1:10

20% H_2 HYDROGEN READY

Antares

High efficiency
CONDENSING BOILERS

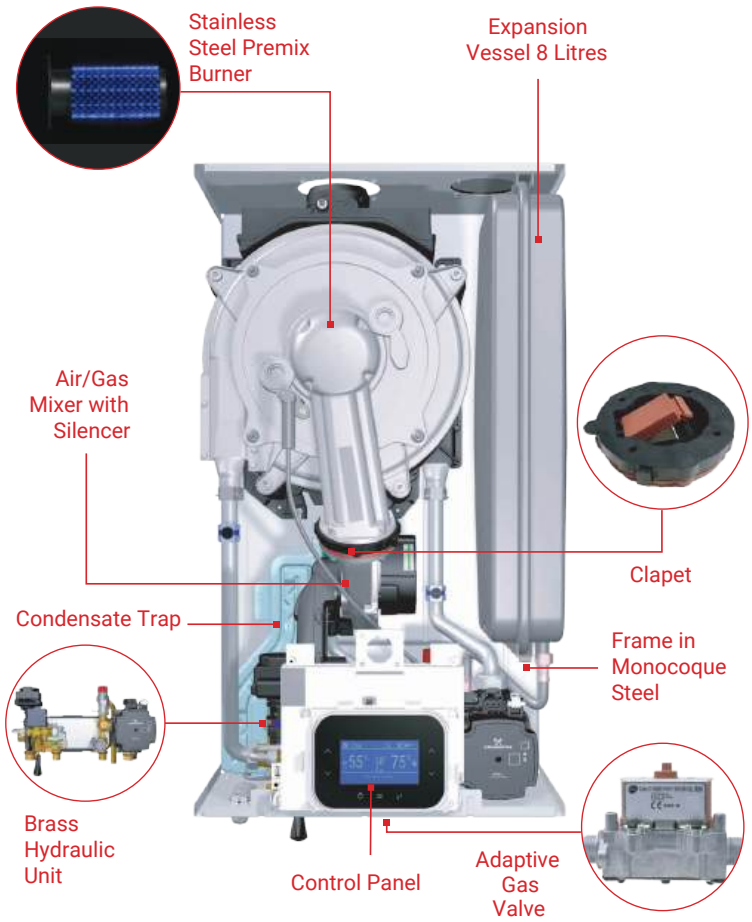
ANTARES 25 C
ANTARES 30 C
ANTARES PLUS 35C

BIASI
COMFORT MADE IN ITALY

The Comfort Solution

ANTARES
High-efficiency condensing boilers | **2025**

SMART **ADVANCED** **QUIET**
Top of the Range



INNOVATIVE DESIGN

The Antares condensing boiler, unlike traditional boilers, recovers heat by condensing the water vapour contained in the flue gases; this means, for the same amount of heat produced, it consumes less gas and the fumes also contain less environmentally hazardous substances. The materials used and the control systems with which it is equipped offer you safety, high levels of comfort and energy savings, so that you can enjoy the advantages of independent heating.

Antares TOP OF THE RANGE

- UP TO 1:10 MODULATION
- 25 kW - 30 kW - 35 kW
- DHW / CH
- UPTO 20L/MIN
- 8L EXPANSION VESSEL
- GRUNDFOS Erp PUMP
- GAS ADAPTIVE NH / LPG / HYDROGEN
- MULTIFUNCTIONAL TOUCH DISPLAY
- ENERGY CLASS A

NOx 6 CLASS | WI-FI READY | PLASTIC FREE | BIASI APP

Antares

Available in **combination versions** for heating and DHW production with a complete heat output range – **25, 30 and 35 kW** models – all with very compact dimensions.

