203) | stars | *** | *** | *** | *** | *** | *** |
| Domestic hot water max/min pressure | bar | | | 7/0,3 | | | |
| **ELECTRICAL DATA** | | | | | | | |
| Power supply frequency/voltage | V/Hz | | | 230/50 | | | |
| Total electrical power absorbed | W | 100 | 110 | 115 | 160 | 165 | 170 |
| Minimum ambient temperature for use | °C | | | 5 | | | |
| Protection level for the electrical appliance | IP | | | X5D | | | |
| Weight | kg | 111 | 111 | 116 | 155 | 155 | 157 |

**CODE**

| ErP | 3300713 | 3300714 | 3300715 | 3300716 | 3300717 | 3300718 |
|---|---|---|---|---|---|---|
| Energy class | A | A | A | A | A | A |
| Tapping profile | XL | XXL | XL | XL | XXL | XL |

*For complete list of accessories see page 79*

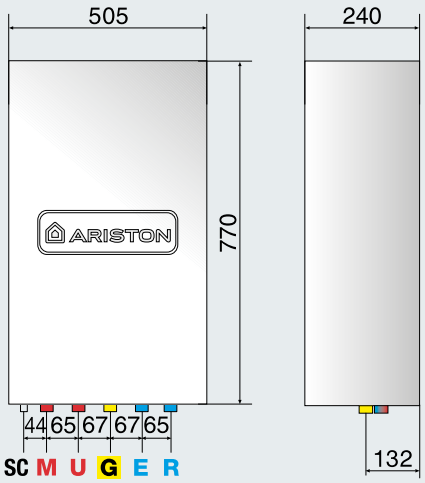
# GENUS PREMIUM EVO EXT

## Wall hung condensing boiler with AUTO function and 1:10 modulation ratio, for external use

/ **35% energy saving** on your gas bill through condensing technology

/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption
/ **"Comfort Function"**, instantaneous hot water,for 30', after first withdrawal, reducing waiting times
/ **The Sensys** system interface allows **an easy navigation and a full management** of all the parameters
/ **BusBridge Net** communication protocol

/ **Very accurate power adjustment** thanks to the **1:10** modulation ratio
/ Adaptation of boiler functioning **according to the external temperature**
/ **Detects the water lack and reintegrates** the water after end user intervention
/ Suitable for **heating large areas**
/ **Very accurate air flow** in order to allow a good combustion
/ Protection from water impurities accumulation
/ Anti-freezing systems preventing freezing and scale accumulation
/ Easy check of combustion quality with external analysis
/ Electro-zinc.plated box, **corrosion proof**, protects the boiler from weather conditions



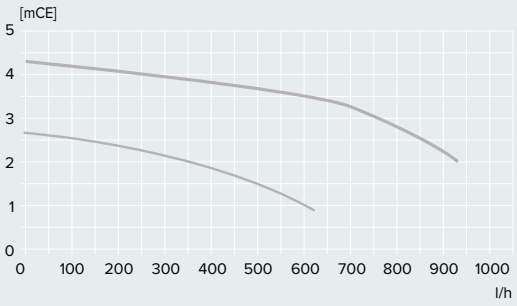

**LEGEND**

M: central heating flow line Ø 3/4" gas
U: domestic hot water outlet Ø 1/2" gas
G: gas inlet Ø 3/4" gas
E: domestic hot water inlet Ø 1/2" gas
R: central heating return Ø 3/4" gas
SC: condensation draining

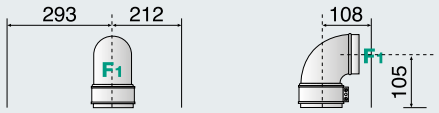
F: Flue (Ø mm)
F1: 60/100- 80/125 (FF)
F2: 80/80 (FF)

ENERGY EFFICIENT | MODULATION RATIO | FULL MODULATING PUMP | SYSTEM MANAGEMENT | COMPACT SIZE | MADE IN ITALY | OUTDOOR INSTALLATION | AUTO FUNCTION | ENERGY SAVING | LOW EMISSIONS

**Graph of boiler's residual head**

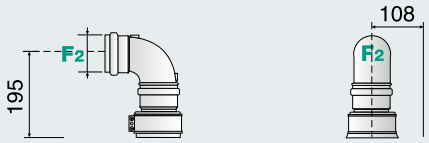



**Version** - Coaxial exhaust




Ø 60/100: up to 12 m
Ø 80/125: up to 36 m

**Version** - Twin pipe exhaust




Ø 80/80: up to 84 m

## TECHNICAL DATA 25

### POWER SPECIFICATIONS

| | | |
|---|---|---|
| Max/min nominal calorific flow rate (Hi) | kW | 22,0 / 2,5 |
| Max/min nominal calorific flow rate (Hs) | kW | 24,4 / 2,8 |
| Domestic hot water max/min nominal calorific flow rate (Hi) | kW | 26,0/2,5 |
| Domestic hot water max/min nominal calorific flow rate (Hs) | kW | 28,9/2,8 |
| Max/min power output (80°C-60°C) | kW | 21,5/2,4 |
| Max/min power output (50°C-30°C) | kW | 23,4/2,6 |
| Domestic hot water max/min power output | kW | 25,4/2,4 |
| Combustion efficiency (of flue gas) | % | 98,0 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,8/88 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 106,2/95,7 |
| Efficiency at 30% at 30°C Hi/Hs | % | 109,1/98,3 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,8/88,0 |
| Efficiency rating (dir. 92/42/EEC) | stars | ★★★★ |
| Sedbuk class | class | A |
| Loss when stopped (ΔT = 50°C) | % | 0,2 |
| Loss of burner gas when operating | % | 1,9 |

### EMISSIONS

| | | |
|---|---|---|
| Available air pressure | Pa | 100 |
| NoX class | class | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 62 |
| CO2 content (G20) (80°C-60°C) | % | 9,3 |
| CO content (0%O2) (80°C-60°C) | ppm | 143 |
| O2 content (G20) (80°C-60°C) | % | 4 |
| Maximum flue gas flow (G20) (80°C-60°C) | Kg/h | 41,6 |
| Excess air (80°C-60°C) | % | 23 |

### HEATING CIRCUIT

| | | |
|---|---|---|
| Expansion chamber inflation pressure | bar | 1 |
| Maximum heating pressure | bar | 3 |
| Expansion chamber capacity | l | 8 |
| Min/max heating temperature (high temperature range) | °C | 82 / 35 |
| Min/max heating temperature (low temperature range) | °C | 45 / 20 |

### DOMESTIC HOT WATER CIRCUIT

| | | |
|---|---|---|
| Domestic hot water max/min temperature | °C | 60 / 36 |
| Specific flow rate of domestic hot water (10 min - ΔT=30°C) | l/min | 12,2 |
| Quantity of hot water ΔT=25°C | l/min | 14,6 |
| Quantity of hot water ΔT=35°C | l/min | 10,4 |
| Hot water comfort rating (EN13203) | stars | ★★★ |
| Hot water minimum flow rate | l/min | < 2 |
| Domestic hot water max/min pressure | bar | 7 / 0,3 |

### ELECTRICAL

| | | |
|---|---|---|
| Power supply frequency/voltage | V/Hz | 230/50 |
| Total electrical power absorbed | W | 78 |
| Minimum ambient temperature for use | °C | -15 |
| Protection level for the electrical appliance | IP | X5D |
| Weight | kg | 35 |

### CODE

| | |
|---|---|
| ErP | 3300713 |
| Energy class | A |
| Tapping profile | XL |

*For complete list of accessories see page 79*

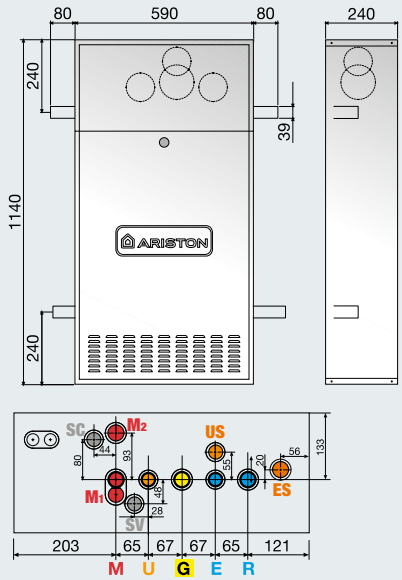
# GENUS PREMIUM EVO IN

## Wall-built in condensing boiler with AUTO function and 1:10 modulation ratio, for external use

/ **35% energy saving** on your gas bill through condensing technology

/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption
/ **"Comfort Function"**, instantaneous hot water, for 30',after first withdrawal, reducing waiting times
/ **The Sensys** system interface allows **an easy navigation and a full management** of all the parameters
/ **BusBridge Net** communication protocol
/ Adaptation of boiler functioning **according to the external temperature**

/ **Very accurate power adjustment** thanks to the **1:10** modulation ratio
/ The semi-automatic filling system **detects the water lack and reintegrates** the water after end user intervention
/ Suitable for **heating large areas**
/ **Very accurate air flow** in order to allow a good combustion
/ Protection from water impurities accumulation
/ Anti-freezing systems preventing freezing and scale accumulation
/ Easy check of combustion quality with an external analysis
/ Electro-zinc.plated box, **corrosion proof**, protects the boiler from weather conditions

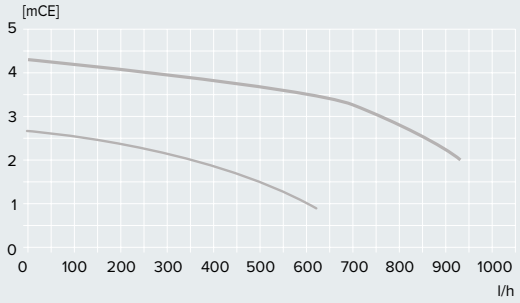



**LEGEND**

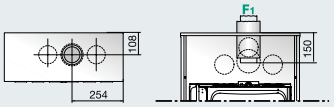
M central heating flow line Ø 3/4" gas
U domestic hot water outlet Ø 1/2" gas
G gas inlet Ø 3/4" gas
E domestic hot water inlet Ø 1/2" gas
R central heating return Ø 3/4" gas
ES hot sanitary water inlet for solar integration Ø 1/2" gas (with mixing valve kit 3318408, 3318484)
US cold sanitary water inlet for solar integration Ø 1/2" gas (with mixing valve kit 3318408, 3318484)
SC condensation draining
SV hydraulic security valve draining

ENERGY EFFICIENT | MODULATION RATIO | FULL MODULATING PUMP | SYSTEM MANAGEMENT | COMPACT SIZE | MADE IN ITALY | AUTO FUNCTION | OUTDOOR INSTALLATION | ENERGY SAVING

**Graph of boiler's residual head**

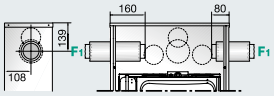



**Version** - vertical coaxial exhaust



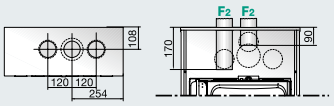

Ø60/100: up to 12 m - Ø80/125: up to 42 m

**Version** - orizontal coaxial exhaust



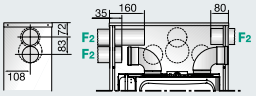

Ø60/100: up to 12m

**Version** - vertical twin pipe exhaus




Ø80/80: up to 84 m

**Version** - orizontal twin pipe exhaust




Ø80/80: up to 72 m
F: Flue (Ø mm)
F1: 60/100- 80/125 (FF) (only vertical) - F2: 80/80 (FF)

## TECHNICAL DATA 25

### POWER SPECIFICATIONS

| | | |
|---|---|---|
| Max/min nominal calorific flow rate (Hi) | kW | 22,0 / 2,5 |
| Max/min nominal calorific flow rate (Hs) | kW | 24,4 / 2,8 |
| Domestic hot water max/min nominal calorific flow rate (Hi) | kW | 26,0/2,5 |
| Domestic hot water max/min nominal calorific flow rate (Hs) | kW | 28,9/2,8 |
| Max/min power output (80°C-60°C) | kW | 21,5/2,4 |
| Max/min power output (50°C-30°C) | kW | 23,4/2,6 |
| Domestic hot water max/min power output | kW | 25,4/2,4 |
| Combustion efficiency (of flue gas) | % | 98,0 |
| Nominal calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,8/88 |
| Nominal calorific flow rate efficiency (30/50°C) Hi/Hs | % | 106,2/95,7 |
| Efficiency at 30% at 30°C Hi/Hs | % | 108,1/97,3 |
| Efficiency at 30% at 47°C Hi/Hs | % | 97,8/88,1 |
| Minimum calorific flow rate efficiency (60/80°C) Hi/Hs | % | 97,8/88,0 |
| Efficiency rating (dir. 92/42/EEC) | stars | **** |
| Sedbuk class | class | A |
| Loss of burner gas when operating | % | 1,9 |

### EMISSIONS

| | | |
|---|---|---|
| Available air pressure | Pa | 100 |
| NoX class | class | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 62 |
| CO2 content (G20) (80°C-60°C) | % | 9,3 |
| CO content (0%O2) (80°C-60°C) | ppm | 143 |
| O2 content (G20) (80°C-60°C) | % | 4 |
| Maximum flue gas flow (G20) (80°C-60°C) | Kg/h | 41,6 |
| Excess air (80°C-60°C) | % | 23 |

### HEATING CIRCUIT

| | | |
|---|---|---|
| Expansion chamber inflation pressure | bar | 1 |
| Maximum heating pressure | bar | 3 |
| Expansion chamber capacity | l | 8 |
| Min/max heating temperature (high temperature range) | °C | 82 / 35 |
| Min/max heating temperature (low temperature range) | °C | 45 / 20 |

### DOMESTIC HOT WATER CIRCUIT

| | | |
|---|---|---|
| Domestic hot water max/min temperature | °C | 60 / 36 |
| Specific flow rate of domestic hot water (10 min - ΔT=30°C) | l/min | 12,2 |
| Quantity of hot water ΔT=25°C | l/min | 14,6 |
| Quantity of hot water ΔT=35°C | l/min | 10,4 |
| Hot water comfort rating (EN13203) | stars | *** |
| Hot water minimum flow rate | l/min | < 2 |
| Domestic hot water max/min pressure | bar | 7 / 0,3 |

### ELECTRICAL

| | | |
|---|---|---|
| Power supply frequency/voltage | V/Hz | 230/50 |
| Total electrical power absorbed | W | 78 |
| Minimum ambient temperature for use | °C | -15 |
| Protection level for the electrical appliance | IP | X5D |
| Weight | kg | 35 |

### CODE

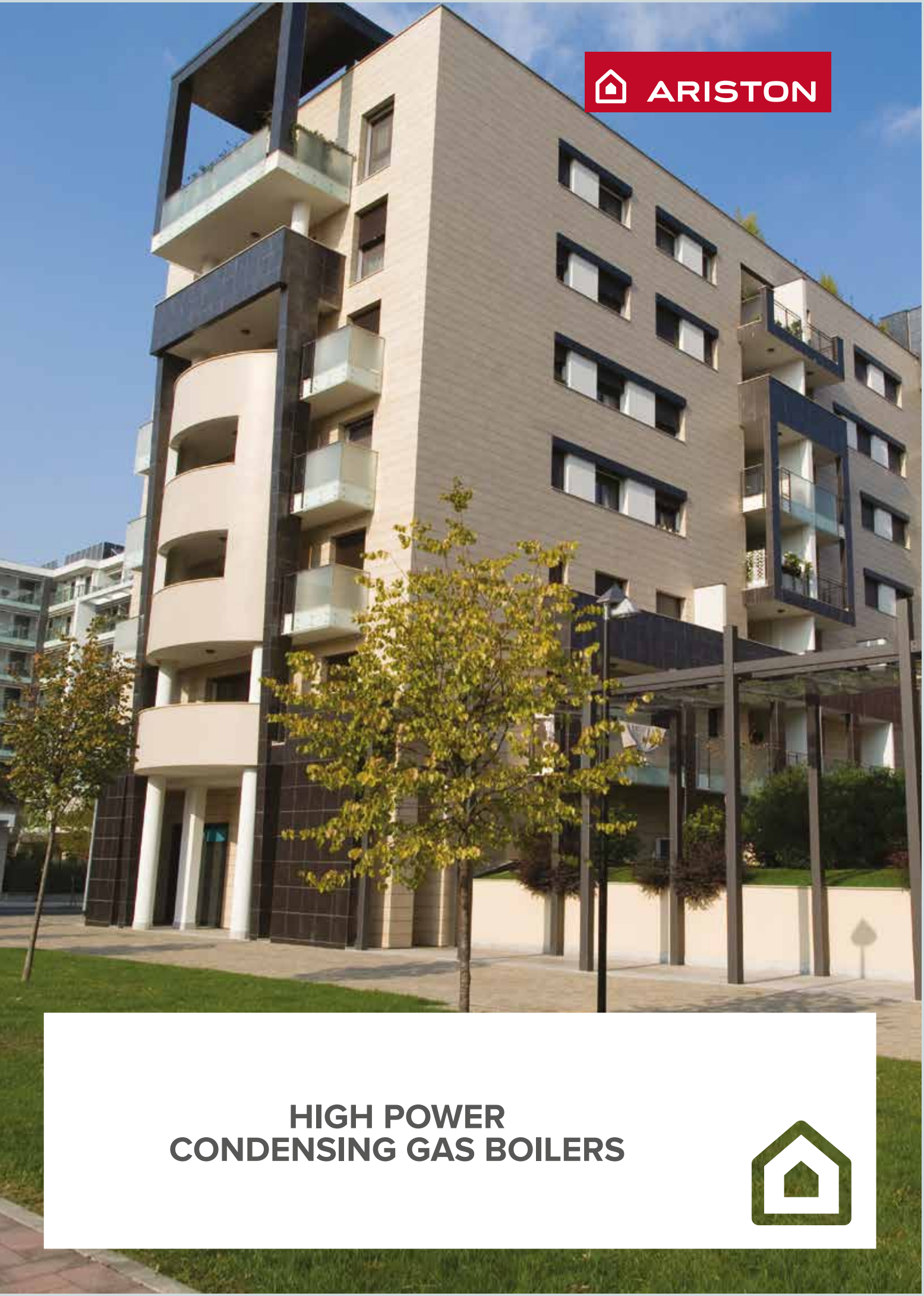
| | |
|---|---|
| ErP | 3300736 |
| Energy class | A |
| Tapping profile | XL |

*For complete list of accessories see page 79*

/ OUR PRIORITIES: MAXIMUM COMFORT AND MINIMUM ENERGY WASTES

/ THE SUN AND THE AIR ARE PRECIOUS ENERGY SOURCES.
FOR THESE REASONS THEY ARE SO IMPORTANT FOR US.

/ WE HAVE THE RIGHT SOLUTION FOR THE MAXIMUM ENERGY EFFICIENCY




# HIGH POWER
# CONDENSING GAS BOILERS

# GENUS PREMIUM EVO HP, OUTSTANDING VALUE FOR MONEY

**/ GENUS PREMIUM EVO HP**
45-65

**/ GENUS PREMIUM EVO HP**
85-100-115-150

Ariston high power condensing boilers are designed for use in residential complexes, public buildings, commercial activities and industrial facilities.

Depending on the application, they can be installed individually or in cascade and integrated with hot water cylinders, multi-temperature zone control and solar heating systems.

There is a wide range of accessories for even more high performance solutions.

