

Condensing boilers for outdoor installation

For heating and domestic
hot water production



Caldaria[®] *Condensing+*

- Outdoor installation
- Modular system
- Management in cascade



Robur Caldaria Condensing+

Efficient, safe and flexible

A complete range of condensing boilers for outdoor installation.

- High efficiency rating and reduction of energy consumption (ErP Class: A).
- Wall-hung, suitable for outdoor installation.
- Easy to install: boilers are equipped with high pressure water pump, expansion tank, safety valve and pressure gauge.
- Safety valve outlet and condensate drain outlet, ducted separately.
- High pressure pumps for systems with heat exchanger and/or water/glycol mix.

Ideal in locations with fire prevention constraints

- No fire prevention paperwork is required.
- Ideal in textile industries, carpenters, paper mills, body shops and car repairs, workshops, public and commercial premises, gyms and swimming pools, churches and oratories, exhibition halls and conferences centers ... and in all those places where installation of gas heaters is not allowed.



UP TO -25°C
EXTERNAL
TEMPERATURE





Easy installation

Outdoor wall hung installation, no occupation of technical rooms or ground space.



-25° C operation

Down to -25° C outdoor temperature operation (equipped with antifreeze system).



Totally modulating

A range of 3 units with different power; single unit power modulation 1:9 (1:18 for 100.2).



Modular and cascade

Can be managed in cascade, up to 8 boilers. Maximum system power up to 800 kW.



Domestic Hot Water

Management of a 3-way DHW diverting valve and DHW buffer tank probe. Centralized management of secondary circuit, DHW (through 3-way valve or dedicated delivery) and DHW recirculation circuits.



Multiple control choice

Manageable with single remote control, cascade control or via Modbus.

Wide pipe section heat exchanger

Caldaria Condensing+ boilers feature high quality heat exchanger.

- Single circuit: no risk of overheating.
- Wide pipe section: diameter is 28mm, no risk of clogging.
- Stainless steel made: reliable and long lasting.



Caldaria® 35 Condensing+



Condensing 36,2 kW boiler.
Outdoor installation.
Powered by natural gas or LPG.

Seasonal space heating energy efficiency class (ErP)		A
Heat input nominal / minimum	kW	34,0/4,1
Effective power nominal / minimum 60/80°C	kW	33,4/3,9
Effective power nominal / minimum 30/50°C	kW	36,2/4,4
Operating point 60/80°C efficiency nominal / minimum	%	98,1/107,3
Operating point 30/50°C efficiency nominal / minimum	%	106,4/108,6
Gas consumption natural gas / LPG	m ³ /h-kg/h	3,60/2,68
Power supply		230 V - 50 Hz single phase
Electrical power absorption	kW	0,130
Water fitting / Gas connection	"M	3/4 - 3/4
Flue gas exhaust	mm	80
Expansion tank capacity	l	8
Size width / depth / height	mm	420/370/787
Weight in operation	kg	44

Caldaria® 55.1 Condensing+



Condensing 53,4 kW boiler.
Outdoor installation.
Powered by natural gas or LPG.

Seasonal space heating energy efficiency class (ErP)		A
Heat input nominal / minimum	kW	50,0/5,0
Effective power nominal / minimum 60/80°C	kW	49,2/5,0
Effective power nominal / minimum 30/50°C	kW	53,4/5,4
Operating point 60/80°C efficiency nominal / minimum	%	98,4/106,8
Operating point 30/50°C efficiency nominal / minimum	%	106,8/108,8
Gas consumption natural gas / LPG	m ³ /h-kg/h	5,29/3,88
Power supply		230 V - 50 Hz monofase
Electrical power absorption	kW	0,240
Water fitting / Gas connection	"M	1 ^{1/4} - 3/4
Flue gas exhaust	mm	80
Expansion tank capacity	l	8
Size width / depth / height	mm	558/515/903
Weight in operation	kg	56

Caldaria® 100.2 Condensing+



Condensing 106,6 kW boiler.
Outdoor installation.
Powered by natural gas or LPG.

Seasonal space heating energy efficiency class (ErP)		A
Heat input nominal / minimum	kW	99,8/5,0
Effective power nominal / minimum 60/80°C	kW	98,1/5
Effective power nominal / minimum 30/50°C	kW	106,6/5,4
Operating point 60/80°C efficiency nominal / minimum	%	98,3/106,8
Operating point 30/50°C efficiency nominal / minimum	%	106,8/108,8
Gas consumption natural gas / LPG	m ³ /h-kg/h	10,59/7,77
Power supply		230 V - 50 Hz single phase
Electrical power absorption	kW	0,480
Water fitting / Gas connection	"M	1 ^{1/4} - 1
Flue gas exhaust	mm	100
Expansion tank capacity	l	10
Size width / depth / height	mm	730/600/977
Weight in operation	kg	95

4 Installation modes

ROBUR condensing boilers are suitable for maximum system power up to 800 kW and 4 different installation modes.



Stand alone

Single outdoor installation.



Modular installation and cascade control

The cascade control (optional accessory) manages:

- Up to 8 boilers (800 kW).
- Up to 4 pumps (2 delivery, DHW and DHW recirculation).
- Up to 2 mixing valves.
- Up to 4 water probes (manifold, 2 mixed circuits, DHW buffer tank).



Combined heating system

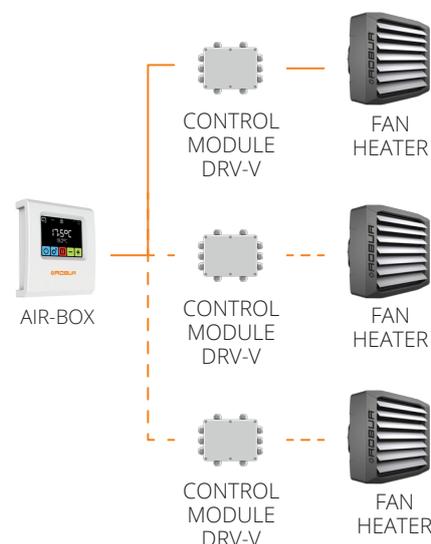
Combined heating systems made with gas condensing boiler and indoor fan heaters.

3 different powers, variable flow rate on 3 ventilation levels perfectly respond to customer requests. Adjustable bracket allows you to install the fan heater where and how it is needed.



Centralize ventilation management system

Robur Air Box optional accessory is the centralized ventilation management system of fan heaters and destratifiers. The intelligent Air Box control allows you to integrate up to 31 devices into a single controller, for effective management of the heating-ventilation system, efficient recovery of heat in buildings and savings on heating costs.



A quality service always at the customer's side.

Customer care, innovation, flexibility,
respect for the environment and team spirit are
what drive Robur's quality.

We provide support throughout all stages, from
initial design to units supply and after sales service,
with continuous performance monitoring for optimal
system operation.

Discover the entire range

Series "G" unit: modulating condensing gas heater

Series "NEXT-R" unit: modulating low emission gas heater

Air Tech: destratificator

Independent gas convector

AD: evaporative cooler

K18: heat pump powered by natural gas ideal for homes

GAHP: heat pump powered by natural gas

GA ACF: chiller powered by natural gas

AY: condensing boiler

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All Robur products are strictly Made in Italy, for over 60 years.

The best Italian professionals study, develop and produce the solutions
for Robur air conditioning, to bring you the right climate!

*With the aim of continuously improving the quality of its products,
Robur reserves the right to change the data indicated, without notice.*



YouTube