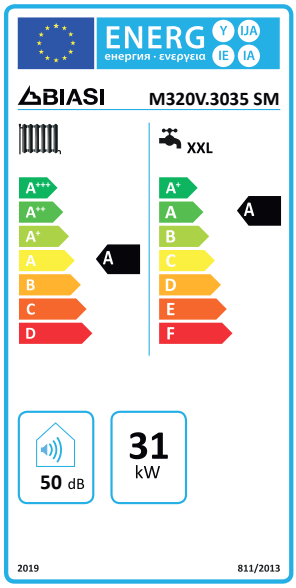
High performance

Antares is an energy class A and energy class A+, in other words the highest energy efficiency level achievable with a boiler.

Easy to use thanks to the digital control panel with a large display, designed to communicate with the user in an easy and convenient manner.

Dimensions

700 x 400 x 300 mm



BIASI

The most efficient boiler on the market thanks to 1:10 modulation

One model suitable for all situations

even the most extreme where very low power is required for space heating and at the same time a large quantity of hot water

The modulation of a boiler is the ability to generate a more or less intense burner flame. The modulation ratio therefore indicates the ratio between the maximum and minimum power that can be developed by the burner. In the case of Antares, the maximum power is more than 10 times the minimum. Thanks to its high modulation range (1/10), Antares is a versatile boiler that guarantees:

- High energy efficiency
- High domestic hot water output at 20 L/min @ 25° temperature differential

  In Addition, a low continuous power output results in quiet operation and a longer boiler life.

Hydrogen Ready

For an ongoing commitment to the environment

Among the alternatives to traditional fuels, the use of hydrogen emerges as a promising solution; the combustion of hydrogen can only release water vapour into the atmosphere and minimal quantities of nitrogen oxides: a great advantage from an ecological point of view. In addition, existing infrastructure such as the methane transport and distribution network in Italy can already transport mixtures of methane and hydrogen at 20% by volume. Installing a Hydrogen Ready 20% boiler means preparing for a future less dependent on methane.

There are two advantages for consumers who choose a Hydrogen Ready 20% boiler:

- Investing in an appliance that can have a life of more than 20 years with technology that is ready for future developments in the industry without replacing the generator.
- Invest in a technologically advanced appliance in line with the most advanced solutions for sustainable energy management.

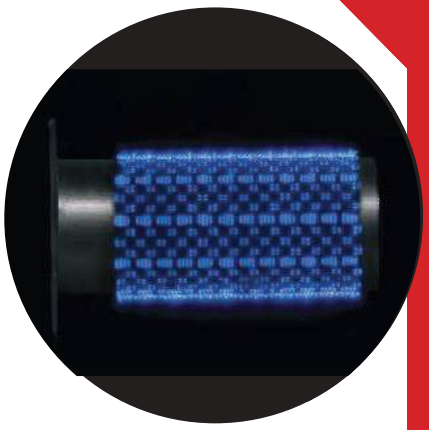
Adaptive Gas Technology

less consumption,
more efficiency,
less emissions

The innovative Adaptive Gas technology, with which Antares is equipped, allows for completely autonomous adaptation of boilers to different types and qualities of gas. Addition to detecting the flame, the electrode also detects the characteristics of the gas and automatically adapts the parameters of combustion to maintain the highest level of efficiency, resulting in reduced consumption and emissions compared to traditional control systems. The Adaptive Gas system makes the boiler ready to operate with any type of gas without changing any hardware.

Attention to detail

Burner

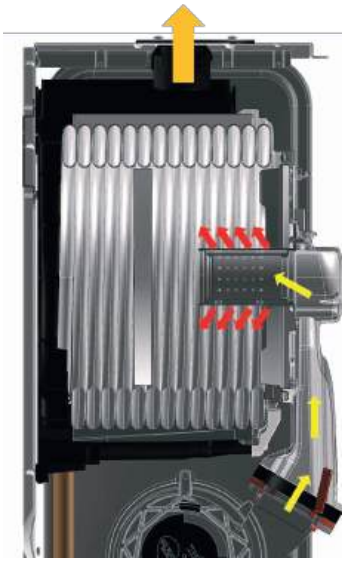


Stainless steel premix burner with high corrosion resistance, continuous operation capability at high temperatures, and considerable specific power. Particularly suitable for working with different gas mixtures, including hydrogen-methane, and ideal to coupling with electronically controlled combustion systems.