**UP TO 6 IN-LINE BOILERS IN CASCADE 8 BOILERS IN FRONT-TO-BACK CASCADE**

# FOR ALL APPLICATIONS UP TO 1200 kW

## EXAMPLE INSTALLATION: RESIDENTIAL BUILDING

Location: **Rome**
Energy class: **G**
Type: **12 apartment condominium**
Surface area: **85 m² per apartment**
Fuel: **methane**
System type: **radiators**

**28%**
**TOTAL ANNUAL ENERGY SAVINGS**

2x Genus Premium Evo HP 65 kW | 1x MAXIS CKZ 1500 | 2x Fresh water station 50 l | 12x Kairos XP 2.5 - 1 V

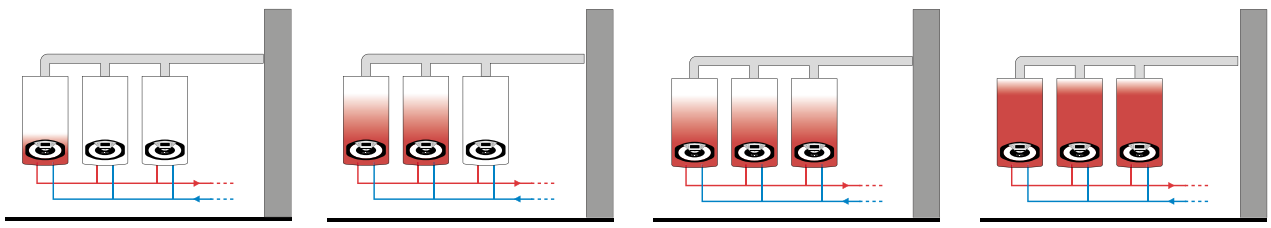
**25%**
**ANNUAL ROOM HEATING ENERGY SAVINGS**

**50%**
**DOMESTIC HOT WATER PRODUCTION ENERGY SAVINGS**

*Compared to a single conventional 130 kW boiler without temperature regulation.

## BOILER CASCADE CONTROLLER: THE SAFEST AND MOST EFFICIENT SOLUTION

Example: 3 Genus Premium Evo HP 150 EU boilers in cascade



**35 kW demand:** minimum power, a single boiler is used

**200 kW demand:** reduced power, a second boiler is used

**300 kW demand:** moderate power, a third boiler is now used as well

**450 kW demand:** maximum power of the entire cascade

# GENUS PREMIUM EVO HP 45-65

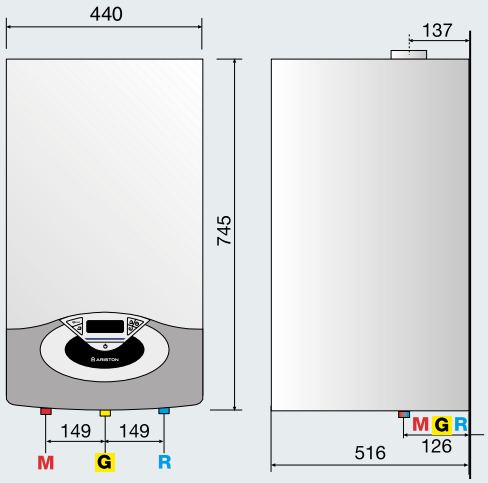
## Wall-Hung, high power, only heating condensing boiler

/ **35% energy saving** on your gas bill through condensing technology

/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption

/ **The Sensys** system interface allows **an easy navigation and a full management** of all the parameters
/ **Best enjoyable design** of its category
/ **BusBridge Net** communication protocol
/ Wide Dot Matrix Backlit **LCD display**

/ **Cascade installation**, both in line and back to back
/ The equipment allows the production of domestic hot water with the connection of an external tank
/ High reliability and very long lifecycle
/ Protection from water impurities accumulation
/ Anti-freezing systems preventing freezing and scale accumulation
/ Low water pressure sensor



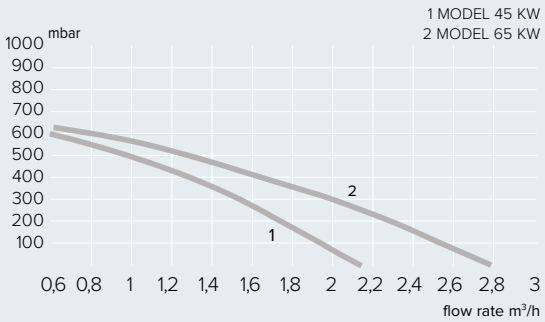

**LEGEND**

M: Central heating flow line Ø 1" gas
G: Gas connector Ø 3/4" gas
R: Central heating return Ø 1" gas
F: Exhausts (Ø mm)
F1: 80/125
F2: 80/80

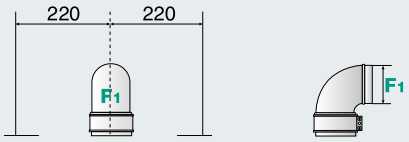
**up to 6 boilers in line installation, and up to 8 boilers in back to back installation**

ENERGY EFFICIENT | SYSTEM MANAGEMENT | MADE IN EUROPE | AUTO FUNCTION | SUPER SILENT | ENERGY SAVING | LOW EMISSIONS

**Residual head**

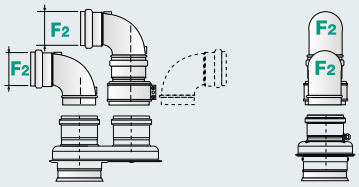



**Version** - Coaxial exhausts




Maximum pipe lenght:
Ø80/125: up to 12 m (45 kW) - 8 m (65 kW)

**Version** - Twin pipes exhausts




Maximum pipe lenght:
Ø80/80: up to 49 m (45 kW) - 30 m (65 kW)

| TECHNICAL DATA | | 45 | 65 |
|---|---|---|---|
| **POWER SPECIFICATIONS** | | | |
| Max/min nominal calorific flow rate (Hi) | kW | 41,0/12,2 | 58,0/17,4 |
| Max/min nominal calorific flow rate (Hs) | kW | 45,6/13,6 | 64,4/19,3 |
| Max/min power output (80°C-60°C) (Central Heating) | kW | 39,8/11,7 | 57,3/17,3 |
| Max/min power output (50°C-30°C) (Central Heating) | kW | 43,6/13,1 | 62,3/19,1 |
| Max/min power output (40 °C - 30 °C) | kW | 43,7/13,1 | 62,8/19,3 |
| Combustion efficiency (of flue gas) | % | 97,3 | 97,3 |
| Nominal calorific flow rate efficiency (60/80°C) max/min | % | 97,0/96,1 | 98,8/99,4 |
| Nominal calorific flow rate efficiency (30/50°C) max/min | % | 106,4/107,5 | 107,4/109,5 |
| Nominal calorific flow rate efficiency (30/40 °C) max/min | % | 106,5/107,7 | 108,2/110,0 |
| Efficiency at 30% at 30°C | % | 107,4 | 109,8 |
| Efficiency at 30% at 47°C | % | 104,8 | 105,3 |
| Efficiency rating (dir. 92/42/EEC) | stars | ★★★★ | ★★★★ |
| Sedbuk Rating | band | | |
| Loss when stopped (ΔT = 50°C) | % | 0,24 | 0,24 |
| Loss of burner gas when operating | % | 2,8 | 2,8 |
| **EMISSIONS** | | | |
| Available air pressure | Pa | 130 | 150 |
| NOx class (Less than 70 mg/kWh) | class | 5 | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 67/63 | 68/61 |
| CO2 content (G20) max/min | % | 9,0/8,4 | 9,0/8,4 |
| CO2 content (G31) max/min | % | 9,8/9,2 | 9,8/9,2 |
| CO content (0%O2) (80°C-60°C) | ppm | 88 | 109 |
| O2 content (G20) | % | 4,8 | 4,8 |
| Maximum flue gas flow (G20) (80°C-60°C) | m³/h | 53 | 74 |
| Excess air max load | % | 27 | 27 |
| **HEATING CIRCUIT** | | | |
| Residual head DT = 20°C | mCa | 2,2 | 1,1 |
| Maximum/Minimum heating pressure | bar | 4/0,7 | 4/0,7 |
| Min/max heating temperature (high temperature range) | °C | 35/82 | 35/82 |
| Min/max heating temperature (low temperature range) | °C | 20/45 | 20/45 |
| **DOMESTIC HOT WATER CIRCUIT** | | | |
| Domestic hot water min/max temperature | °C | 40/60 | 40/60 |
| **ELECTRICAL** | | | |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 |
| Total electrical power absorbed | W | 148 | 198 |
| Minimum ambient temperature for use | °C | +5 | +5 |
| Protection level for the electrical appliance | IP | IPX4D | IPX4D |
| **CONDENSATE** | | | |
| "Max condensate production (40°C- 30°C, max load - 20°C ambient)" | l/h | 8,8 | 13,4 |
| Condensate pH | | 3,2 | 3,2 |
| Weight | kg | 45 | 50 |
| Dimensions (DxWxH) | mm | 440/910/510 | 440/910/510 |
| **CODE** | | | |
| | | 3581564 | 3581565 |
| Energy class | | A | A |

*For complete list of accessories see page 79*

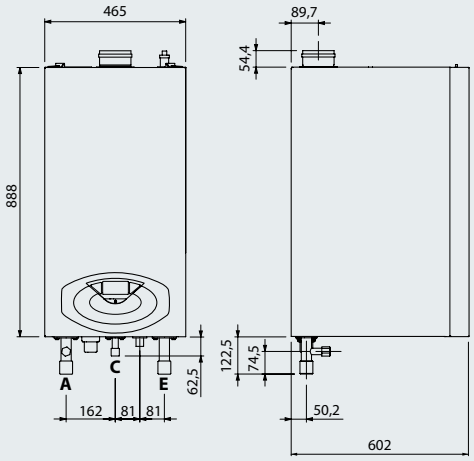
# GENUS PREMIUM EVO HP 85-100-115-150

## Wall-Hung, high power, only heating condensing boiler

/ **35% energy saving** on your gas bill through condensing technology
/ **More energy saving** is guaranteed thanks to the two speed pump (only for 85-100 kW) or full modulating pump (for 85-100-115-150 kW) available as optional accessories

/ **"AUTO function"**, constant temperature for the maximum thermic comfort, reduced consumption
/ **The Sensys** system interface allows **easy navigation and full management** of all the parameters
/ **Best enjoyable design** of its category
/ **BusBridge Net** communication protocol
/ The Wide Dot Matrix Backlit **LCD display**

/ **Cascade installation**, both in line and back to back
/ **Production of domestic hot water** with the connection of an external tank
/ High reliability and very long lifecycle
/ Boiler protection from water impurities accumulation
/ Anti-freezing systems preventing freezing and scale accumulation
/ Low water pressure sensor

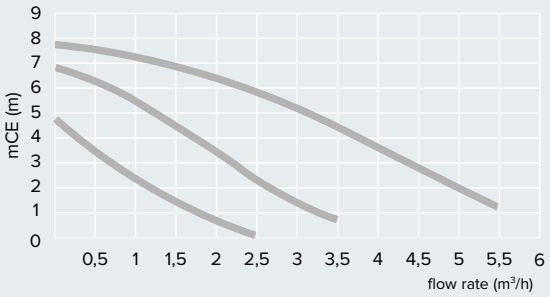



**LEGEND**

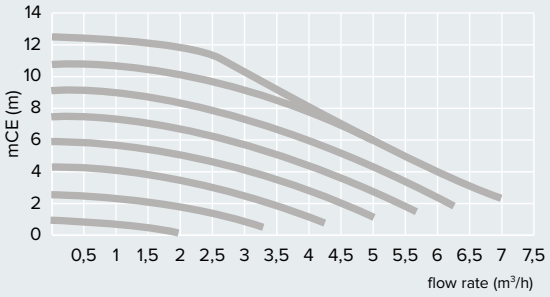
A: Central heating flow line
C: Gas connector
E: Central heating return
F: Exhausts (Ø mm)
F1: 100
F2: 110/150

ENERGY EFFICIENT | SYSTEM MANAGEMENT | MADE IN EUROPE | AUTO FUNCTION | SUPER SILENT | ENERGY SAVING | LOW EMISSIONS

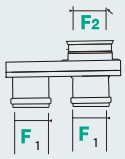
**Residual Head**
**(modulating circulator as accessory)**




**Residual Head**
**(full modulating circulator as accessory)**

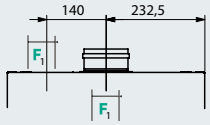



**Version** - Coaxial exhausts




Maximum pipe lenght:
Ø110/150 up to 5 m (only for 85-100)

**Version** - Twin pipes exhausts




Maximum pipe lenght:
Ø100/110: up to 49 m (85-100 kW)
up to 44 m (115 kW) - up to 28 m (150 kW)

| TECHNICAL DATA | | 80 | 100 | 115 | 150 |
|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | |
| Max/min nominal calorific flow rate (Hi) | kW | 80,0/20,0 | 88,3/22,1 | 109,0/27,3 | 140,0/35,0 |
| Max/min nominal calorific flow rate (Hs) | kW | 88,9/22,2 | 98,1/24,6 | 121,1/30,3 | 155,6/38,9 |
| Max/min power output (80°C-60°C) (Central Heating) | kW | 78,0/19,7 | 86,1/21,7 | 106,3/26,9 | 136,2/34,4 |
| Max/min power output (50°C-30°C) (Central Heating) | kW | 84,5/21,6 | 94,0/23,9 | 115,8/29,6 | 148,5/38,0 |
| Max/min power output (40 °C - 30 °C) | kW | 84,9/21,7 | 94,5/23,9 | 117,1/29,6 | 150,1/38,0 |
| Combustion efficiency (of flue gas) | % | 97,3 | 97,3 | 96,8 | 96,9 |
| Nominal calorific flow rate efficiency (60/80°C) Max/min | % | 97,5/98,4 | 97,5/98,4 | 97,5/98,4 | 97,3/98,4 |
| Nominal calorific flow rate efficiency (30/50°C) Max/min | % | 105,6/108,1 | 106,5/108,1 | 106,2/108,4 | 106,1/108,3 |
| Nominal calorific flow rate efficiency (30/40 °C) Max/min | % | 106,1/108,3 | 107,0/108,3 | 107,7/108,6 | 107,2/108,7 |
| Efficiency at 30% at 30°C | % | 108,1 | 108,1 | 108,3 | 108,5 |
| Efficiency at 30% at 47°C | % | 104,9 | 104,9 | 102,5 | 103,0 |
| Efficiency rating (dir. 92/42/EEC) | stars | ★★★★ | ★★★★ | ★★★★ | ★★★★ |
| Sedbuk Rating | band | | | | |
| Loss when stopped (ΔT = 50°C) | % | 0,25 | 0,25 | <0,15 | <0,15 |
| Loss of burner gas when operating | % | 2,8 | 2,8 | 3,2 | 3,1 |
| **EMISSIONS** | | | | | |
| Available air pressure | Pa | 140 | 140 | 180 | 200 |
| NOx class (Less than 70 mg/kWh) | class | 5 | 5 | 5 | 5 |
| Flue gas temperature (G20) (80°C-60°C) | °C | 61/63 | 68/63 | 76/65 | 74/63 |
| CO2 content (G20) ( max/min | % | 9,0/8,4 | 9,0/8,4 | 9,0/8,4 | 9,0/8,4 |
| CO2 content (G31) max/min | % | 9,8/9,2 | 9,8/9,2 | 9,8/9,2 | 9,8/9,2 |
| CO content (0%O2) (80°C-60°C) | ppm | 95 | 90 | 117 | 131 |
| O2 content (G20) | % | 4,8 | 4,8 | 4,8 | 4,8 |
| Maximum flue gas flow (G20) (80°C-60°C) | m³/h | 102 | 113 | 143 | 182 |
| Excess air max load | % | 27 | 27 | 27 | 27 |
| **HEATING CIRCUIT** | | | | | |
| Maximum/Minimum heating pressure | bar | 6/0,7 | 6/0,7 | 6/0,7 | 6/0,7 |
| Min/max heating temperature (high temperature range) | °C | 35/82 | 35/82 | 35/85 | 35/85 |
| Min/max heating temperature (low temperature range) | °C | 20/45 | 20/45 | 20/45 | 20/45 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | |
| Domestic hot water min/max temperature | °C | 40/60 | 40/60 | 40/60 | 40/60 |
| **ELECTRICAL** | | | | | |
| Power supply voltage/frequency | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 |
| Total electrical power absorbed | W | 101 | 111 | 215 | 246 |
| Minimum ambient temperature for use | °C | +5 | +5 | +5 | +5 |
| Protection level for the electrical appliance | IP | IPX4D | IPX4D | IP20 | IP20 |
| **CONDENSATE** | | | | | |
| "Max condensate production | | | | | |
| (40°C- 30°C, max load - 20°C ambient)" | l/h | 16,4 | 19,1 | 24,6 | 31,1 |
| Condensate pH | | 3,2 | 3,2 | 3,2 | 3,2 |
| Weight | kg | 80 | 83 | 83 | 90 |
| Dimension (W x H x D) | mm | 465/888/602 | 465/888/602 | 465/888/602 | 465/888/602 |

| CODE | | | | |
|---|---|---|---|---|
| 3581564 | 3581567 | 3581568 | 3581569 |

*For complete list of accessories see page 79*

## CHOICE TABLE OF ACCESSORIES FOR WALL-MOUNTED LINE INSTALLATION

| ACCESSORY KITS - CASCADE INSTALLATION | Cascade output power | | DN65: 90-600 kW | | DN100: 601-1200 kW | |
|---|---|---|---|---|---|---|
| | **n° of boilers** | | **45-65** | **85-150** | **45-65** | **85-150** |
| **LINE - WALL MOUNTED**<br>Contents:<br>- collector supports;<br>- collectors water and gas & blind flanges;<br>- boiler connection kits with shut-off valves, non-return valve and safety valve 3 bar;<br>- cascade manager RVS63;<br>- communication gateway for boilers<br>- header sensor. | 2  | Code | **3318835** | **3318840** | - | - |
| | 3  | Code | **3318836** | **3318841** | - | - |
| | 4  | Code | **3318837** | **3318842** | - | **3318843** |
| | 5  | Code | **3318838** | - | - | **3318844** |
| | 6  | Code | **3318839** | - | - | **3318845** |
| **Insulation for collector** | collector 2 boilers | Code | **3590458** | | **3590470** | |
| | collector 3 boilers | Code | **3590459** | | **3590471** | |
| **Insulation for connection kit (one for each boiler)** | | Code | **3590460** | | | |
| **Low loss header (one for the whole system)** | | Code | **3590444** | | **3590445** | |
| **Insulation for low loss header (one for the whole system)** | | Code | **3590456** | | **3590457** | |
| **Plated heat exchanger kit incl. insulation (one for the whole system, to be used in alternative to the low loss header)** | ΔT = 15-20K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-50M | - | |
| | | Code | **3590357** | **3590358** | - | |
| | ΔT = 10K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-64M | - | |
| | | Code | **3590357** | **3590359** | - | |
| **Expansione vessel (to be connected to the plate heat exchanger)** | | kW | 0-250 kW | 251-462 kW | - | |
| | | L | 4 | 4 | - | |
| | | Code | **3590198** | **3590199** | - | |
| **Gas filter incl. connection material (one for the whole system)** | | Code | **3590298** | | **3590300** | |
| **Extension pipe for gas filter (one for the whole system)** | | Code | **3590299** | | **3590301** | |
| **Outdoor temperature sensor**<br>sensor QAC34 (excl. cable) | | Code | **171237** | | | |
| **Hot water temperature sensor**<br>sensor QAZ36 incl. 6m cable | | Code | **12081759** | | | |
| **Heating zone temperature sensor**<br>sensor QAD36 incl. 4m cable | | Code | **11002600** | | | |
| **Room controller (sensor + controls)**<br>Room unit QAA75 | | Code | **12048253** | | | |

## PUMP KITS

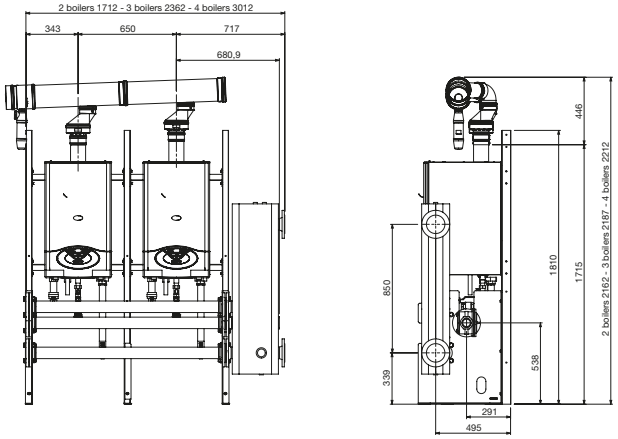
| Pump kits (1 for each boiler required) | | 45-65kW | 85-100kW | 115-150kW |
|---|---|---|---|---|
| **Boiler pump - 2 speed** | Type | RS 25/7-2 130 | RSG 25/8-2-C | - |
| including connection cable | Code | *1 | **3590441** | |
| **Boiler pump - high efficiency modulating** | Type | - | UPMXL GEO 25-125 | |
| including connection cable | Code | | **3590442** | |

*1 included in boiler

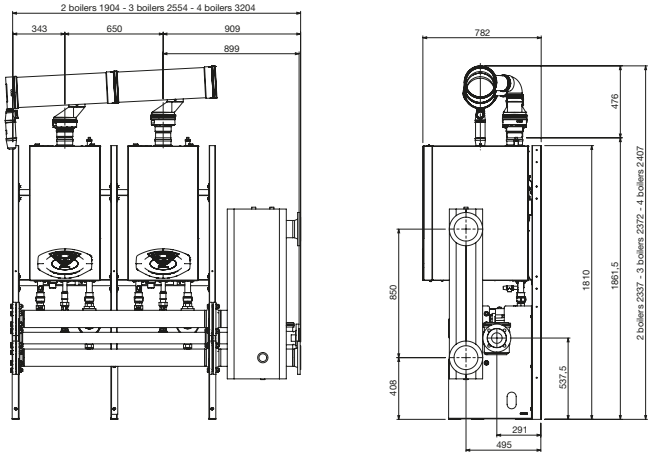
## Installation scheme for line cascade boilers

The cascade configuration allows the installation from 2 up to 6 boilers.
Regarding the sizes, please refer to the dimensions shown in the drawings , since the installation is modular.