Clapet

ANTARES is equipped as standard with a Clapet non-return valve for simplified connection to pressurised collective flue systems according to UNI 7129.

When the boiler is running, the fan head raises the clapper allowing the air/gas mixture to be sent to the burner.
When the boilers are switched off, the clapet closes to prevent any smoke discharges from boilers installed in the same chimney from entering the combustion chamber.



A Plastic-FREE production for a more sustainable environment

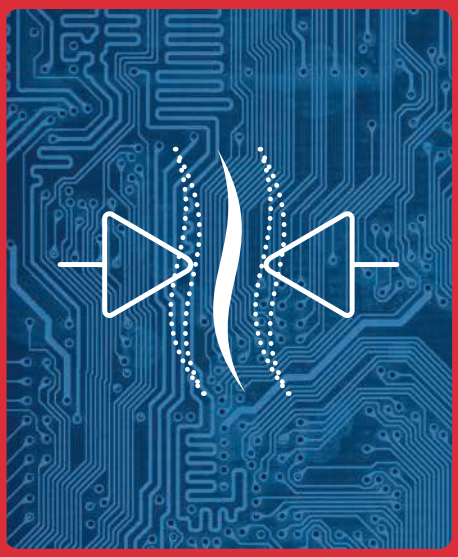
A key element that has guided the entire design phase of the new Antares boilers have strong focus on sustainability and recycling. This is why we have used components with a higher recyclable rate, eliminating the use of plastic as much as possible.

The plastic unit, for example, was replaced with the brass unit, a material that is completely recyclable.

The boiler packaging is made of cardboard and no longer of polystyrene.

~~100% polystyrene~~ cardboard packaging

~~Brass~~ plastic hydraulic unit



Electronic control of gas and air supply

Main features / Gas-Adaptive

- Automatic gas regulation
- Adaptation to changes in gas quality
- Clean combustion
- One single model suitable for natural gas and LPG, allowing for plant optimisation

In traditional boilers, the combustion values are measured and regulated only during servicing. The composition of the mains gas supply is not always constant, and can create operational inefficiencies in boilers without combustion regulation devices, compromising their reliability, savings and emissions quality.
Thanks to the **eGarc Combustion Solution**, the new condensing boilers **control the combustion electronically**, which allows them to best manage the **gas and air supply** at any time, automatically adapting the CO_2 level.

Control panel

- Winter/Summer/Off selector
- Heating temperature regulator
- DHW temperature regulator
- Digital pressure reading
- Screen display of DHW and heating temperature
- Display of fault diagnostics, lockout conditions and fault log
- Display of annual servicing expiry
- DHW pre-heating enablement

The display works in the following modes:

1. **INFO**
   (Info mode displays the following information):
   - DHW/heating temperatures
   - Flue gas temperatures
   - DHW flow rate
   - Fan speed
   - Months remaining until service
   - Pump modulation percentages
   - Outdoor temperature (with connected outdoor probe)

2. **PROGRAMMING**
   (the programming mode allows you to modify the boiler parameters):
   - BOILER PARAMETERS
     Modification of boiler parameters
   - CHIMNEY SWEEP
     Possibility to set 4 levels of boiler operation for combustion checks
   - CALIBRATION
     Automatic boiler calibration
   - HEATING CIRCUIT DEAERATION
     Facilitation for deaeration of the system in the installation phase
   - HISTORY
     List of errors recorded by the boiler during operation
   - Transfer of combustion parameters to spare board without need for recalibration
   - K value (with external probe connected)