### 2 GENUS PREMIUM EVO HP DN65




### 2 GENUS PREMIUM EVO HP DN100




## CHOICE TABLE OF ACCESSORIES FOR LINE INSTALLATION

| ACCESSORY KITS - CASCADE INSTALLATION | Cascade output power | | DN65: 90-600 kW | | DN100: 601-1200 kW | |
|---|---|---|---|---|---|---|
| | n° of boilers | GHP EVO | 45-65 | 85-150 | 45-65 | 85-150 |
| **LINE - FRAME**<br>Contents:<br>- collector supports & boiler frame;<br>- collectors water and gas & blind flanges;<br>- boiler connection kits with shut-off valves, non-return valve and safety valve 3 bar;<br>- cascade manager RVS63;<br>- communication gateway for boilers<br>- header sensor. | 2 | Code | **3318809** | **3318814** | - | - |
| | 3 | Code | **3318810** | **3318815** | - | - |
| | 4 | Code | **3318811** | **3318816** | - | **3318817** |
| | 5 | Code | **3318812** | - | - | **3318818** |
| | 6 | Code | **3318813** | - | - | **3318819** |
| **Insulation for collector** | collector 2 boilers | Code | **3590458** | | **3590470** | |
| | collector 3 boilers | Code | **3590459** | | **3590471** | |
| **Insulation for connection kit (one for each boiler)** | | Code | **3590460** | | | |
| **Low loss header (one for the whole system)** | | Code | **3590444** | | **3590445** | |
| **Insulation for low loss header (one for the whole system)** | | Code | **3590456** | | **3590457** | |
| **Plated heat exchanger kit incl. insulation (one for the whole system, to be used in alternative to the low loss header)** | ΔT = 15-20K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-50M | - | |
| | | Code | **3590357** | **3590358** | - | |
| | ΔT = 10K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-64M | - | |
| | | Code | **3590357** | **3590359** | - | |
| **Expansione vessel (to be connected to the plate heat exchanger)** | | kW | 0-250 kW | 251-462 kW | - | |
| | | L | 4 | 8 | - | |
| | | Code | **3590198** | **3590199** | - | |
| **Gas filter incl. connection material (one for the whole system)** | | Code | **3590298** | | **3590300** | |
| **Extension pipe for gas filter (one for the whole system)** | | Code | **3590299** | | **3590301** | |
| **Outdoor temperature sensor**<br>sensor QAC34 (excl. cable) | | Code | **171237** | | | |
| **Hot water temperature sensor**<br>sensor QAZ36 incl. 6m cable | | Code | **12081759** | | | |
| **Heating zone temperature sensor**<br>sensor QAD36 incl. 4m cable | | Code | **11002600** | | | |
| **Room controller (sensor + controls)**<br>Room unit QAA75 | | Code | **12048253** | | | |

## PUMP KITS

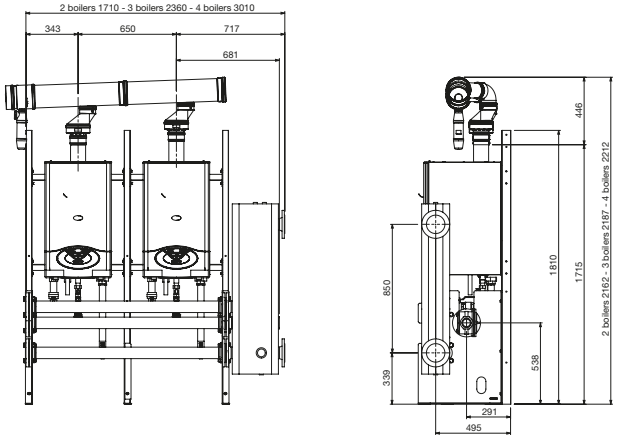
| Pump kits (1 for each boiler required!) | | 45-65kW | 85-100kW | 115-150kW |
|---|---|---|---|---|
| **Boiler pump - 2 speed** | Type | RS 25/7-2 130 | RSG 25/8-2-C | - |
| including connection cable | Code | *1 | **3590441** | |
| **Boiler pump - high efficiency modulating** | Type | - | UPMXL GEO 25-125 | |
| including connection cable | Code | | **3590442** | |

*1 included in boiler

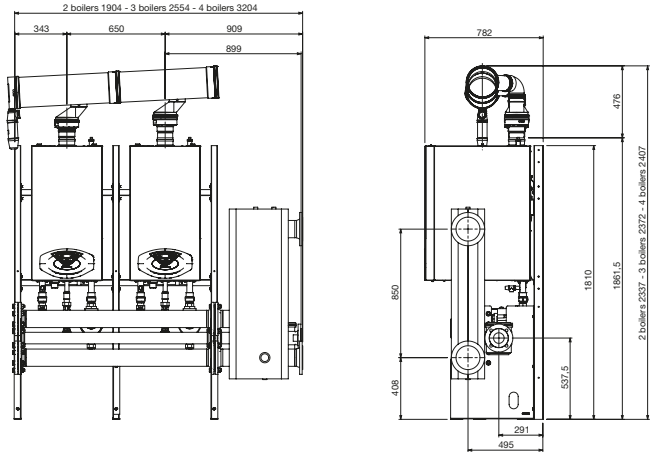
## Installation scheme for line cascade boilers

The cascade configuration allows the installation from 2 up to 6 boilers.
Regarding the sizes, please refer to the dimensions shown in the drawings , since the installation is modular.

### 2 GENUS PREMIUM EVO HP DN65




### 2 GENUS PREMIUM EVO HP DN100




# CHOICE TABLE OF ACCESSORIES FOR FRAME BACK TO BACK INSTALLATION

| ACCESSORY KITS - CASCADE INSTALLATION | Cascade output power | | DN65: 90-600 kW | | DN100: 601-1200 kW | |
|---|---|---|---|---|---|---|
| | n° of boilers | GHP EVO | 45-65 | 85-150 | 45-65 | 85-150 |
| **BACK TO BACK - FRAME**<br>Contents:<br>- collector supports & boiler frame;<br>- collectors water and gas & blind flanges;<br>- boiler connection kits with shut-off valves, non-return valve and safety valve 3 bar;<br>- cascade manager RVS63;<br>- communication gateway for boilers<br>- header sensor. | 3  | Code | **3318820** | **3318826** | - | - |
| | 4  | Code | **3318821** | **3318827** | - | **3318829** |
| | 5  | Code | **3318822** | **3318828** | - | **3318830** |
| | 6  | Code | **3318823** | - | - | **3318831** |
| | 7  | Code | **3318824** | - | - | **3318832** |
| | 8  | Code | **3318825** | - | - | **3318833** |
| **Insulation for collector** | collector 2 boilers | Code | **3590458** | | **3590470** | |
| | collector 3 boilers | Code | **3590459** | | **3590471** | |
| **Insulation for connection kit (one for each boiler)** | | Code | **3590460** | | | |
| **Low loss header (one for the whole system)** | | Code | **3590444** | | **3590445** | |
| **Insulation for low loss header (one for the whole system)** | | Code | **3590456** | | **3590457** | |
| **Plated heat exchanger kit incl. insulation (one for the whole system, to be used in alternative to the low loss header)** | ΔT = 15-20K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-50M | - | |
| | | Code | **3590357** | **3590358** | - | |
| | ΔT = 10K | kW | 82-250 | 251-462 | - | |
| | | Type | CB200-30M | CB200-64M | - | |
| | | Code | **3590357** | **3590359** | - | |
| **Expansione vessel (to be connected to the plate heat exchanger)** | | kW | 0-250 kW | 251-462 kW | - | |
| | | L | 4 | 8 | - | |
| | | Code | **3590198** | **3590199** | - | |
| **Gas filter incl. connection material (one for the whole system)** | | Code | **3590298** | | **3590300** | |
| **Extension pipe for gas filter (one for the whole system)** | | Code | **3590299** | | **3590301** | |
| **Outdoor temperature sensor**<br>sensor QAC34 (excl. cable) | | Code | **171237** | | | |
| **Hot water temperature sensor**<br>sensor QAZ36 incl. 6m cable | | Code | **12081759** | | | |
| **Heating zone temperature sensor**<br>sensor QAD36 incl. 4m cable | | Code | **11002600** | | | |
| **Room controller (sensor + controls)**<br>Room unit QAA75 | | Code | **12048253** | | | |

# PUMP KITS

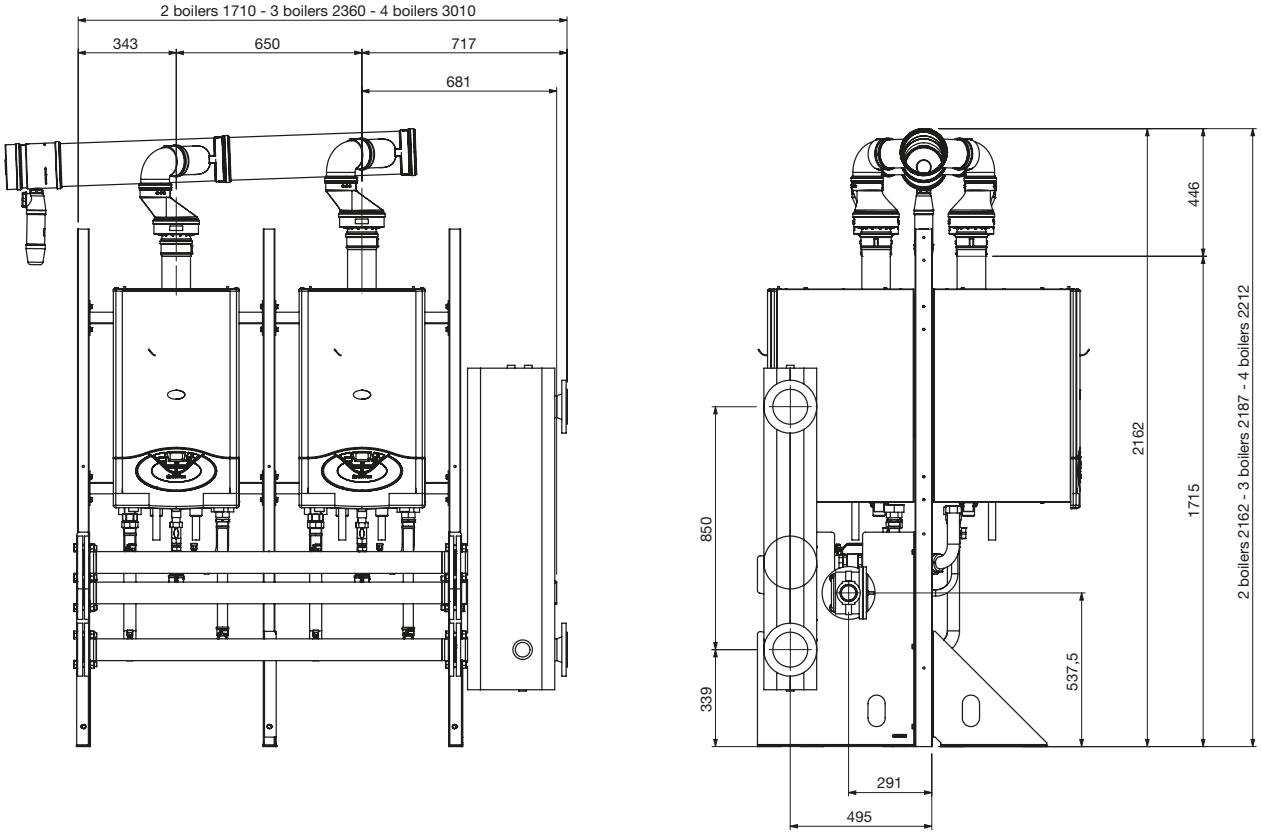
| Pump kits | | 45-65kW | 85-100kW | 115-150kW |
|---|---|---|---|---|
| **Boiler pump - 2 speed** | Type | RS 25/7-2 130 | RSG 25/8-2-C | - |
| including connection cable | Code | *1 | **3590441** | |
| **Boiler pump - high efficiency modulating** | Type | - | UPMXL GEO 25-125 | |
| including connection cable | Code | | **3590442** | |

*1 included in boiler

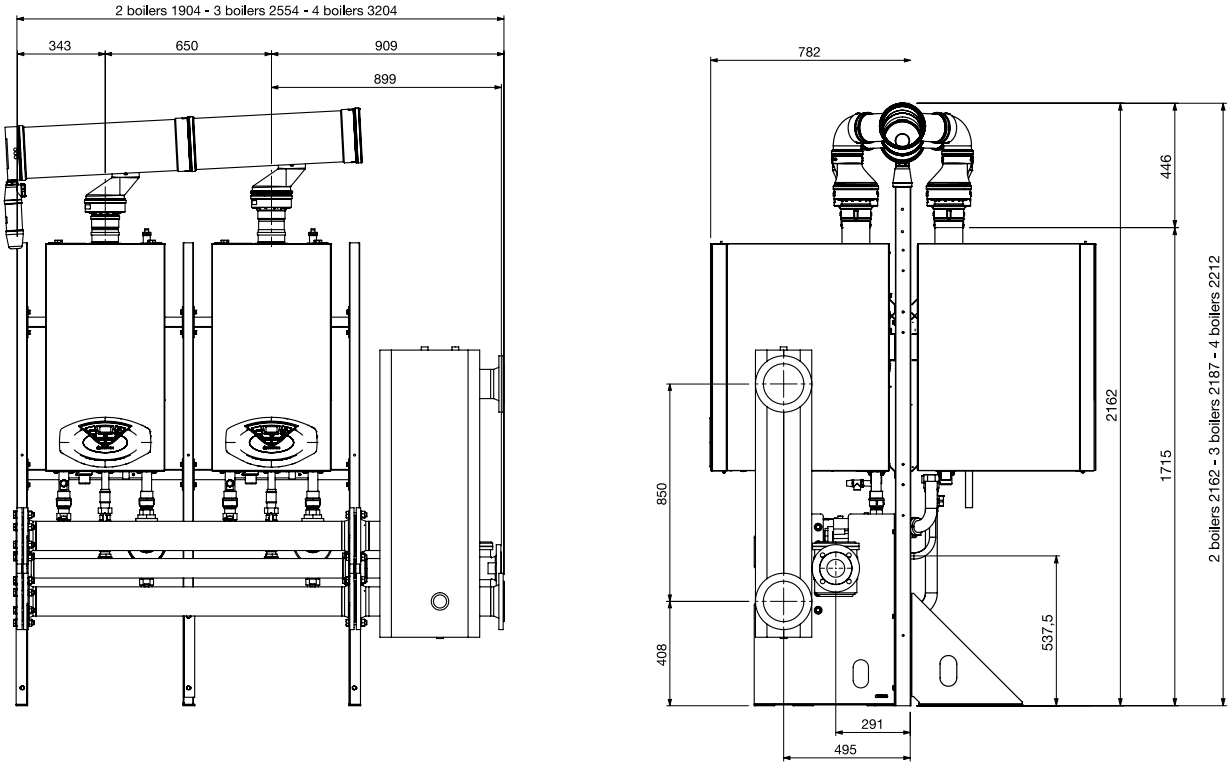
## Installation scheme for back to back cascade boilers

The cascade configuration allows the installation from 3 up to 8 boilers.
Regarding the sizes, please refer to the dimensions shown in the drawings , since the installation is modular

### 2 GENUS PREMIUM EVO HP DN65



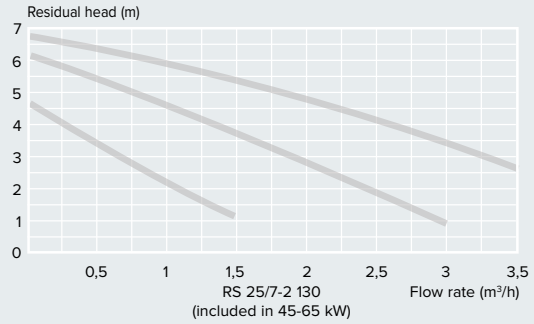

### 2 GENUS PREMIUM EVO HP DN100

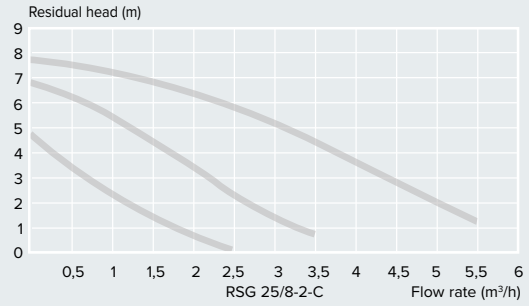


## Two - Speed Pump Features

| | | 45 FF | 65 FF | 85 FF | 100 FF | 115 FF | 150 FF |
|---|---|---|---|---|---|---|---|
| **HYDRAULIC DATA** | | | | | | | |
| Flow Rate ΔT=20K | $m^3/h$ | 1,7 | 2,5 | 3,4 | 3,7 | 4,6 | 5,9 |
| Pressure drop at the nominal flow rate | kPa | 34 | 40 | 23 | 23 | 26 | 37 |
| **TWO - SPEED PUMP DATA** | | | | | | | |
| Pump model and type of control | - | RS 25/7-2 130 | RS 25/7-2 130 | RSG 25/8-2-C | RSG 25/8-2-C | - | - |
| | Code | Included | Included | 3590441 | 3590441 | - | - |
| Voltage | V | 230 | 230 | 230 | 230 | - | - |
| Maximum consumption | W | 93 | 111 | 151 | 151 | - | - |
| Minimum consumption | W | 62 | 62 | 81 | 81 | - | - |
| Residual head at the nomial flow rate | kPa | 56 | 51 | 46 | 41 | - | - |

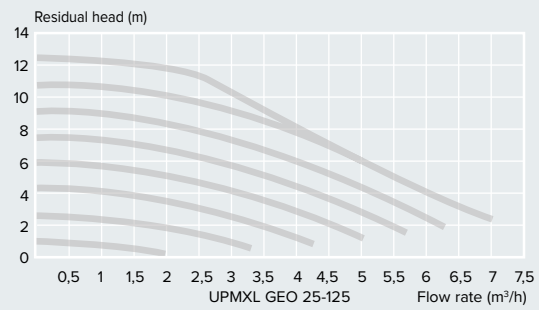
| | Code |
|---|---|
| Two - Speed Pump | 3590441 |




## High-Efficiency Full Modulating Pump Features

| | | 45 FF | 65 FF | 85 FF | 100 FF | 115 FF | 150 FF |
|---|---|---|---|---|---|---|---|
| **HYDRAULIC DATA** | | | | | | | |
| Flow Rate ΔT=20K | $m^3/h$ | 1,7 | 2,5 | 3,4 | 3,7 | 4,6 | 5,9 |
| Pressure drop at the nominal flow rate | kPa | 34 | 40 | 23 | 23 | 26 | 37 |
| **HIGH-EFFICIENCY FULL MODULATING PUMP DATA** | | | | | | | |
| Pump model and type of control | - | - | - | UPMXL GEO 25-125 | UPMXL GEO 25-125 | UPMXL GEO 25-125 | UPMXL GEO 25-125 |
| | Code | - | - | 3590442 | 3590442 | 3590442 | 3590442 |
| Voltage | V | - | - | 230 | 230 | 230 | 230 |
| Maximum consumption | W | - | - | 180 | 180 | 180 | 180 |
| Minimum consumption | W | - | - | 8 | 8 | 8 | 8 |
| Residual head at the nomial flow rate | kPa | - | - | 96 | 90 | 72 | 50 |




| | Code |
|---|---|
| High-Efficiency Full Modulating Pump | 3590442 |

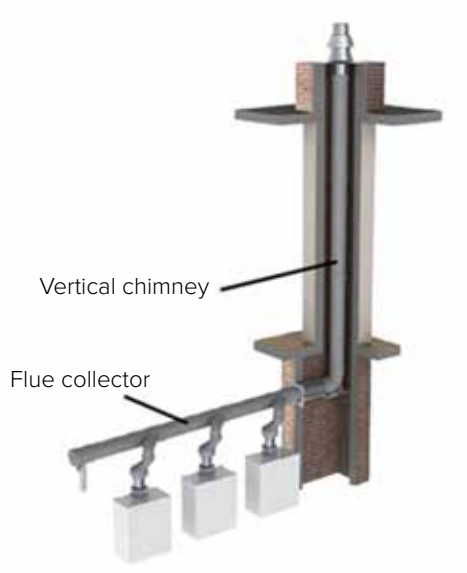
## Exhaust configuration

### CHIMNEY SELECTION (diameter for required output):

| Max. output [kW] by diameter (collector/chimney) | | | |
|---|---|---|---|
| **Diameter** | **Chimney height** | | |
| | **5m** | **15m** | **30m** |
| 150/150mm | 327 | 313 | 288 |
| 150/200mm | 450 | 412 | 370 |
| 200/200mm | 530 | 500 | 482 |
| 200/250mm | 697 | 675 | 646 |
| 200/300mm | 855 | 835 | 797 |

Calculation based on 3m horizontal flue in boiler room

The cascade flue systems are available with a diameter of 150 and 200 mm. Horizontal collector's and vertical chimney's diameters depend on the total installed power, and on vertical chimney lenght.
The table shows the maximum power, in accordance with the vertical length of the chimney.




The informations are indicative and the proper sizing of an exhaust system depends on the chimney configuration.

| Flue system composition | | DN150 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LINE | | | | | BACK 2 BACK | | | | | |
| | **# boilers** | 2 | 3 | 4 | 5 | 6 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Cascade flue kit basic LINE** | **3590461** | 2 | 3 | 4 | 5 | 6 | 1 | | 1 | | 1 | |
| **Cascade flue kit basic BACK 2 BACK** | **3590462** | - | - | - | - | - | 1 | 2 | 2 | 3 | 3 | 4 |
| **Condensate trap + syphon + cap** | **3590463** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Adapter 80 to 100mm for 45-65kW boiler** | **3590467** | 2* | 3* | 4* | 5* | 6* | 3* | 4* | 5* | 6* | 7* | 8* |

* Only in case of 45-65kW boilers

| Flue system composition | | DN200 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LINE | | | | | BACK 2 BACK | | | | | |
| | **# boilers** | 2 | 3 | 4 | 5 | 6 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Cascade flue kit basic LINE** | **3590464** | 2 | 3 | 4 | 5 | 6 | 1 | | 1 | | 1 | |
| **Cascade flue kit basic BACK 2 BACK** | **3590465** | - | - | - | - | - | 1 | 2 | 2 | 3 | 3 | 4 |
| **Condensate trap + syphon + cap** | **3590466** | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Adapter 80 to 100mm for 45-65kW boiler** | **3590467** | 2* | 3* | 4* | 5* | 6* | 3* | 4* | 5* | 6* | 7* | 8* |

* Only in case of 45-65kW boilers

/ REDUCED CONSUMPTIONS, MAXIMUM COMFORT AND SAVINGS

/ ENERGY, ENVIRONMENT AND WELLBEING: PERFECTLY HARMONIZED

/ THE QUALITY OF A BRAND SPECIALIZED IN THE THERMIC COMFORT

ARISTON

# CONVENTIONAL GAS BOILERS

# ARISTON CONVENTIONAL WALL HUNG BOILER RANGE

| | ALTEAS X | | | | GENUS X | | | |
|---|---|---|---|---|---|---|---|---|
| | 24 | 30 | 32 | 35 | 24 | 30 | 32 | 35 |
| ENERGY SAVING | **Up to 15%*** | | | | **Up to 15%*** | | | |
| POWER RANGE | Combi<br>FF 24-30-32-35 kW<br>CF 24-30 kW | | | | Combi<br>FF 24-30-32-35 kW<br>CF 24-30 kW | | | |
| EFFICIENCY | Up to 93,6% & Reduced electrical consumption | | | | Up to 93,6% & Reduced electrical consumption | | | |
| CONNECTIVITY | WI-FI embedded | | | | READY FOR ARISTON NET | | | |
| DISPLAY | Large LCD & Touch screen display | | | | Large LCD & Touch screen display | | | |
| SILENCE | Modulating pump and insulating panels | | | | Modulating pump and insulating panels | | | |
| COMFORT FUNCTION | | | | | | | | |
| DESIGN | Glass frontal panel, black color, compact structure, Italian design.<br>Dimensions (H x L x W)<br>745 x 400 x 315 mm | | | | Black and white color design, compact structure, Italian design.<br>Dimensions (H x L x W)<br>745 x 400 x 315 mm | | | |
| INTEGRATION WITH OTHER PRODUCTS | BusBridgeNetR technology ready, Solar System management | | | | BusBridgeNetR technology ready, Solar System management | | | |
| PAGE | 66 | | | | 68 | | | |

| CLAS X | | | CARES X | | |
|---|---|---|---|---|---|
| 24 | 28 | 32 | 15 | 18 | 24 |
| **Up to 13%*** | | | **Up to 13%*** | | |
| Combi<br>FF 24-28 kW<br>CF 24 kW<br><br>System<br>FF 24-28-32 kW<br>CF 15-24 kW | | | Combi<br>FF 15-18-24 kW<br>CF 15-24 kW<br><br>System<br>FF 24 kW<br>CF 24 kW | | |
| Up to 93,6% | | | Up to 93,6% | | |
| READY FOR ARISTON NET | | | READY FOR ARISTON NET | | |
| Large LCD Display | | | Large LCD Display | | |
| - | | | - | | |
| ⌂⌂ | | | ⌂⌂ | | |
| Compact structure,<br>Italian design.<br>Dimensions (H x L x W)<br>745 x 400 x 315 mm | | | Compact structure,<br>Italian design.<br>Dimensions (H x L x W)<br>745 x 400 x 315 mm | | |
| BusBridgeNetR technology ready,<br>Solar System management | | | BusBridgeNetR technology ready | | |
| 70 | | | 74 | | |

# ALTEAS X

## Wall-hung compact boiler with AUTO function

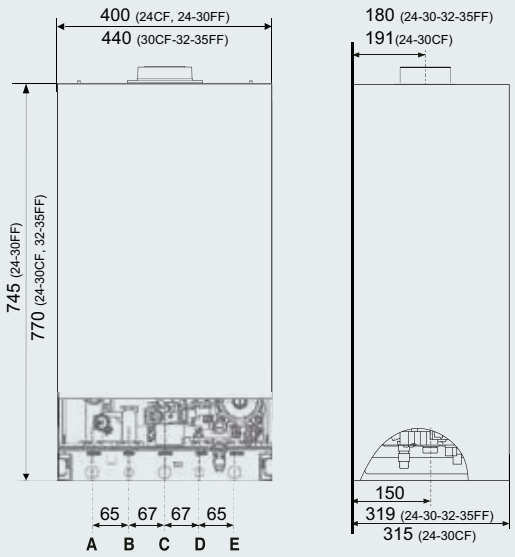
/ Very high efficiency (up to 93,6%, 24FF)
/ Ready to be used with **renewable sources** for hot water production

/ **Best enjoyable** design of its category
/ **High resolution LCD display with full text, touch interface and intuitive menu**

/ BusBridgeNet® communication protocol
/ **Ariston Net embedded** (Wi-Fi gateway on board)
/ **Very good acoustic comfort** thanks to the new optimized silence

/ "AUTO function", **constant temperature for the maximum thermic comfort**
/ **"**Comfort Function", **instantaneous hot water, for 30', after first withdrawal, reducing waiting times**
/ TIMER PROGRAMMING

/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation**
/ Anti-freezing systems preventing freezing and scale accumulation
/ With its IPX5D, the protection, against water jet streams (only FF version)

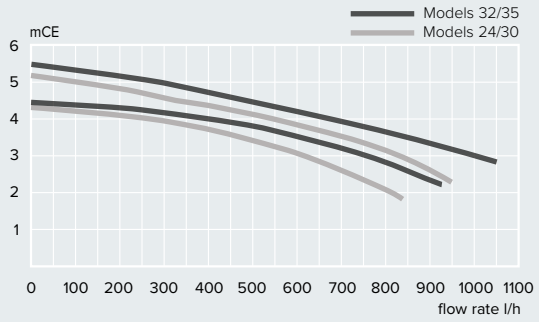



**LEGEND**

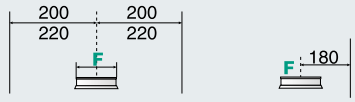
A \ Central Heating Flow
B \ Domestic Hot Water Outlet
C \ Gas Inlet
D \ Domestic Cold Water Inlet
E \ Central Heating Return

ITALIAN DESIGN · AUTO FUNCTION · COMFORT FUNCTION · SMART MENU · EASY INSTALLATION · EASY MAINTENANCE · SYSTEM MANAGEMENT · COMPACT SIZE

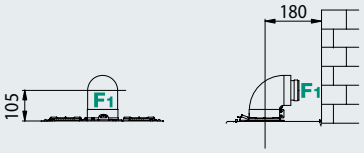
**Graph of boiler's residual head**




**CF Version** - Natural draught

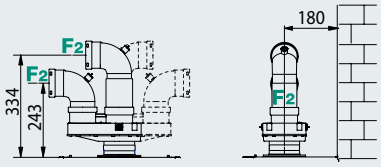



**FF Versions** - Coaxial exhaust




Ø60/100: up to 4m (24-28 kW) - 2m (32-35 kW)
Ø80/125: up to 11m (24-28 kW) - 8 m (32 kW) - 7 m (35 kW)

**FF Versions** - Twin pipe exhaust




Ø80/80: up to 45m (24kW) - 50m (28kW) - 33m (32-35 kW)

| TECHNICAL DATA | | 24 CF | 30 CF | 24 FF | 30 FF | 32 FF | 35 FF |
|---|---|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | | | |
| Max/min nominal heat input(Hi) | kW | 25,8/11,0 | 29,5/13,0 | 25,8/11,0 | 30,0/13,0 | 32,5/15,0 | 34,5/15,0 |
| Max/min nominal heat input (Hs) | kW | 28,7/12,2 | 32,8/14,4 | 28,7/12,2 | 33,3/14,4 | 36,1/16,7 | 38,3/16,7 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 30,5/13,0 | 25,8/11,0 | 30,0/13,0 | 34,5/15,0 | 34,5/15,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 33,9/14,4 | 28,7/12,2 | 33,3/14,4 | 38,3/16,7 | 38,3/16,7 |
| Heat output: max/min | kW | 23,7/9,9 | 26,5/11,2 | 24,0/9,5 | 28,1/11,6 | 29,6/12,8 | 32,3/13,2 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 27,9/11,9 | 23,6/10,0 | 27,4/11,9 | 32,2/14,0 | 32,2/14,0 |
| Combustion efficiency (of flue gas) | % | 92,7 | 92,8 | 93,7 | 93,8 | 93,1 | 93,9 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 91,9/82,8 | 89,9/81,0 | 93,1/83,8 | 93,6/84,3 | 91,1/82,0 | 93,6/84,3 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 91,2/82,1 | 89,7/80,8 | 93,3/84,0 | 93,7/84,4 | 89,8/80,9 | 92,6/83,4 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,2 | 86,5/77,9 | 86,7/78,1 | 93,7/84,4 | 85,0/76,5 | 88,2/79,4 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ★★ | ★★ | ★★★ | ★★★ | ★★★ | ★★★ |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,8 | 2,9 | 0,6 | 0,2 | 2 | 0,3 |
| Heat loss through the flue when burner on | % | 7,3 | 7,2 | 6,3 | 6,2 | 6,9 | 6,1 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| **EMISSIONS** | | | | | | | |
| Residual discharge head | Pa | - | - | 120 | 145 | 130 | 130 |
| Minimun draw | Pa | 4,1 | 4,3 | - | - | - | - |
| Nox class | class | 2 | 2 | 3 | 3 | 3 | 3 |
| Flue fumes temperature (G20) | °C | 116 | 125 | 117 | 110 | 125 | 112 |
| CO2 content2 (G20) | % | 5,4 | 6,1 | 6,5 | 6,1 | 6,4 | 6,4 |
| CO content (0 %02) | ppm | 54 | 44 | 60 | 111 | 141 | 159 |
| O2 content2 (G20) | % | 10,8 | 9,5 | 8,8 | 9,5 | 9 | 9 |
| Max capacity fumes (G20) | kg/h | 67,2 | 70,2 | 56,9 | 71,2 | 77,2 | 77,2 |
| Excess air | % | 105 | 83 | 72 | 83 | 75 | 75 |
| **HEATING CIRCUIT** | | | | | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 | 8 | 8 | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | | | |
| Domestic hot water temperature max/min | °C | 60/36 | 60/36 | 60/36 | 60/36 | 60/36 | 60/36 |
| Specific flow rate of domestic hot water system (10 min. with ΔT=30°C) instant boilers | l/min | 11,8 | 13,2 | 11,2 | 13,2 | 15,1 | 15,1 |
| D.H.W. flow rate ΔT=25°C | l/min | 14,3 | 16 | 13,5 | 15,7 | 18,5 | 18,5 |
| D.H.W. flow rate ΔT=35°C | l/min | 10,2 | 11,4 | 9,6 | 11,2 | 13,2 | 13,2 |
| Hot water comfort stars (EN13203) | stars | ★★ | ★★ | ★★ | ★★ | ★★ | ★★ |
| D.H.W. minimum flow rate | l/min | <2 | <2 | 1,7 | 1,7 | 1,7 | 1,7 |
| Domestic hot water pressure max/min | Mpa (bar) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) |
| **ELECTRICAL** | | | | | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 |
| Power consumption | W | 50 | 50 | 84 | 101 | 101 | 101 |
| Minimum operating room temperature | °C | 5 | 5 | 5 | 5 | 5 | 5 |
| Electric system grades of protection | IP | X5D | X5D | X5D | X5D | X5D | X5D |
| Weight | kg | 27 | 28 | 31 | 32 | 30 | 31 |
| **CODE** | | | | | | | |
| | | 3300844 | 3300846 | 3300845 | 3300847 | 3300848 | 3300849 |

*For complete list of accessories see page 79*

# GENUS X

## Wall-hung compact boiler with AUTO function

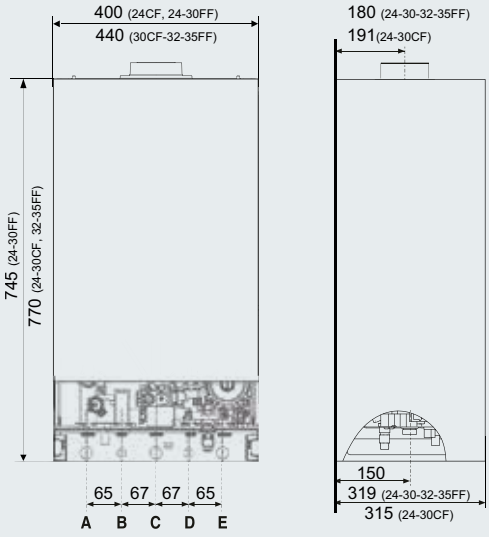
/ Very high efficiency (up to 93,8%, 24FF)
/ Ready to be used with **renewable sources** for hot water production

/ **Best enjoyable** design of its category
/ **High resolution LCD display with full text, touch interface and intuitive menu**

/ BusBridgeNet® communication protocol
/ **Ariston Net ready for - Ariston Net embedded**
/ **Very good acoustic comfort** thanks to the new optimized silence

/ "AUTO function", **constant temperature for the maximum thermic comfort**
/ "Comfort Function", **instantaneous hot water, for 30', after first withdrawal, reducing waiting times**

/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation**
/ Anti-freezing systems preventing freezing and scale accumulation
/ With its IPX5D, the protection, against water jet streams (only FF version)

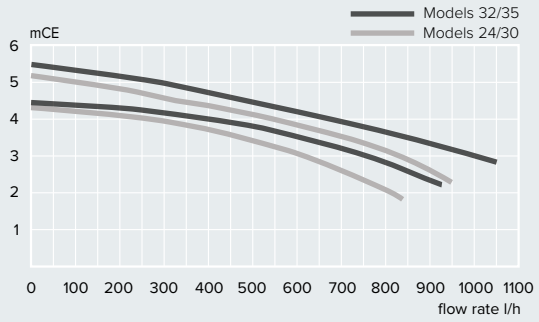



**LEGEND**

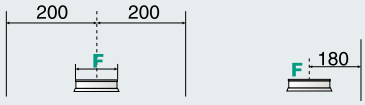
A: Central Heating Flow
B: Domestic Hot Water Outlet
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return

ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | SMART MENU | EASY INSTALLATION | EASY MAINTENANCE | SYSTEM MANAGEMENT | COMPACT SIZE

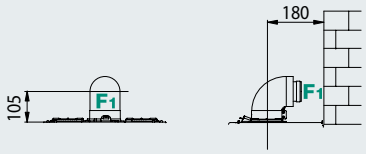
**Graph of boiler's residual head**




**CF Version** - Natural draught

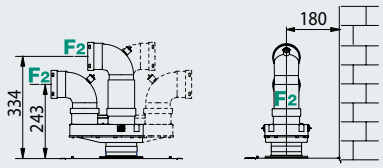



**FF Versions** - Coaxial exhaust




Ø60/100: up to 4m (24-28 kW) - 2m (32-35 kW)
Ø80/125: up to 11m (24-28 kW) - 8 m (32 kW) - 7 m (35 kW))