Technical Data

Technical data		Antares		
		25 C	30 C	35 C
Nominal heating/DHW heat input	kW	21.0 / 26.0	26.0 / 31.0	31.0 / 34.9
Minimum heat input for heating/DHW	kW	2.6 / 2.6	3.5 / 3.5	3.5 / 3.5
Maximum usable heating/DHW power 60°/80°C *	kW	20.7 / 25.6	25.7 / 30.7	30.7 / 34.4
Minimum usable heating/DHW power 60°/80°C *	kW	2.5 / 2.5	3.3 / 3.3	3.3 / 3.3
Maximum usable heating/DHW power 30°/50°C **	kW	22.8 / 28.2	28.2 / 33.7	33.7 / 37.9
Minimum usable heating/DHW power 30°/50°C **	kW	2.7 / 2.7	3.7 / 3.7	3.7 / 3.7
Quantity of condensate at Q.nom. 30°/50°C (in heating mode) **	l/h	4.2	5.0	5.6
Quantity of condensate at Q.nom. 30°/50°C (in heating mode) **	l/h	0.5	0.6	0.6
Condensate pH		4.0	4.0	4.0
Nom. efficiency 60°/80°C *	%	98.5	98.8	98.9
Min. efficiency 60°/80°C *	%	94.7	95.1	95.1
Nom. efficiency 30°/50°C **	%	108.7	108.8	108.6
Min. efficiency 30°/50°C **	%	105.3	105.9	105.9
Efficiency at 30 % load **	%	109.9	109.8	109.8
Energy efficiency ηs	%	94	94	94
Thermal losses at the flue with burner in operation	Pf (%)	1.3	1.0	0.9
Thermal losses at the flue with burner turned off ΔT 50°C	Pfbs (%)	0.2	0.2	0.2
Thermal losses to the environment through the casing with the burner in operation	Pd (%)	0.7	0.9	0.9
NOx class	no.	6	6	6
Weighted NOx [Hs] ***	mg/kWh	42	35	32
Minimum/maximum heating temperature ****	°C	25 / 85	25 / 85	25 / 85
Minimum/maximum heating pressure	bar	0.3 / 3.0	0.3 / 3.0	0.3 / 3.0
Available heating head (at 1000 l/h)	mbar	350	330	330
Expansion tank capacity (total/usable)	l	8	8	8
Minimum/maximum DHW temperature	°C	30 / 60	30 / 60	30 / 60
Minimum/maximum DHW pressure	bar	0.5 / 10.0	0.5 / 10.0	0.5 / 10.0
Maximum flow rate (Δt = 25 K) / (Δt = 35 K)	l/min	15.4 / 10.7	18.4 / 12.9	20.6 / 14.4
Specific DHW flow (Δt = 30 K) *****	l/min	12.9	15.4	17.2
Voltage / power draw at nominal heat input	V~/ W	230 / 94	230 / 98	230 / 110
Power draw at minimum heat input	W	54	56	56
Power draw in stand-by	W	4	4	4
Ingress protection rating	no.	IPX5D	IPX5D	IPX5D
Minimum/maximum flue gas temperature#	°C	41 / 80	41 / 82	41 / 84
Minimum/Maximum flue gas mass flow rate #	kg/s	0.0013 / 0.0120	0.0017 / 0.0144	0.0017 / 0.0162
Minimum/maximum air mass flow rate #	kg/s	0.0012 / 0.0115	0.0016 / 0.0139	0.0016 / 0.0156
Max. length of coaxial flue outlet (Ø 60/100 mm / Ø 80/125 mm)	m	10 / 12	10 / 12	10 / 12
Max length of twin flue exhaust (Ø 80+80 mm)	m	40	40	40
Height x Width x Depth	mm	700 x 400 x 300	700 x 400 x 300	700 x 400 x 300
Weight	kg	31.5	36	36
Water contents of the boiler	l	2.0	2.5	2.5

* With return water temperatures that do not allow condensation. ** With return water temperatures that allow condensation.
*** With coaxial flue outlet 60/100 L 0.9 m and G20 natural gas. **** At minimum usable power. ***** With reference to EN 625.
# Values relate to tests with 80 mm 1 + 1 twin flue and G20 natural gas.

Cod. 4823.0755.00 - Depliant Antares EN

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