**FF Versions** - Twin pipe exhaust




Ø80/80: up to 45m (24kW) - 50m (28kW) - 33m (32 kW) - 33m (35 kW)

| TECHNICAL DATA | | 24 CF | 30 CF | 24 FF | 30 FF | 32 FF | 35 FF |
|---|---|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | | | |
| Max/min nominal heat input(Hi) | kW | 25,8/11,0 | 29,5/13,0 | 25,8/11,0 | 30,0/13,0 | 32,5/15,0 | 34,5/15,0 |
| Max/min nominal heat input (Hs) | kW | 28,7/12,2 | 32,8/14,4 | 28,7/12,2 | 33,3/14,4 | 36,1/16,7 | 38,3/16,7 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 30,5/13,0 | 25,8/11,0 | 30,0/13,0 | 34,5/15,0 | 34,5/15,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 33,9/14,4 | 28,7/12,2 | 33,3/14,4 | 38,3/16,7 | 38,3/16,7 |
| Heat output: max/min | kW | 23,7/9,9 | 26,5/11,2 | 24,0/9,5 | 28,1/11,6 | 29,6/12,8 | 32,3/13,2 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 27,9/11,9 | 23,6/10,0 | 27,4/11,9 | 32,2/14,0 | 32,2/14,0 |
| Combustion efficiency (of flue gas) | % | 92,7 | 92,8 | 93,7 | 93,8 | 93,1 | 93,9 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 91,9/82,8 | 89,9/81,0 | 93,1/83,8 | 93,6/84,3 | 91,1/82,0 | 93,6/84,3 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 91,2/82,1 | 89,7/80,8 | 93,3/84,0 | 93,7/84,4 | 89,8/80,9 | 92,6/83,4 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,2 | 86,5/77,9 | 86,7/78,1 | 93,7/84,4 | 85,0/76,5 | 88,2/79,4 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ★★ | ★★ | ★★★ | ★★★ | ★★★ | ★★★ |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,8 | 2,9 | 0,6 | 0,2 | 2 | 0,3 |
| Heat loss through the flue when burner on | % | 7,3 | 7,2 | 6,3 | 6,2 | 6,9 | 6,1 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| **EMISSIONS** | | | | | | | |
| Residual discharge head | Pa | - | - | 120 | 145 | 130 | 130 |
| Minimun draw | Pa | 4,1 | 4,3 | - | - | - | - |
| Nox class | class | 2 | 2 | 3 | 3 | 3 | 3 |
| Flue fumes temperature (G20) | °C | 116 | 125 | 117 | 110 | 125 | 112 |
| CO2 content2 (G20) | % | 5,4 | 6,1 | 6,5 | 6,1 | 6,4 | 6,4 |
| CO content (0 %02) | ppm | 54 | 44 | 60 | 111 | 141 | 159 |
| O2 content2 (G20) | % | 10,8 | 9,5 | 8,8 | 9,5 | 9 | 9 |
| Max capacity fumes (G20) | kg/h | 67,2 | 70,2 | 56,9 | 71,2 | 77,2 | 77,2 |
| Excess air | % | 105 | 83 | 72 | 83 | 75 | 75 |
| **HEATING CIRCUIT** | | | | | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 | 8 | 8 | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | | | |
| Domestic hot water temperature max/min | °C | 60/36 | 60/36 | 60/36 | 60/36 | 60/36 | 60/36 |
| Specific flow rate of domestic hot water system (10 min. with ΔT=30°C) instant boilers | l/min | 11,8 | 13,2 | 11,2 | 13,2 | 15,1 | 15,1 |
| D.H.W. flow rate ΔT=25°C | l/min | 14,3 | 16 | 13,5 | 15,7 | 18,5 | 18,5 |
| D.H.W. flow rate ΔT=35°C | l/min | 10,2 | 11,4 | 9,6 | 11,2 | 13,2 | 13,2 |
| Hot water comfort stars (EN13203) | stars | ★★ | ★★ | ★★ | ★★ | ★★ | ★★ |
| D.H.W. minimum flow rate | l/min | <2 | <2 | 1,7 | 1,7 | 1,7 | 1,7 |
| Domestic hot water pressure max/min | Mpa (bar) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) |
| **ELECTRICAL** | | | | | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 |
| Power consumption | W | 50 | 50 | 84 | 101 | 101 | 101 |
| Minimum operating room temperature | °C | 5 | 5 | 5 | 5 | 5 | 5 |
| Electric system grades of protection | IP | X5D | X5D | X5D | X5D | X5D | X5D |
| Weight | kg | 27 | 28 | 31 | 32 | 30 | 31 |
| **CODE** | | | | | | | |
| | | 3300850 | 3300852 | 3300851 | 3300853 | 3300854 | 3300855 |

*For complete list of accessories see page 79*

# CLAS X

## Wall-hung compact boiler with AUTO function

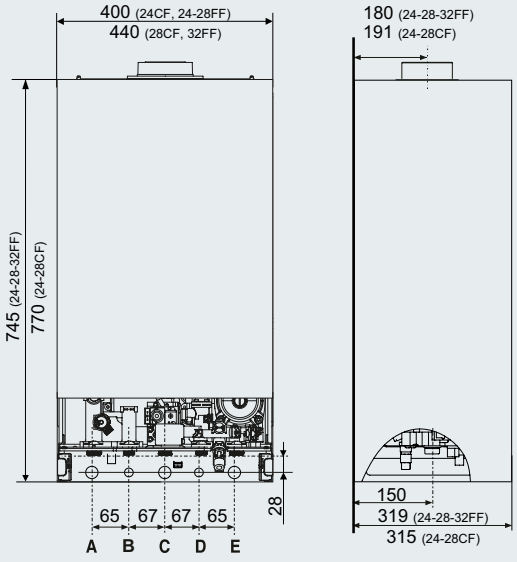
/ Very high efficiency (up to 93,8%, 24FF)
/ Ready to be used with **renewable sources** for hot water production

/ **Best enjoyable design** of its category
/ **High resolution LCD display with full text, touch interface and intuitive menu**

/ BusBridgeNet® communication protocol
/ **Ariston Net** ready for

/ "AUTO function", **constant temperature for the maximum thermic comfort**
/ "Comfort Function", **instantaneous hot water, for 30', after first withdrawal, reducing waiting times**

/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation**
/ Anti-freezing systems preventing freezing and scale accumulation
/ With its IPX5D, the protection, against water jet streams

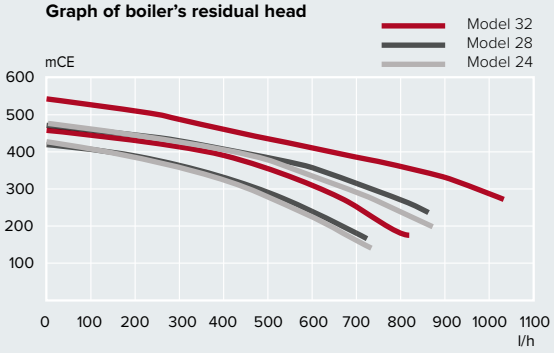



**LEGEND**

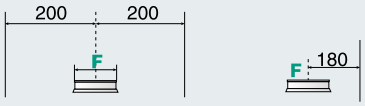
A: Central Heating Flow
B: Domestic Hot Water Outlet
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return

ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | EASY TO USE | EASY INSTALLATION | EASY MAINTENANCE | SYSTEM MANAGEMENT | COMPACT SIZE

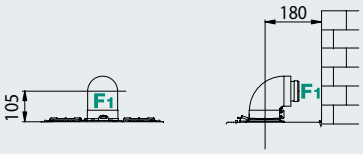
**Graph of boiler's residual head**




**CF Version** - Natural draught

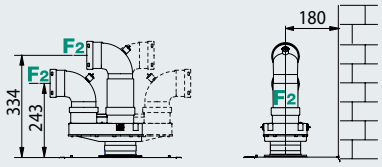



**FF Versions** - Coaxial exhaust




Ø60/100: up to 4m (24-28 kW)
Ø80/125: up to 11m (24-28 kW)

**FF Versions** - Twin pipe exhaust




Ø80/80: up to 45m (24kW) - 50m (28kW)

| TECHNICAL DATA | | 24 CF | 24 FF | 28 FF |
|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | |
| Max/min nominal heat input(Hi) | kW | 25,8/11,0 | 25,8/11,0 | 30,0/13,0 |
| Max/min nominal heat input (Hs) | kW | 28,7/12,2 | 28,7/12,2 | 33,3/14,4 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 25,8/11,0 | 30,0/13,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 28,7/12,2 | 33,3/14,4 |
| Heat output: max/min | kW | 23,7/9,9 | 24,0/9,5 | 28,1/11,6 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 23,6/10,0 | 27,4/11,9 |
| Combustion efficiency (of flue gas) | % | 92,7 | 93,7 | 93,8 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 91,9/82,8 | 93,1/83,8 | 93,6/84,3 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 91,2/82,1 | 93,3/84,0 | 93,7/84,4 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,2 | 86,7/78,1 | 89,3/80,4 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ★★ | ★★★ | ★★★ |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,8 | 0,6 | |
| Heat loss through the flue when burner on | % | 7,3 | 6,3 | 6,5 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0,4 | 0,4 |
| **EMISSIONS** | | | | |
| Residual discharge head | Pa | - | 120 | 145 |
| Minimun draw | Pa | 4,1 | - | - |
| Nox class | class | 2 | 3 | 3 |
| Flue fumes temperature (G20) | °C | 116 | 117 | 110 |
| CO2 content2 (G20) | % | 5,4 | 6,5 | 6 |
| CO content (0 %02) | ppm | 54 | 60 | 111 |
| O2 content2 (G20) | % | 10,8 | 8,8 | 9,7 |
| Max capacity fumes (G20) | kg/h | 67,2 | 56,9 | 71,2 |
| Excess air | % | 105 | 72 | 86 |
| **HEATING CIRCUIT** | | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | |
| Domestic hot water temperature max/min | °C | 60/36 | 60/36 | 60/36 |
| Specific flow rate of domestic hot water system (10 min. with ΔT=30°C) instant boilers | l/min | 11,8 | 11,2 | 13,2 |
| D.H.W. flow rate ΔT=25°C | l/min | 14,3 | 13,5 | 15,7 |
| D.H.W. flow rate ΔT=35°C | l/min | 10,2 | 9,6 | 11,2 |
| Hot water comfort stars (EN13203) | stars | ★★ | ★★ | ★★ |
| D.H.W. minimum flow rate | l/min | <2 | <2 | <2 |
| Domestic hot water pressure max/min | Mpa (bar) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) |
| **ELECTRICAL** | | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 | 220/50 |
| Power consumption | W | 50 | 108 | 131 |
| Minimum operating room temperature | °C | 5 | 5 | 5 |
| Electric system grades of protection | IP | X5D | X5D | X5D |
| Weight | kg | 27 | 29 | 28 |
| **CODE** | | | | |
| | | 3300866 | 3300864 | 3300865 |

*For complete list of accessories see page 79*

# CLAS X SYSTEM

## Wall-hung compact boiler, ready to use with external DHW tank

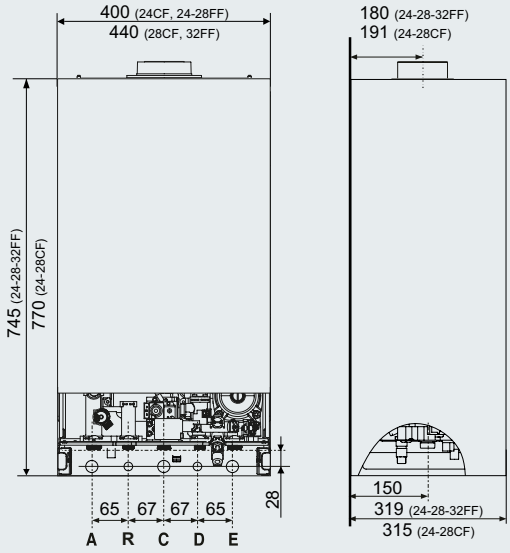
/ Very high efficiency (up to 93,6%, 28FF)

/ **Best enjoyable** design of its category
/ **High resolution LCD display with full text, touch interface and intuitive menu**

/ BusBridgeNet® communication protocol
/ **Ariston Net** ready for

/ "AUTO function", **constant temperature for the maximum thermic comfort**
/ The equipment allows the production of domestic hot water with the connection of an external tank

/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation**
/ Anti-freezing systems preventing freezing and scale accumulation
/ With its IPX5D, the protection, against water jet streams

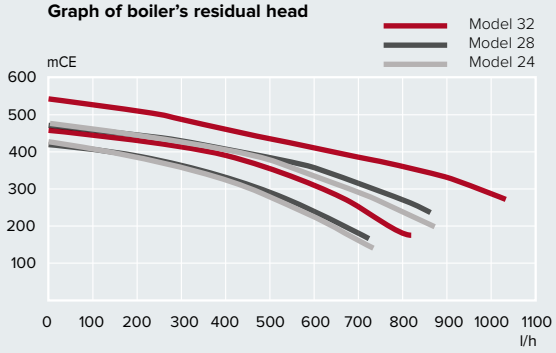



**LEGEND**

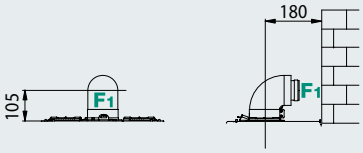
A: Central Heating Flow + Tank Inlet (CLAS X SYSTEM)
R: Tank return (CLAS X SYSTEM)
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return

ITALIAN DESIGN | AUTO FUNCTION | COMFORT FUNCTION | EASY TO USE | EASY INSTALLATION | EASY MAINTENANCE | SYSTEM MANAGEMENT | COMPACT SIZE

**Graph of boiler's residual head**

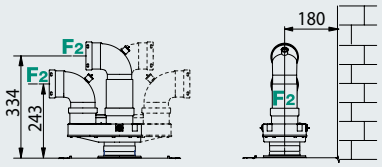



**FF Versions** - Coaxial exhaust




Ø60/100: up to 4m (24-28 kW) - 2m (32 kW)
Ø80/125: up to 11m (24-28 kW) - 8 m (32 kW)

**FF Versions** - Twin pipe exhaust




Ø80/80: up to 45m (24kW) - 50m (28kW) - 33m (32 kW)

| TECHNICAL DATA | | 24 CF | 28 CF | 24 FF | 28 FF | 32 FF |
|---|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | | |
| Max/min nominal heat input(Hi) | kW | 25,8/11,0 | 29,5/13,0 | 25,8/11,0 | 30,0/13,0 | 34,5/15,0 |
| Max/min nominal heat input (Hs) | kW | 28,7/12,2 | 32,8/14,4 | 28,7/12,2 | 33,3/14,4 | 38,3/16,7 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 30,5/13,0 | 25,8/11,0 | 30,0/13,0 | 34,5/15,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 33,9/14,4 | 28,7/12,2 | 33,3/14,4 | 29,6/12,8 |
| Heat output: max/min | kW | 23,7/9,9 | 26,5/11,2 | 24,0/9,5 | 28,1/11,6 | 32,3/13,2 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 27,9/11,9 | 23,6/10,0 | 27,4/11,9 | 32,2/14,0 |
| Combustion efficiency (of flue gas) | % | 92,7 | 92,8 | 93,7 | 93,8 | 93,1 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 91,9/82,8 | 89,9/81,0 | 93,1/83,8 | 93,6/84,3 | 91,1/82,0 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 91,2/82,1 | 89,7/80,8 | 93,3/84,0 | 93,7/84,4 | 89,9/80,9 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,2 | 86,5/77,9 | 86,7/78,1 | 89,3/80,4 | 85,0/76,5 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ★★ | ★★ | ★★★ | ★★★ | ★★★ |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,8 | 2,9 | 0,6 | | 2 |
| Heat loss through the flue when burner on | % | 7,3 | 7,2 | 6,3 | 6,5 | 6,9 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0,4 | 0,4 | 0,4 | 0,4 |
| **EMISSIONS** | | | | | | |
| Residual discharge head | Pa | - | - | 120 | 145 | 130 |
| Minimun draw | Pa | 4,1 | 4,3 | - | - | - |
| Nox class | class | 2 | 2 | 3 | 3 | 3 |
| Flue fumes temperature (G20) | °C | 116 | 125 | 117 | 113 | 125 |
| CO2 content2 (G20) | % | 5,4 | 6,1 | 6,5 | 6 | 6,4 |
| CO content (0 %02) | ppm | 54 | 44 | 60 | 111 | 141 |
| O2 content2 (G20) | % | 10,8 | 9,5 | 8,8 | 9,7 | 9 |
| Max capacity fumes (G20) | kg/h | 67,2 | 70,2 | 56,9 | 71,2 | 77,2 |
| Excess air | % | 105 | 83 | 72 | 86 | 75 |
| **HEATING CIRCUIT** | | | | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 | 8 | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | | |
| Domestic hot water temperature (SYSTEM MOD.) max/min | | 60/40 | 60/40 | 60/40 | 60/40 | 60/40 |
| **ELECTRICAL** | | | | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 |
| Power consumption | W | 78 | 78 | 108 | 131 | 127 |
| Minimum operating room temperature | °C | 5 | 5 | 5 | 5 | 5 |
| Electric system grades of protection | IP | X5D | X5D | X5D | X5D | X5D |
| Weight | kg | 27 | 28 | 29 | 28 | 31 |
| **CODE** | | | | | | |
| | | 3300867 | 3300868 | 3300869 | 3300870 | 3300871 |

*For complete list of accessories see page 79*

# CARES X

## Wall-hung compact boiler

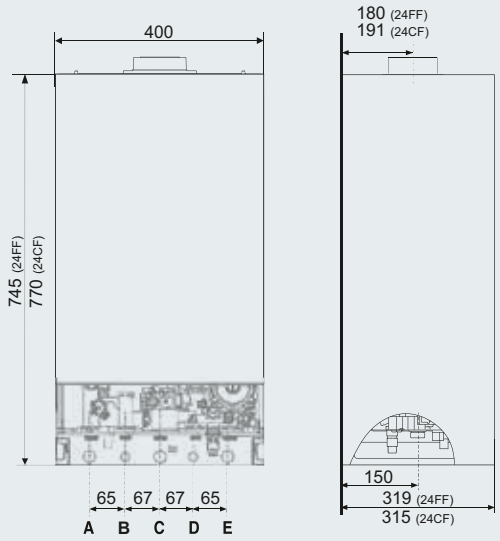
/ Very high efficiency (up to 93,8%, 24FF)

/ **LCD display and intuitive menu**

/ **Ariston Net** ready for

/ Addition of a thermostatic mixing valve allows the **connection with a natural circulation solar water heater**
/ The boiler is already equipped for the **domestic hot water production**
/ Connection of on-off thermoregulation accessories allows the heating programming for the whole week
/ Suitable for heating large spaces

/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation with the addition of heating return filter**
/ Anti-freezing systems preventing freezing and scale accumulation
/ The external combustion analysis port allows easy check of combustion quality

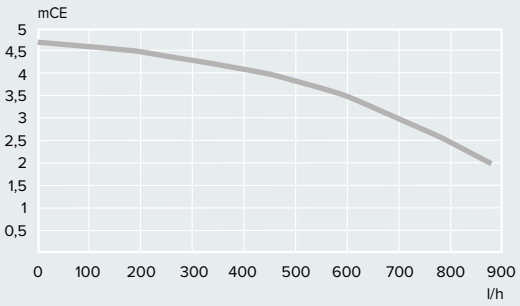



**LEGEND**

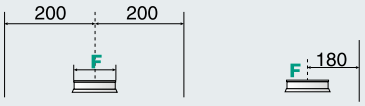
A: Central Heating Flow
B: Domestic Hot Water Outlet
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return

EASY TO USE | EASY INSTALLATION | EASY MAINTENANCE | SYSTEM MANAGEMENT | MADE IN ITALY

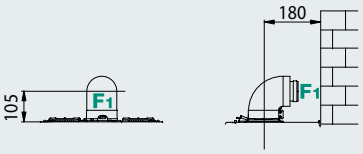
**Graph of boiler's residual head**




**CF Version** - Natural draught

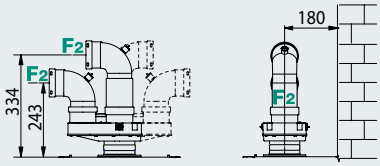



**FF Versions** - Coaxial exhaust




Max lenght:
Ø60/100: up to 4m (15-18-24 kW)
Ø80/125: up to 11m (15-18-24 kW)

**FF Versions** - Twin pipe exhaust




Max lenght:
Ø80/80: up to 45m (15-18-24 kW)

| TECHNICAL DATA | | 15 CF | 24 CF | 15 FF | 18 FF | 24 FF |
|---|---|---|---|---|---|---|
| **POWER SPECIFICATIONS** | | | | | | |
| Max/min nominal heat input(Hi) | kW | 16,5/11,0 | 25,8/11,0 | 15,0/11,0 | 19,0/11,0 | 25,8/11,0 |
| Max/min nominal heat input (Hs) | kW | 18,3/12,2 | 28,7/12,2 | 16,7/12,2 | 21,1/12,2 | 28,7/12,2 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 27,0/11,0 | 25,8/11,0 | 25,8/11,0 | 25,8/11,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 30,0/12,2 | 28,7/12,2 | 28,7/12,2 | 28,7/12,2 |
| Heat output: max/min | kW | 14,9/9,9 | 23,7/9,9 | 13,5/9,5 | 17,8/9,5 | 24,0/9,5 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 25,0/10,2 | 23,6/10,0 | 23,6/10,0 | 23,6/10,0 |
| Combustion efficiency (of flue gas) | % | 90,9 | 92,7 | 92,9 | 93,8 | 93,7 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 90,2/81,2 | 91,9/82,8 | 90,2/81,2 | 93,6/84,3 | 93,1/83,8 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 89,5/80,6 | 91,2/82,1 | 89,3/80,4 | 92,4/83,2 | 93,3/84,0 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,8 | 90,2/81,2 | 86,7/78,1 | 86,7/78,1 | 86,7/78,1 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ★★ | ★★ | ★★ | ★★★ | ★★★ |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,7 | 0,8 | 2,7 | 0,2 | 0,6 |
| Heat loss through the flue when burner on | % | 9,1 | 7,3 | 7,1 | 6,2 | 6,3 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0 ,4 | 0,4 | 0,4 | 0,4 |
| **EMISSIONS** | | | | | | |
| Residual discharge head | Pa | - | - | 120 | 120 | 120 |
| Minimun draw | Pa | 3,6 | 4,1 | - | - | - |
| Nox class | class | 2 | 2 | 3 | 3 | 3 |
| Flue fumes temperature (G20) | °C | 98 | 116 | 115 | 115 | 117 |
| CO2 content2 (G20) | % | 3,4 | 5,4 | 5,5 | 6,5 | 6,5 |
| CO content (0 %02) | ppm | 14 | 54 | 40 | 22 | 60 |
| O2 content2 (G20) | % | 14,4 | 10,8 | 10,6 | 8,8 | 8,8 |
| Max capacity fumes (G20) | kg/h | 67,2 | 67,2 | 56,9 | 56,9 | 56,9 |
| Excess air | % | 219 | 105 | 101 | 72 | 72 |
| **HEATING CIRCUIT** | | | | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 | 8 | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 | 82/35 | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | | | | |
| Domestic hot water temperature max/min | °C | 60/36 | 60/36 | 60/36 | 60/36 | 60/36 |
| Specific flow rate of domestic hot water system (10 min. with ΔT=30°C) instant boilers | l/min | 11,8 | 11,8 | 11,2 | 11,2 | 11,2 |
| D.H.W. flow rate ΔT=25°C | l/min | 14,3 | 14,3 | 13,5 | 13,5 | 13,5 |
| D.H.W. flow rate ΔT=35°C | l/min | 10,2 | 10,2 | 9,6 | 9,6 | 9,6 |
| Hot water comfort stars (EN13203) | stars | ★★ | ★★ | ★★ | ★★ | ★★ |
| D.H.W. minimum flow rate | l/min | <2 | <2 | <2 | <2 | <2 |
| Domestic hot water pressure max/min | Mpa (bar) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) | 0,7/0,1 (7/1) |
| **ELECTRICAL** | | | | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 | 220/50 | 220/50 | 220/50 |
| Power consumption | W | 78 | 78 | 112 | 112 | 112 |
| Minimum operating room temperature | °C | 5 | 5 | 5 | 5 | 5 |
| Electric system grades of protection | IP | X4D | X4D | X5D | X5D | X5D |
| Weight | kg | 26 | 26 | 28 | 28 | 28 |
| **CODE** | | | | | | |
| | | 3300889 | 3300888 | 3300887 | 3300886 | 3300885 |

*For complete list of accessories see page 79*

# CARES X SYSTEM

## Wall-hung compact boiler, ready to use with external DHW tank

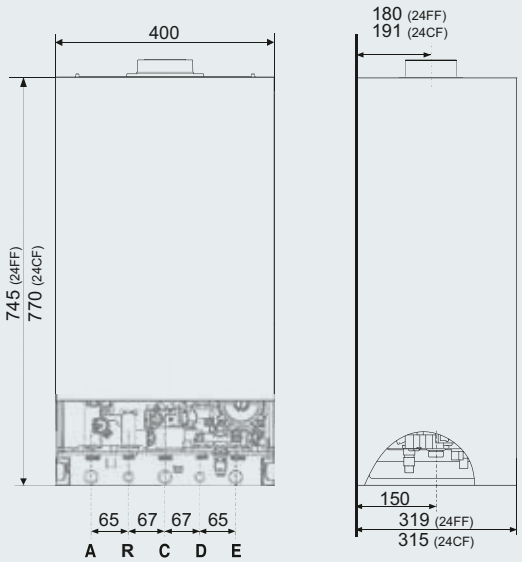
/ Very high efficiency (up to 93,8%, 24FF)

/ **LCD display and intuitive menu**

/ **Ariston Net** ready for

/ The equipment allows the production of domestic hot water with the connection of an external tank
/ Connection of on-off thermoregulation accessories allows the heating programming for the whole week
/ Suitable for heating large spaces

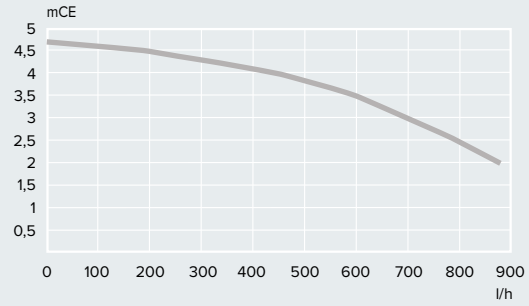
/ Best materials available to guarantee high reliability and very long lifecycle
/ **Boiler protection from water impurities accumulation with the addition of heating return filter**
/ Anti-freezing systems preventing freezing and scale accumulation
/ The external combustion analysis port allows easy check of combustion quality



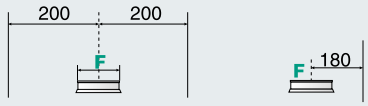

**LEGEND**

A: Central Heating Flow + Tank Inlet
R: Tank return (CARES X SYSTEM)
C: Gas Inlet
D: Domestic Cold Water Inlet
E: Central Heating Return

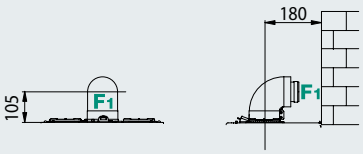
EASY TO USE | EASY INSTALLATION | EASY MAINTENANCE | SYSTEM MANAGEMENT | MADE IN ITALY




**CF Version** - Natural draught

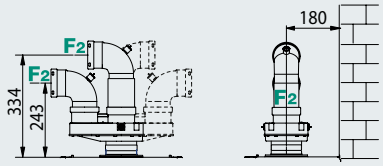



**FF Versions** - Coaxial exhaust




Max lenght:
Ø60/100: up to 4m (24 kW)
Ø80/125: up to 11m (24 kW)

**FF Versions** - Twin pipe exhaust




Max lenght:
Ø80/80: up to 45m (24kW)

| TECHNICAL DATA | | 24 CF | 24 FF |
|---|---|---|---|
| **POWER SPECIFICATIONS** | | | |
| Max/min nominal heat input(Hi) | kW | 25,8/11,0 | 25,8/11,0 |
| Max/min nominal heat input (Hs) | kW | 28,7/12,2 | 28,7/12,2 |
| Max/min nominal heat input for hot water (Hi) | kW | 27,0/11,0 | 25,8/11,0 |
| Max/min nominal heat input for hot water (Hs) | kW | 30,0/12,2 | 28,7/12,2 |
| Heat output: max/min | kW | 23,7/9,9 | 24,0/9,5 |
| D.H.W. Heat output: max/min | kW | 25,0/10,2 | 23,6/10,0 |
| Combustion efficiency (of flue gas) | % | 92,7 | 93,7 |
| Gross efficiency of nominal heat input (60/80 °C) Hi/Hs | % | 91,9/82,8 | 93,1/83,8 |
| Gross efficiency at 30 % at 47°C Hi/Hs | % | 91,2/82,1 | 93,3/84,0 |
| Gross efficiency at minimum power Hi/Hs | % | 90,2/81,2 | 86,7/78,1 |
| Number of efficiency stars (Directive 92/42/EEC) | stars | ** | *** |
| Ma. heat loss to the casing (ΔT = 50°C) | % | 0,8 | 0,6 |
| Heat loss through the flue when burner on | % | 7,3 | 6,3 |
| Heat loss through the flue when burner off | % | 0 ,4 | 0,4 |
| **EMISSIONS** | | | |
| Residual discharge head | Pa | - | 120 |
| Minimun draw | Pa | 4,1 | - |
| Nox class | class | 2 | 3 |
| Flue fumes temperature (G20) | °C | 116 | 117 |
| CO2 content2 (G20) | % | 5,4 | 6,5 |
| CO content (0 %02) | ppm | 54 | 60 |
| O2 content2 (G20) | % | 10,8 | 8,8 |
| Max capacity fumes (G20) | kg/h | 67,2 | 56,9 |
| Excess air | % | 105 | 72 |
| **HEATING CIRCUIT** | | | |
| Expansion vessel pre-charged pressure | Mpa (bar) | 0,1 (1) | 0,1 (1) |
| Maximum central heating circuit pressure | Mpa (bar) | 0,3 (3) | 0,3 (3) |
| Expansion vessel capacity | l | 8 | 8 |
| Central heating temperature: max/min | °C | 82/35 | 82/35 |
| **DOMESTIC HOT WATER CIRCUIT** | | | |
| Domestic hot water temperature (SYSTEM MOD.) max/min | °C | 60/40 | 60/40 |
| **ELECTRICAL** | | | |
| Power supply voltage/frequency | V/Hz | 220/50 | 220/50 |
| Power consumption | W | 78 | 112 |
| Minimum operating room temperature | °C | 5 | 5 |
| Electric system grades of protection | IP | X5D | X5D |
| Weight | kg | 26 | 28 |
| **CODE** | | | |
| | | 3300891 | 3300890 |

*For complete list of accessories see page 79*

/ THE MAXIMUM COMFORT WITH THE MINIMUM ENERGY CONSUMPTION IS OUR PRIORITIY

/ THE SUN AND THE AIR ARE PRECIOUS. FOR THIS REASON THEY ARE IMPORTANT FOR OUR SYSTEMS

/ THE RIGHT SOLUTION FOR THE BEST ENERGY EFFICIENCY

ARISTON


# THERMOREGULATION AND SYSTEM MANAGEMENT ACCESSORIES

# THE NEW THERMOREGULATION THAT TAKES CARE OF YOUR COMFORT


/ CUBE S NET


/ CUBE


/ CUBE RF

## CUBE S NET

/ It is the new thermostat which includes Ariston NET connectivity. Large display and touchscreen interface, easy to install and powered directly from the Bus. In automatic mode, it downloads the outdoor temperature from the internet to further increase comfort in the home in both summer and winter.

## CUBE

/ Room thermostat suitable for multi-zone management. Small, easy to use and compatible with Ariston boilers, heat pumps and hybrid systems. No batteries are required as it is powered directly from the bus. Perfect for multi-zone management up to 6 zones.

## CUBE RF

/Using radio technology, it is possible to create wireless systems for up to 6 zones. Creating a mult-zone system has never been so easy and convenient.

/ SENSYS


/ SENSYS NET

/ EXTERNAL SENSOR

## SENSYS

/ The system manager. It is an easy to use thermostat making it possible to manage the configuration of our products and systems at home.

## SENSYS NET

/ The system manager also includes Ariston NET connectivity. Standard with S, M and recessed hybrid heat pumps. Maximum flexibility of installation: the gateway can be installed behind the Sensys or beside the generator.

## OUTDOOR SENSOR

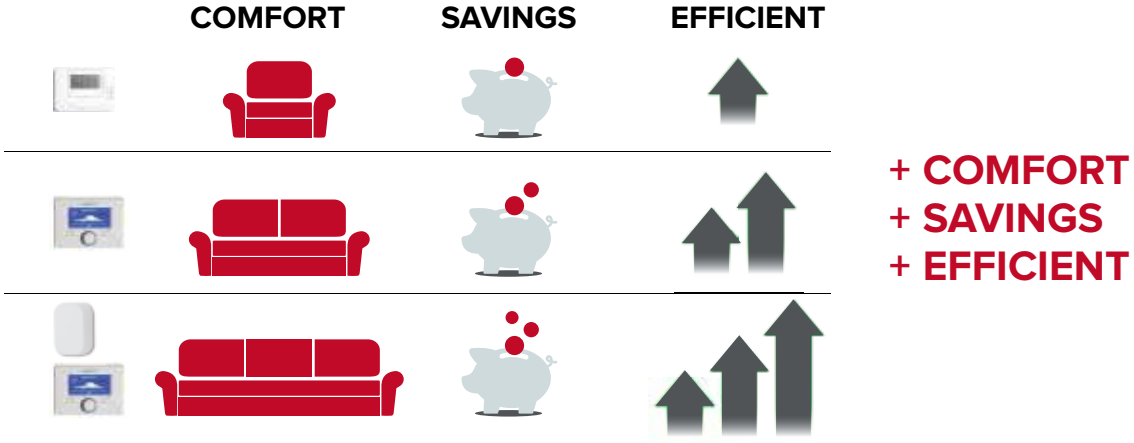
/ It continuously monitors the outdoor temperature in real time, allowing it to anticipate and react to changing environmental conditions.

# SENSYS, MUCH MORE THAN A THERMOSTAT

## COMPLETE CONTROL OF YOUR SYSTEM THROUGH THE SIMPLICITY OF A SINGLE DEVICE

- / Intuitive navigation and easy to read, thanks to a large back-lit display
- / Complete control of all system components through Bus BridgeNet® communication protocol
- / Configure space heating and hot water settings
- / Displays kWh stored from solar
- / Displays kg of $CO_2$ saved using renewable energy sources.
- / Modulating temperature control
- / Day and night room temperature control
- / Automatic regulation function
- / Italian design

# THE EVOLUTION OF COMFORT CONTROL

# NEW CUBE THERMOSTATS


## CUBE S NET

### WI-FI THERMOSTAT

/ Integrated Ariston NET connectivity
/ Hi-Tech Italian Design
/ TFT touch-screen display
/ Modulation technology
/ Plug&Play installation
/ Outdoor temperature via internet

ARISTON NET

NEW

# CUBE RF

## WIRELESS ROOM THERMOSTAT

/ Management of up to 6 hot/cold zones with the dedicated system management kits
/ Easily select the desired temperature
/ Modulation technology
/ Wired system also available

ARISTON NET

NEW

# Thermoregulation accessories

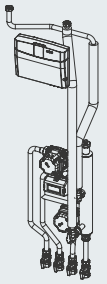
| Modulating temperature control accessories | Code | BusBridgenet® catalogue range of boilers | Nimbus hybrid system range | Nimbus S and M heat pump range |
|---|---|---|---|---|
| **SENSYS modulating system wired controller**<br><br>System manager that allows system set-up, weekly timer programming and also acts as a modulating room thermostat. | 3318585 | ● (Standard with the EXT/ IN and Genus Premium SOLAR FS range) | standard | standard |
| **CUBE S NET**<br><br>It is the new thermostat which includes Ariston NET connectivity.<br>Large display and touchscreen interface, easy to install and powered directly from the Bus.<br><br>Available from October | 3319126 | ● (Standard with Genus ONE NET, not Alteas) | - | - |
| **CUBE**<br><br>Room thermostat suitable for multi-zone management. Compact and easy to use | 3319116 | ● (standard with Alteas ONE NET) | ● | ● |
| **CUBE RF**<br><br>Using radio technology, it is possible to create wireless systems for up to 6 zones.<br><br>Maximum receiver range: 30 metres<br>2 replaceable AAA batteries included, 2 year battery life. | 3319118 | ● | ● | ● |

| Modulating temperature control accessories | Code | BusBridgenet® catalogue range of boilers | Nimbus hybrid system range | Nimbus S and M heat pump range | |
|---|---|---|---|---|---|
| **WIRED EXTERNAL SENSOR**<br>Modulating sensor to read outdoor temperature. | 3318588 | ●<br>(standard with Alteas ONE NET) | standard | standard |  |
| **OUTDOOR WiFi SENSOR**<br>Modulating sensor to read outdoor temperature. More generators can operate simultaneously, maximum open field distance of 300 m. To be purchased together with Bus receiver, cod. 3319120. | 3319091 | ● | ● | ● |  |
| **BUS receiver**<br>To be installed with wireless radio multi-zone systems, compatible with cube RF thermostat, radio zone modules, outdoor wireless sensor. | 3319120 | ● | ● | ● |  |
| **Analogue receiver**<br>Required to connect the outdoor wireless sensor for previous Cares Premium models or EVO range. | 3319093 | ●<br>Only Cares Premium | - | - | |

| Temperature control ON/OFF | Code | All BusBridgenet® models | Egis Plus CF EU | |
|---|---|---|---|---|
| **Wired ON/OFF timer-thermostat**<br>Daily or weekly heating programming<br>Integral proportional control<br>(comes before the boiler shuts OFF, based on the speed the boiler is coming up t the setpoint temperature) | 3318590 | ● | ● |  |
| **Wireless ON/OFF timer-thermostat (includes receiver)**<br>Daily or weekly heating programming<br>Integral proportional control<br>(comes before the boiler shuts OFF, based on the speed the boiler is coming up t the setpoint temperature) | 3318591 | ● | ● |  |
| **Wired ON/OFF BUS powered timer-thermostat (no batteries required)**<br>Daily or weekly heating programming<br>Integral proportional control<br>(comes before the boiler shuts OFF, based on the speed the boiler is coming up t the setpoint temperature) | 3318593 | ● | |  |
| **ON/OFF room thermostat** | 3318594 | ● | ● |  |

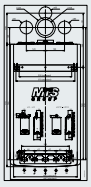
# System management accessories

| System management accessories | Code | BusBridgenet® catalogue range of boilers | Nimbus hybrid system range and Nimbus S and M heat pump range |
|---|---|---|---|
| **Multifunction circuit board**<br>- direct management or control of three zones<br>- differential thermostat (sensor not standard)<br>- thermostat (sensor not standard)<br>- boiler fault alarm and remote reset<br>- programmable output in combination with the Sensys | 3318636 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **Zone manager kit** | 3318628 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **MGZ I EVO - direct one zone system management module**<br>Components:<br>- hydraulic manifold with deaerator<br>- continuous **modulating** pump (maximum energy savings) with high head<br>- system management circuit board with communication via **Bus BridgeNet®**<br>- heating and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 400x500x160 mm (HxWxD) | 3318620 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **MGZ II EVO - Direct two zone system management module**<br>Components:<br>- hydraulic manifold with deaerator<br>- two continuous **modulating** pumps (maximum energy savings) with high head<br>- system management circuit board with communication via **Bus BridgeNet®**<br>- heating and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 400x500x160 mm (HxWxD) | 3318621 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **MGZ III EVO - Direct three zone system management module**<br>Components:<br>- hydraulic manifold with deaerator<br>- three continuous modulating pumps (maximum energy savings) with high head<br>- system management circuit board with communication via **Bus BridgeNet®**<br>- heating and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 400x500x160 mm (HxWxD) | 3318622 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **MGZ II EVO - Two zone multi-temperature system management module**<br>Components:<br>- hydraulic manifold with deaerator<br>- two continuous **modulating** pumps (maximum energy savings) with high head<br>- system management circuit board with communication via **Bus BridgeNet®**<br>- a **motorised mixer valve**<br>- heating and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 440x700x170 mm (HxWxD) | 3318624 | ●<br>Use together with the 3318585 for Cares Premium EU | ● |
| **MGM II C/F - Two zone hot/cold multi-temperature system management module.**Components:<br>- hydraulic manifold with deaerator<br>- two continuous **modulating** pumps (maximum energy savings) with high head<br>- system management circuit board with communication via **Bus BridgeNet®**<br>- a **motorised mixer valve**<br>- generator and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 430x670x180 mm (HxWxD) | 3319114 | - | ● |
| **MGZ III EVO - Three zone multi-temperature system management module** Components:<br>- hydraulic manifold with deaerator<br>- three continuous modulating pumps (maximum energy savings) with high head<br>- system management circuit board with communication via Bus BridgeNet®<br>- two motorised mixer valves<br>- heating and system side shut-off valves<br>- can be recessed or wall-mounted.<br>Dimensions: 440x700x170 mm (HxWxD) | 3318625 | ●<br>use in combination with 3318585 for Cares Premium EU | ● |

| System management accessories | Code | BusBridgenet® catalogue range of boilers | Nimbus hybrid system range and Nimbus S and M heat pump range | |
|---|---|---|---|---|
| **Hydraulic management kit I direct zone**<br>Compatible with recessed units making it possible to manage a one zone system which requires high heads/flows.<br><br>Compatible with the recessed solar system (Kairos EVO IN). | 3318926 | ●<br>only Kairos EVO IN | |  |
| **Hydraulic management kit for 2 mixed zone systems**<br>Compatible with recessed units makes it possible to manage 2 zones (one direct and one mixed) at different temperatures . Includes motorised modulating mixer valve.<br><br>Compatible with the recessed solar and hybrid systems. | 3319074 | ●<br>only Kairos EVO IN | ●<br>Only GENUS HYBRID FLEX IN NET |  |
| **BUS receiver**<br>To be installed with wireless radio multi-zone systems, compatible with cube RF thermostat, radio zone modules, outdoor wireless sensor. Connects directly with the Bus on the generator circuit board. | 3319120 | ● | ● |  |
| **BUS repeater**<br>To be installed with multi-zone wireless radio systems, if the radio signal is weak and insufficient. | 3319098 | ● | ● | |
| **Control module for 6 zone radio system**<br>For multi-zone wireless systems with up to 6 zones.<br>Compatible with the CUBE RF thermostat, BUS RECEIVER and able to power circulation pumps and zone valves.<br>Powered by mains electricity- | 3319121 | ● | ● |  |
| **Control module for 2 zone radio system**<br>For multi-zone wireless systems with up to 2 zones.<br>Compatible with the CUBE RF thermostat, BUS RECEIVER and able to power circulation pumps and zone valves.<br>Powered by mains electricity- | 3319122 | ● | ● |  |
| **Control module for wired 2 zone system**<br>For multi-zone wired systems with up to 2 zones.<br>Compatible with the CUBE and able to power circulation pumps and zone valves. Powered by mains electricity- | 3319130 | ● | ● |  |
| **Bus decoupling kit**<br>For use with Alteas and Genus ONE boilers with solar systems (in combination with Solar Manager). | 3319171 | ● | |  |
| **Safety thermostat for under floor system (20/90°C)**<br>For installation in underfloor systems, to limit the maximum flow temperature.<br>Regulation between 20°C and 90°C | 3318361 | ● | ● | |
| **Thermostatic limit switch 65°C with manual reset** | 3318281 | ● | ● | |

# Boiler accessories

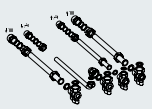
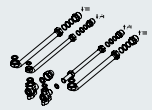
| Installation templates | Code | / ONE range boilers / Cares Premium / Clas EVO CF / Egis Plus CF | / Clas B Premium EVO EU | / Genus Premium EVO EXT EU / Egis Premium EVO EXT EU |
|---|---|---|---|---|
| **Metal template** contains universal metal assembly template with positioning "spirit level"; instructions for the installation of water pipe connections, wall bracket and flue gas exhaust ducts; cloth bag for easier transportation | 3318246 | • | | |
| **Kit of plastic-coated cardboard templates** (pack of 5) | 3318245 | • | | |
| **Kit of plastic-coated cardboard templates** (pack of 5) | 3318431 | | | • |
| **Plastic-coated cardboard boiler cylinder templates** (pack of 5) | 3318432 | | • | |

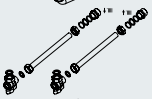
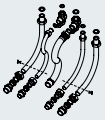


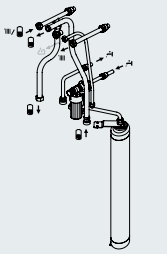
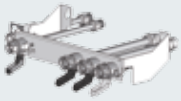
| Hydraulic accessories | Code | CONDENSING BOILERS | TRADITIONAL BOILERS |
|---|---|---|---|
| **Expansion valve replacement kit 10l** Heating circuit expansion vessel for use in large systems. Replaces standard boiler expansion vessel. Special clamping brackets. | 3319194 | • Only for ONE series range | • |
| **Self-cleaning water filter kit** | 3318876 | • | • |
| **Cartridge filter kit** | 3318877 | • | • |
| **Condensate neutraliser kit** (Only for boilers under 30 kW) | 3318893 | • | |
| **Circulation pump kit for acidic condensate** | 3318894 | • | |

| Gas conversion kits | Code | CONDENSING MODELS | | | CONVENTIONAL MODELS | |
|---|---|---|---|---|---|---|
| | | 18 | 25 | 35 | 24 | 28 |
| | | FF | FF | FF | CF | CF |
| LPG conversion kit for condensing boilers **GENUS PREMIUM EVO SOLAR FS 18 EU** | 3318778 | • | | | | |
| LPG conversion kit for condensing boilers **GENUS PREMIUM EVO IN 25 EU** **GENUS PREMIUM EVO IN SYSTEM 25 EU** **GENUS PREMIUM EVO EXT 25 EU** **GENUS PREMIUM SOLAR FS 25 EU** | 3318766 | | • | | | |
| LPG conversion kit for condensing boilers **CLAS PREMIUM EVO IN 25 EU** | 3318984 | | • | | | |
| LPG conversion kit for condensing boilers **GENUS PREMIUM EVO SOLAR FS 35 EU** | 3318846 | | | • | | |
| LPG conversion for conventional boilers **CLAS EVO 24 CF EU** **EGIS PLUS 24 CF EU** | 3318261 | | | | • | |
| LPG conversion for conventional boilers **CLAS EVO 28 CF EU** | 3318327 | | | | | • |

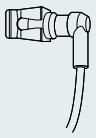
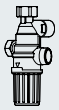
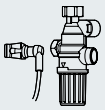
| Hydraulic accessories<br>Wall-mounted and outdoor boilers | Code | / Alteas ONE<br>/ Genus ONE<br>/ Clas ONE | / Genus ONE system<br>/ Clas ONE system | / Genus Premium EVO EXT EU<br>/ Egis Premium EVO EXT EU | / Cares Premium EU<br>/ Clas EVO CF<br>/ Egis Plus CF | / Clas B Premium EU |
|---|---|---|---|---|---|---|
| **Pre-installation kit (4 valves)** contains:<br>- 3/4" heating flow/return pipes and valves<br>- 1/2" domestic hot water flow/return pipes and valves<br>- ø18 gas connection<br>- 3/4" M gas valve | 3318228 | ● | | ● | ● | |
| **Pre-installation kit (2 valves)** contains:<br>- 3/4" heating flow/return pipes and valves<br>- 1/2" domestic hot water flow/return pipes and valves<br>- ø18 gas connection<br>- 3/4" M gas valve<br>- 1/2" domestic hot water valve | 3318224 | ● | | ● | ● | |
| **Site kit** contains:<br>- 3/4" heating flow/return pipes<br>- 1/2" domestic hot water flow/return pipes | 3318222 | ● | | ● | ● | |
| **Heating kit containing 2 valves** contains:<br>- 3/4" heating flow/return pipes and valves | 3318225 | ● | ● | ● | ● | |
| **Universal replacement kit** contains:<br>- 3/4" M flexible heating flow/return hoses<br>- 1/2" M flexible domestic hot water inlet/outlet hoses<br>- 3/4" M gas pipe<br>- 3/4" M gas valve<br>- 1/2" M domestic hot water valve | 3318227 | ● | ● | ● | ● | ● |
| **MULTI-BCH boiler side connection kit** contains:<br>- copper tubes and connections for heating systems<br>- copper tubes and connections for boiler-cylinder connections<br>- 4-litre domestic hot water expansion vessel<br>- hydraulic safety assembly | 3318629 | | ● | | | |
| **Cylinder connection kit MULTI** contains:<br>- copper tubes and connections for heating systems<br>- insulated flexible stainless steel hoses for boiler cylinder connection<br>- copper tubes and connections for domestic hot water system<br>- flexible domestic hot water hose to fill system<br>- 4-litre domestic hot water expansion vessel with bracket<br>- hydraulic safety assembly with integrated cold water valve<br>- discharge pipe and siphon<br>- temperature cylinder regulation knob on boiler<br>- standard cylinder probe<br><br>it is recommended to order together with 3318228 | 3318334 | ● | ● | | | |
| **Boiler with cylinder bar kit** contains:<br>- 3/4" M heating flow/return pipes and valves<br>- 1/2" M domestic hot water inlet/outlet pipes<br>- ø18 gas pipe and 3/4" M gas valve<br>- gaskets and hanger bracket | 3318434 | | | | | ● |
| **hydraulic kit with Pipes+4 valves and cylinder** contains:<br>- 3/4" M heating flow/return pipes and valves<br>- 1/2" M domestic hot water inlet/outlet pipes<br>- ø18 gas pipe and 3/4" M gas valve<br>- gaskets | 3318435 | | | | | ● |
| **G40 24 kW models black connection guard cover**<br>Dimensions: 400x315 mm | 3319067 | ●<br>no<br>Clas ONE | ●<br>no<br>Clas ONE | | | |
| **G40 30 - 35 kW models black connection guard cover**<br>Dimensions: 400x385 mm | 3319069 | ●<br>no<br>Clas ONE | ●<br>no<br>Clas ONE | | | |
| **Anti-freeze heating element kit (extends protection down to -20°C)**<br>extends anti-freeze protection in external/recessed models down -20 °C with boiler connected to mains electricity and gas. Includes thermostat, condensate siphon + heating element (condensate siphon, plate heat exchanger and DHW inlet). | 3318954 | | | ● | | |
| **Anti-freeze heating element kit**<br>extends protection down to -5°C with boilers which can be installed in partially protected locations and connected to the mains electricity and gas. Includes thermostat, condensate siphon + heating element (condensate siphon) | 3318949 | ● | ● | | | |

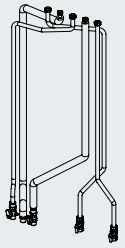



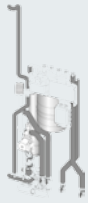

# Solar integration accessories

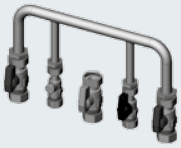
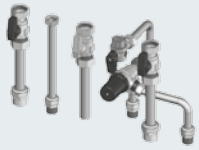
| Wall and external solar boiler management and integration accessories | Code | / Alteas ONE / Genus ONE / Clas ONE / Cares Premium EU | / Genus ONE system / Clas ONE system | / Clas B Premium EU | / Genus Premium EVO EXT EU / Egis Premium EVO EXT EU | / Egis Plus CF EU | |
|---|---|---|---|---|---|---|---|
| **Solar sensor**<br>For integration of mixed boilers with solar systems. | 3318983 | ● | | ● | ● | |  |
| **Solar sensor**<br>For integrating mixed boilers with solar systems (no Cares Premium) | 3318317 | ● (no Cares Premium) | | ● | ● | ● | |
| **Integrated thermostat-controlled mixer valve**<br>For integration of mixed boilers with natural circulation solar heating systems | 3318379 | ● | ● | ● | ● | ● |  |
| **Thermostat-controlled mixer valve and integrated solar sensor kit** for integrating mixed boilers with natural circulation solar systems recommended for power up to 28 kW (no Cares Premium) | 3318290 | ● Use in combination with 3318949 for installations in partially protected locations | ● Use in combination with 3318949 for installations in partially protected locations | ● | ● use in combination with 3318954 | ● |  |
| **Thermostat controlled mixer valve**<br>For the integration of System boilers with forced circulation solar heating systems, to be fitted at the cylinder outlet.<br>(maximum flow rate 30 l/min) | 3024085 | | ● | | | |  |
| **Universal cylinder solar sensor** | 3318962 | ● | ● | ● | ● | |  |
| **Solar collector sensor** | 3318564 | ● | ● | ● | ● | |  |

# Recessed accessories

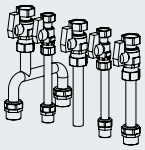
| Hydraulic accessories and recessed boiler installation | Code | / Kairos EVO IN | / Genus Premium EVO IN EU / Egis Premium EVO IN EU | / Genus Premium EVO IN system EU |
|---|---|---|---|---|
| **Kairos EVO IN - recessed units**<br>Pre-cut floor and walls for hydraulic and flue connections. No warping or infiltration. Contains installation template<br><br>Also compatible with recessed Genus Hybrid Flex IN NET system | 3318467 | • | | |
| **Kairos EVO IN - Recessed box top panel**<br>In pre-trimmed sheet metal for front discharge<br><br>Also compatible with recessed Genus Hybrid Flex IN NET system | 3318480 | • | | |
| **Kairos EVO IN - hydraulic kit**<br>for domestic hot water/heating connection if prearranged for solar only<br><br>If 3318928 not installed. | 3318477 | • | | |
| **Kairos EVO IN - Anti-freeze heating element kit**<br>to extend anti-freeze protection to -10 °C of the hydraulic connections | 3318479 | • | | |
| **Kairos EVO IN - solar EVO V2 recessed accessories integration** contains:<br>- solar hydraulic connections<br>- 1 zone direct heating hydraulic connections<br>- domestic hot water hydraulic connections<br>- solar pump unit<br>- solar expansion vessel<br>- mixer valve<br>- domestic hot water expansion vessel | 3318928 | • | | |
| **Recessed sheet metal unit**<br>Pre-cut floor and walls for hydraulic and flue connections. No warping or infiltration. Contains installation template | 3318397 | | • | • |
| **Recessed box top panel** in pre-cut sheet metal for front discharge | 3318400 | | • | • |
| **Kit containing 4 valves+system leak test** contains:<br>- 3/4" system shut-off valves ø18 m-f compression connection<br>- 3/4" gas valve ø18 m-f compression connection<br>- 1/2"domestic hot water valve ø14 m-f compression connection<br>- 1/2"domestic hot water outlet ø14 m-f compression connection<br>- system leak test pipe<br>(for system versions in heating-only configuration) | 3318185 | | • | • |
| **Motorised built-in solar kit**<br>for the integration of mixed instant recessed boilers with natural circulation solar systems.<br>contains:<br>- manual mixer valve<br>- hydraulic connections for installation inside a box below the boiler<br>- solar sensor<br><br>use in together with the anti-freeze heating element kit cod. 3318954 | 3318408 | | • | |

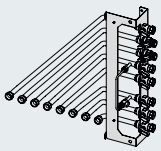
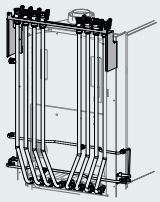
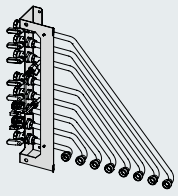
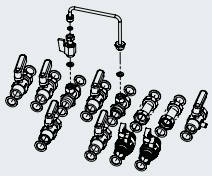
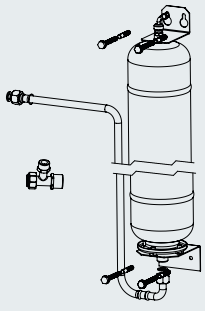


# Recessed accessories

| Recessed boiler installation and hydraulic accessories | Code | / Genus Premium EVO IN EU<br>/ Egis Premium EVO IN EU | / Genus Premium EVO IN system EU | |
|---|---|---|---|---|
| **2 valve kit (gas and cold water)** contains:<br>- 3/4” heating flow/return pipes<br>- 3/4” gas valve ø18 m-f compression connection<br>- 1/2” domestic hot water inlet valve ø14 m-f compression connection<br>- 1/2” domestic hot water outlet pipe<br>(can be used with system versions in heating-only configuration) | 3318186 | • | • |  |
| **2 valve kit (gas and cold water) - Tray connections**<br>(can be used with system versions in heating-only configuration) contains:<br>- 3/4” heating flow/return pipes<br>- 3/4” gas valve ø18 m-f compression connection<br>- 1/2” domestic hot water inlet valve ø14 m-f compression connection<br>- 1/2” domestic hot water inlet/outlet pipes<br>- gaskets | 3318406 | • | • |  |
| **System test kit** contains:<br>- system leak test pipe | 3318405 | • | • |  |
| **Dedicated Selecta In replacement kit (Condens) - Tec In**<br>(required for a recessed boiler from the new range or boiler has Selecta In, Selecta In Condens and Tec In connections) contains:<br>- heating flow/return connection adaptors<br>- gas connection transition fitting<br>- domestic hot water inlet pipe and transition fitting<br>- 1/2” domestic hot water outlet transition fitting | 3318404 | • | • |  |
| **Recessed EVO Cylinder connection kit** | 3318875 | | • |  |
| **Anti-freeze heating element kit**<br>extends anti-freeze protection to -20 °C with boiler connected to mains electricity. | 3318954 | • | • |  |

# Genus Premium Solar FS accessories

| Recessed boiler installation and hydraulic accessories - Genus Premium EVO Solar FS EU | Code | / Genus Premium Solar EVO FS EU | |
|---|---|---|---|
| **RH hydraulic installation kit** contains:<br>- 3/4” heating flow/return pipes and valves<br>- 3/4” gas pipe and valve ø18 m-f compression connection<br>- 3/4” domestic hot water inlet/outlet pipes and valves ø18 m-f compression connection<br>- 3/4” domestic hot water recirculation pipe and valve ø18 m-f compression connection<br>- 3/8” pipe and valves for system filling<br><br>For RH hydraulic connection | 3318579 | • |  |
| **Hydraulic kit for top installation** contains:<br>- 3/4” system shut-off valves and valves ø18 m-f compression connection<br>- 3/4” gas pipe and valve ø18 m-f compression connection<br>- 3/4” domestic hot water inlet/outlet pipes and valves ø18 m-f compression connection<br>- 3/4” domestic hot water recirculation pipe and valve ø18 m-f compression connection<br>- 3/8” pipe and valves for system filling<br>- installation template<br><br>For top hydraulic connection | 3318534 | • |  |
| **Hydraulic kit for LH installation** contains:<br>- 3/4” heating flow/return pipes and valves<br>- 3/4” gas pipe and valve ø18 m-f compression connection<br>- 3/4” domestic hot water inlet/outlet pipes and valves ø18 m-f compression connection<br>- 3/4” domestic hot water recirculation pipe and valve ø18 m-f compression connection<br>- 3/8” pipe and valves for system filling<br><br>For LH hydraulic connection | 3318584 | • |  |
| **Kit only valves** | 3318587 | • |  |
| **8 litre domestic hot water expansion vessel kit** | 3318595 | • |  |

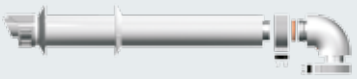
# Exhaust fumes discharge systems

## Flue gas exhaust systems for condensing boilers

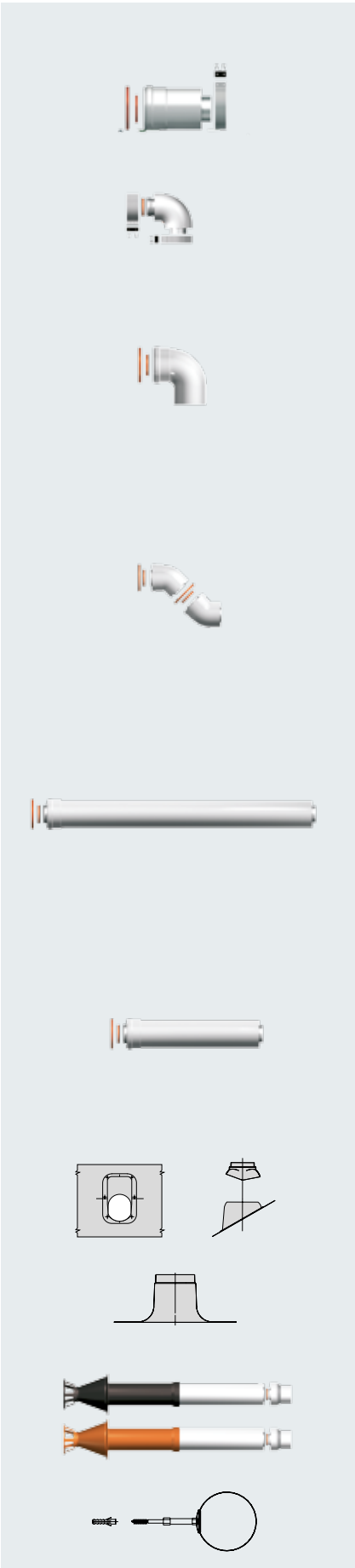
Installation in compliance with norms requires the use of the original piping. UNI 7129:08 Part 3 **Combustion air intake ducts:** an element or unit consisting of one or more walls used to convey combustion air directly from outside, or from the air intake duct, to the device. For type C gas devices (NOT type C6), it is an integral part of the device and is supplied by the manufacturer of the device.
**Flue gas exhaust conduit:** an element or unit consisting of one or more walls which connect the flue gas outlet from a device to the flue ducting / flue pipe / chimney duct / exhaust end piece, operating under positive pressure compared to the environment. For type C gas devices (NOT type C6), it is a type B equipped with a fan in the combustion circuit. It is an integral part of the device and is supplied by the manufacturer of the device.
**Exhaust conduits for type C6 devices - Requirements:** The exhaust conduits must conform to EN1856-2 or EN 1856-1 (for metals) or EN 14471 (for plastics).
The use of conduits without EC markings is not permitted.

### 60/100 coaxial systems

| Complete kits | Code |
|---|---|
| **HORIZONTAL STARTING POINT COAXIAL L 1000 CONDENS EXHAUST KIT white**<br>Ø60/100 coaxial L1000 mm kit in AL/PPS with 90° elbow and wall exhaust end piece.<br>Clamps, gaskets, fixing screws and EPDM wall cover plate.<br>Required for the installation of Ø60/100 horizontal starting point coaxial systems with with elbow and wall mounted flue gas exhaust. | 3318073 |
| **HORIZONTAL STARTING POINT COAXIAL L1000 CONDENS EXHAUST KIT grey**<br>Ø60/100 coaxial L1000 mm kit in AL/PPS with 90° elbow and wall exhaust end piece.<br>Clamps, gaskets, fixing screws and EPDM wall cover plate.<br>Required for the installation of Ø60/100 horizontal starting point coaxial systems with with elbow and wall mounted flue gas exhaust. | 3319163 |
| **COAXIAL L1000 CONDENS EXHAUST KIT with VERTICAL STARTING POINT white**<br>Ø60/100 coaxial L1000 mm kit in AL/PPS with wall exhaust end piece.<br>Clamps, gaskets, fixing screws and EPDM wall cover plate.<br>Required for installation of vertical starting point Ø60/100 coaxial system without elbow and wall mounted flue gas exhaust. | 3318074 |
| **VERTICAL STARTING POINT COAXIAL L1000 CONDENS EXHAUST KIT grey**<br>Ø60/100 coaxial L1000 mm kit in AL/PPS with wall exhaust end piece.<br>Clamps, gaskets, fixing screws and EPDM wall cover plate.<br>Required for installation of vertical starting point Ø60/100 coaxial system without elbow and wall mounted flue gas exhaust. | 3319167 |
| **60/100 C42 COAXIAL CONDENS EXHAUST KIT white**<br>Ø60/100 coaxial L750 mm kit in AL/PPS with C42 flue ducting<br>Boiler starting point Ø60/100 90° coaxial elbow in AL/PPS<br>Clamps, gaskets and fixing screws. Wall cover flange and with rawlplugs. | 3318097 |



| Parts | Code |
|---|---|
| **VERTICAL STARTING POINT COAXIAL CONDENS EXHAUST KIT**<br>Vertical starting point Ø60/100 - Ø 80/125 coaxial kit in AL/PPS with clamp, gasket and fixing screws.<br>Required for installation of vertical starting point Ø60/100 coaxial systems without elbow and roof mounted flue gas exhaust. | 3318079 |
| **HORIZONTAL STARTING POINT COAXIAL CONDENS EXHAUST KIT**<br>Horizontal starting point Ø60/100 coaxial kit in AL/PPS with clamp, gasket and fixing screws. | 3318895 |
| **M/F 90° COAXIAL ELBOW CONDENS white**<br>Ø60/100 90° coaxial elbow in AL/PPS | 3318075 |
| **M/F 90° COAXIAL ELBOW CONDENS grey**<br>Ø60/100 90° coaxial elbow in AL/PPS | 3319166 |
| **M/F 45° COAXIAL ELBOW CONDENS white**<br>Ø60/100 45° coaxial elbows in AL/PPS | 3318076<br>2 pc package |
| **M/F 45° COAXIAL ELBOW CONDENS grey**<br>Ø60/100 45° coaxial elbows in AL/PPS | 3319168<br>2 pc package |
| **M/F COAXIAL EXTENSION L 1000 CONDENS white**<br>Ø60/100 M/F coaxial pipe L1000 mm in AL/PPS with centring spring. | 3318077 |
| **M/F COAXIAL EXTENSION L 1000 CONDENS grey**<br>Ø60/100 M/F coaxial pipe L1000 mm in AL/PPS with centring spring. | 3319164 |
| **M/F COAXIAL EXTENSION L 500 CONDENS white**<br>Ø60/100 M/F coaxial pipe L 500 mm in AL/PPS with centring spring. | 3318078 |
| **M/F COAXIAL EXTENSION L 500 CONDENS grey**<br>Ø60/100 M/F coaxial pipe L 500 mm in AL/PPS with centring spring. | 3319165 |
| **BLACK SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent with 12° to 40° slant. | 3318009 |
| **RED SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 red metal roof tile vent with 12° to 40° slant. | 3318010 |
| **BLACK FLAT ROOF TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent. | 3318011 |
| **BLACK ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 black roof kit in AL/PPS with Ø60/100 conical bushing. | 3318080 |
| **RED ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 red roof kit in AL/PPS with Ø60/100 conical bushing. | 3318081 |
| **WALL BRACKET KIT**<br>Ø80 to Ø125 adjustable wall bracket with anchor plugs | 3318015<br>3 pc package |

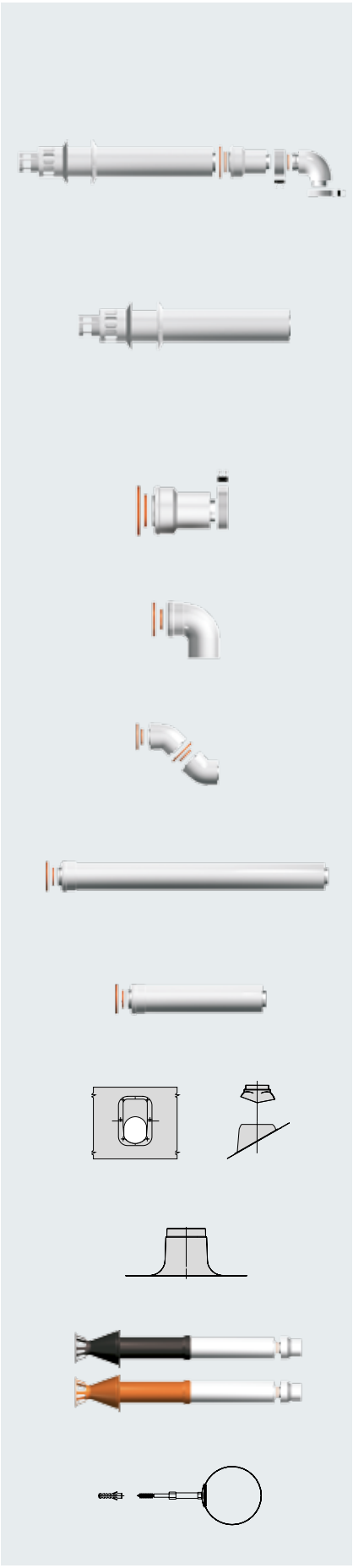


# Exhaust fumes discharge systems

## 80/125 coaxial systems

| Complete kits | Code |
|---|---|
| **HORIZONTAL STARTING POINT COAXIAL CONDENS EXHAUST KIT L1000**<br>Horizontal starting point Ø80/125 coaxial L 1000 kit in AL/PPS with exhaust end piece, Ø60/100 - Ø80/125 transition fitting and Ø60/100 90° elbow<br>Clamps, gaskets, fixing screws and EPDM wall cover plate.<br>**Required for installation of Ø80/125 coaxial system with horizontal starting point with elbow and wall mounted flue gas exhaust.** | 3318090 |
| HORIZONTAL STARTING POINT COAXIAL L1000 CONDENS EXHAUST<br>Ø80/125 coaxial L1000 mm kit in AL/PPS, with exhaust end piece and EPDM wall cover plate. | 3318188 |

| Parts | Code |
|---|---|
| **VERTICAL STARTING POINT COAXIAL CONDENS EXHAUST KIT**<br>Vertical starting point Ø 60/100 - Ø 80/125 coaxial exhaust kit in AL/PPS with clamp, gasket and fixing screws.<br>**Required for installation of vertical starting point Ø80/125 coaxial systems without elbow and roof mounted flue gas exhaust.** | 3318095 |
| **M/F 90°CONDENS COAXIAL ELBOW**<br>Ø80/125 M/F 90° coaxial elbow in AL/PPS | 3318091 |
| **M/F 45° CONDENS COAXIAL ELBOW**<br>Ø80/125 M/F 45° coaxial elbow in PPS, Ø 125. | 3318092<br>2 pc package |
| **CONDENS COAXIAL EXTENSION M/F L 1000**<br>Ø 80/125 M/F coaxial pipe L 1000 mm in AL/PPS with centring spring. | 3318093 |
| **M/F CONDENS COAXIAL EXTENSION L 500**<br>Ø 80/125 M/F coaxial pipe L 500 mm in AL/PPS with centring spring. | 3318094 |
| **BLACK SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent with 12° to 40° slant. | 3318009 |
| **RED SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 red metal roof tile vent with 12° to 40° slant. | 3318010 |
| **FLAT BLACK TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent. | 3318011 |
| **BLACK ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 black roof kit in AL/PPS with Ø60/100 conical bushing. | 3318080 |
| **RED ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 red roof kit in AL/PPS with Ø60/100 conical bushing. | 3318081 |
| **WALL BRACKET KIT**<br>Ø80 to Ø125 adjustable wall bracket with anchor plugs | 3318015<br>3 pc package |

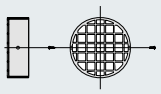
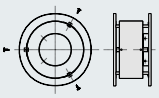
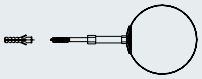
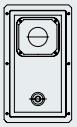


## 80-80 split systems

| Parts | Code |
|---|---|
| **CONSENS SPLIT EXHAUST white**<br>Boiler starting point Ø60/100 - Ø80 transition fitting in PPS with clamp, gasket and fixing screws.<br>n°2 Ø80 90° elbows in PPS<br>n°2 Ø80 M/F extensions L 1000 mm in PPS<br>Intake end piece.<br>Air intake bracket. | 3318370 |
| **CONSENS SPLIT EXHAUST grey**<br>Boiler starting point Ø60/100 - Ø80 transition fitting in PPS with clamp, gasket and fixing screws.<br>n°2 Ø80 90° elbows in PPS<br>n°2 Ø80 M/F extensions L 1000 mm in PPS<br>Intake end piece.<br>Air intake bracket. | 3319161 |
| **TRANSITION FITTING FOR SPLIT CONDENS SYSTEMS white**<br>Boiler starting point Ø60/100 - Ø80 transition fitting in PPS with clamp, gasket and fixing screws. Air intake bracket.<br>Necessary for the installation of Ø80 split systems if code 3318370 is not used. | 3318369 |
| **TRANSITION FITTING FOR SPLIT CONDENS SYSTEMS, grey**<br>Boiler starting point Ø60/100 - Ø80 transition fitting in PPS with clamp, gasket and fixing screws. Air intake bracket.<br>Necessary for the installation of Ø80 split systems if code 3318370 is not used. | 3319159 |
| **Ø80 M/F 90° CONDENS COAXIAL ELBOW, white**<br>Ø80 M/F 90° elbow in PPS, wide radius. | 3318084 |
| **Ø80 M/F 90° CONDENS COAXIAL ELBOW, grey**<br>Ø80 M/F 90° elbow in PPS, wide radius. | 3319162 |
| **Ø80 M/F 45°CONDENS ELBOW**<br>Ø80 M/F 45° elbow in PPS. | 3318085<br>2 pc package |
| **Ø80 CONDENS EXTENSION L 1000**<br>Ø80 M/F pipe L 1000 mm in PPS. | 3318086 |
| **Ø80 CONDENS EXTENSION L 500**<br>Ø 80 M/F pipe L 500 mm in PPS. | 3318087 |
| **80/125-80 TRANSITION FITTING FOR ROOF EXHAUST**<br>80/125 - 80 transition fitting in AL/PPS for roof exhaust end piece. | 3318088 |
| **80/125-80 + 80 TRANSITION FITTING FOR ROOF EXHAUST**<br>Ø80/125 - Ø80 + Ø80 transition fitting in AL/PPS for roof-fitted exhaust end piece. | 3318089 |
| **BLACK SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent with 12° to 40° slant. | 3318009 |
| **RED SLANTED ROOF TILE VENT FOR DUCT**<br>Ø125 red metal roof tile vent with 12° to 40° slant. | 3318010 |
| **BLACK FLAT ROOF TILE VENT FOR DUCT**<br>Ø125 black metal roof tile vent. | 3318011 |
| **BLACK ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 black roof kit in AL/PPS with Ø60/100 conical bushing. | 3318080 |
| **RED ROOF CONDENS EXHAUST END PIECE**<br>Ø80/125 red roof kit in AL/PPS with Ø60/100 conical bushing. | 3318081 |

# Exhaust fumes discharge systems

## Ø80 ducted split pipe systems

| Parts | Code | |
|---|---|---|
| **INTAKE END PIECE**<br>Ø80 horizontal intake end piece in plastic.<br>Fixing screws. | 3318028 |  |
| **Ø80 STAINLESS STEEL DISCHARGE END PIECE**<br>Ø80 horizontal stainless steel discharge end piece<br>Fixing screws. | 3318027 |  |
| **Ø80 BLACK VERTICAL DISCHARGE END PIECE**<br>Ø80 roof end piece painted black<br>Fixing screws. | 3318031 |  |
| **WALL BRACKET KIT**<br>Ø80 to Ø125 adjustable wall bracket with anchor plugs | 3318015<br>3 pc package |  |
| **Ø80 WALL COVER PLATE**<br>Ø80 EPDM wall cover plate. | 3318032<br>2 pc package |  |
| **INSPECTION BOX KIT**<br>Flue ducting inspection box with gaskets<br>and rawlplugs for wall installation. | 3318043 |  |
| **Ø80 ELBOW KIT WITH BRACK FOR CONDENS FLUE DUCTING**<br>Ø80 M/F 90° elbow in PPS.<br>Ducting foot with rawlplugs.<br>Ø80/60 transition fitting for Ø60 flue ducting | 3318098 |  |
| **Ø80 TRANSITION FITTING FOR CONDENS FLEXIBLE HOSE**<br>Ø80 transition fitting for starting point with flexible hose.<br>Ø80 transition fitting for flue gas exhaust closure with flexible hose. | 3318099 |  |
| **Ø80 12.5 m CONDENS FLEXIBLE HOSE**<br>Ø80 12.5 m flexible hose in PPS with smooth inner wall.<br>no.1 transition fitting for starting point with flexible hose.<br>no.1 transition fitting for flue gas exhaust closure with flexible hose.<br>Radial centring springs. | 3318100 |  |
| **Ø80 radial centring spring**<br>Centring spring for Ø80 pipe for flue ducting in PPS. | 3318101<br>5 pc package |  |
| **CONDENS ROOF END PIECE**<br>Ø80 roof end piece in PPS. | 3318103 |  |

## Ø60 ducted split pipe systems

| Parts | Code | |
|---|---|---|
| **Ø60 90° ELBOW KIT WITH BRACKET FOR CONDENS FLUE DUCTING**<br>Ø60 M/F 90° elbow in PPS.<br>Ducting foot with rawlplugs. | 3318104 |  |
| **Ø60 45° ELBOW KIT**<br>Ø60 M/F 45° elbow in PPS. | 3318106<br>2 pc package |  |
| **Ø60 CONDENS EXTENSION L 1000**<br>Ø60 M/F pipe L 1000 mm in PPS. | 3318105 |  |
| **Ø60 STAINLESS STEEL PIPE-LOCK SPRING**<br>Ø60 stainless steel spring for centring pipe on flue ducting. | 3318108 |  |
| **Ø60 STAINLESS STEEL DISCHARGE END PIECE**<br>Ø60 horizontal stainless steel discharge end piece<br>Fixing screws. | 3318109 |  |
| **Ø80/60 TRANSITION FITTING FOR SPLIT CONDENSATION SYSTEM** | 3318202 |  |
| **Ø60 FLEXIBLE CONDENSATION HOSE**<br>Length 20 m | 3318294 |  |
| **Ø60 CONDENSATION INTAKE END PIECE IN PLASTIC** | 3318347 |  |

# Exhaust fumes discharge systems

## Ø50 ducted split pipe systems

| Parts | Code |
|---|---|
| **Ø80/50 TRANSITION FITTING FOR SPLIT CONDENSATION SYSTEM** | 3319139 |
| **Ø50 FLEXIBLE CONDENSATION HOSE**<br>Length 12.5 m | 3319140 |
| **Ø50 EXTENSION L 0.5 m**<br>Ø50 M/F pipe L 500 mm in PPS. | 3319142 |
| **Ø50 EXTENSION L 1 m**<br>Ø50 M/F pipe L 1000 mm in PPS. | 3319143 |
| **Ø50 EXTENSION L 2 m**<br>Ø50 M/F pipe L 2000 mm in PPS. | 3319144 |
| **Ø50 STAINLESS STEEL DISCHARGE END PIECE**<br>Ø50 horizontal stainless steel discharge end piece<br>Fixing screws. | 3319145 |
| **Ø80 ELBOW - Ø50 FLEX TRANSITION FITTING** | 3319190 |
| **Ø80 VERT - Ø50 FLEX TRANSITION FITTING** | 3319191 |
| **Ø50 FLEX ROOF FLUE GAS EXHAUST END PIECE** | 3319192 |









## Components specific to the range

| Recessed condensing boiler | Code |
|---|---|
| SPLIT FLUE GAS EXHAUST KIT FOR RECESSED CONDENS BOILERS<br>no. 1 Ø60/80 transition fitting for split systems in PPS<br>with Ø100 for boiler starting point.<br>no. 2 Ø80 stub pipes with coupling seal.<br>no. 1 intake end piece.<br>no. 1 clamp with gasket and fixing screws.<br>no. 1 Ø80 90° elbow in PPS, wide radius for air intake.<br>no. 1 Ø80 90° elblow in PPS, tight radius for flue gas exhaust. | 3318133 |
| TRANSITION CONNECTION KIT FOR NEW RANGE OF RECESSED BOILERS<br>To create a vertical starting point using a boiler built into the recessed unit used for the previous range (3318157 or 3318189). | 3318446 |

| Genus Premium Solar EVO FS | Code |
|---|---|
| SPLIT FLUE GAS/AIR INTAKE STARTING POINT KIT<br>GENUS PREMIUM SOLAR EVO FS<br>no. 1 concentric air intake closure ring<br>no. 1 60/80 air intake transition fitting | 3123574 |
| 80/125 - 60/100 TRANSITION FITTING | 3318200 |