

Quadra Green

Condensing Wall-Hung Boilers



Residential Heating



A condensing range designed to enable any replacement or new installation

NEW CONNECTIONS

New DIN connections to facilitate any replacement or new installation in buildings with the same configuration.

LINEAR AND COMPACT DESIGN FOR A FLEXIBLE INSTALLATION A linear and compact design, coupled with low lift weight, enable a flexible installation of the boiler almost anywhere in the home.

LOW ENERGY SYNCHRONOUS PUMP (EEI \leq 0,20) complying with ErP Directive in terms of efficiency and energy savings.

5:1 MODULATION RATIO

QUADRA GREEN range is ErP compliant

Beretta QUADRA GREEN range complies with the European ErP regulations, which came into force on 26.09.2015.

From that date onwards, a new energy labelling was implemented for appliances and systems producing heating and domestic hot water and a series of efficiency and emissions constraints automatically excluded the less performing classes of appliances. The new ErP regulations aim to help the EU countries to reach by 2020 the "20-20-20" target, meaning a 20% reduction of gas emissions; a 20% increase in the use of renewable energies; a 20% reduction in global energy consumptions.



CO₂ reduction



renewable energies



energy consumptions

Condensing Wall-Hung Boilers

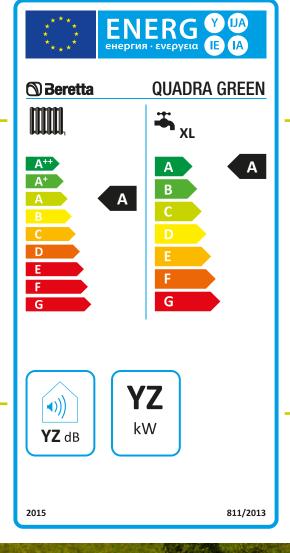
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Space heating function

Seasonal space heating energy efficiency class: A (on all models)

Sound power level indoors

Specifications for each model are detailed on the back cover page



Water heating function

This section refers only to combi models: - Load profile: XL - Energy Efficiency Class: A

Rated heat output

Specifications for each model are detailed on the back cover page

Saving energy, saving money

The new energy labelling, that according to the ErP directive was implemented in September 2015 for appliances and systems producing heating and domestic hot water, means that all boilers and heating systems are labelled in the same way as "white goods", like washing machines and refrigerators. The energy labelling enables the end-users to make realistic comparisons among different products. By choosing high efficiency products, the end-users can lower their energy bills, helping to safeguard the environment.

Quadra Green





QUADRA GREEN range fully complies with the European ErP regulations:

seasonal space heating energy efficiency class

water heating energy efficiency class and water heating load profile

- QUADRA GREEN is a wall-hung condensing boiler with compact dimensions and low lift weight which enable a flexible installation almost anywhere in the home.
- Low Energy synchronous pump (EEl ≤ 0.20), positioned on the right side of the boiler (frontal view).
- The RANGE RATED certification allows to adapt the power of the boiler to the real thermal requests of the installation.
- Stylish and easy-to-use control panel.
- NEW DIN connections, to enable an easy insallation both as a replacement or in new buildings with the same configuration.

- "Survivor" function in DHW mode, allowing the boiler, in the event of failure of the DHW NTC probe, to continue to operate.
- Reduced waiting time for DHW supply thanks to pre-heating function.
- Built-in climatic thermoregulation that can be activated through the external probe (as option) for a high comfort level inside the house.
- S.A.R.A. system: automatic temperature control in heating mode.
- Electrical protection IPX5D.
- Suitable for the connection with remote control panel Beretta (available as option).
- Installation 3CEP through specific flue kit.
- Hydraulic connections, gas and DHW taps available as option.
- · Dedicated flue options in PP.
- QUADRA GREEN can be converted to LPG through specific LPG kit (available as option).

 Frost protection system
 Electrical protection IPX5D
 Low Energy synchronous pump

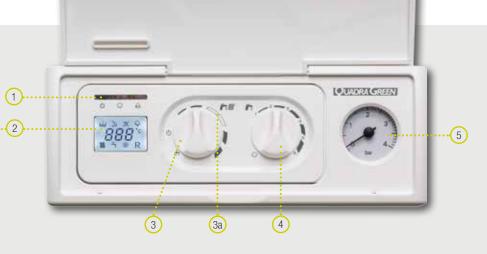
 Range Rated
 "Survivor" function



Linear design, easy-to-use controls

QUADRA GREEN range, characterized by a linear and stylish design, is provided with a simple and easy-to-use control panel that allows to easily adjust the boiler parameters and activate all different functions.

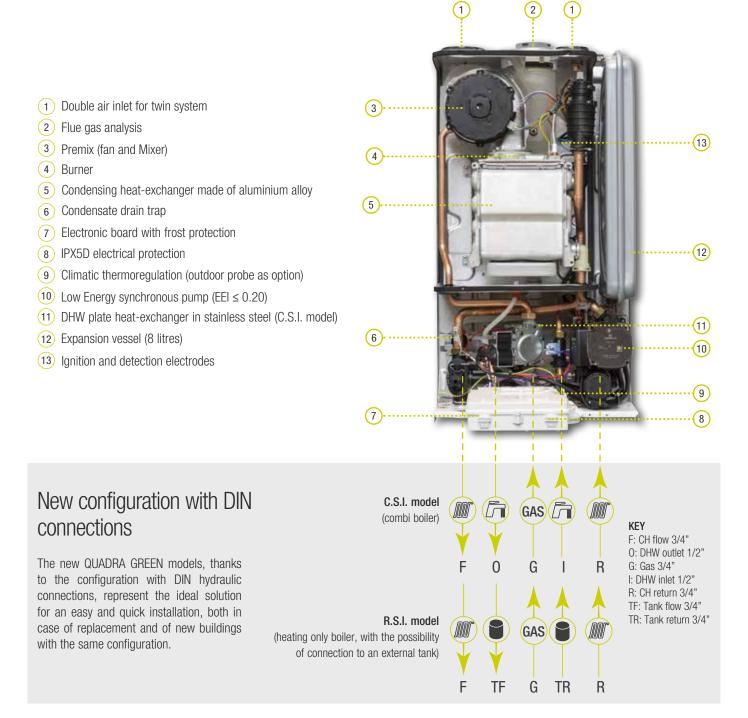
A white backlight digital display, thanks to the easy-to-read symbols, and three LEDs, signal in a clear way boiler operation status and diagnostics codes. Two easy-touse knobs allow to set the central heating temperature and the DHW temperature and to activate the S.A.R.A. function.



- (1) 3 diagnostic LEDs
- (2) White backlight digital display
- 3 On/Off/Summer/Winter/Reset/Heating temperature
- (3a) "S.A.R.A. function" selector
- C.S.I. model: DHW temperature selector/ Pre-heating activation selector or chimney sweeper function

R.S.I. model: DHW temperature selector/chimney sweeper function
 Hydrometer

A range designed to provide high performance



Condensing heat-exchanger

The innovative and compact condensing heat-exchanger of QUADRA GREEN, made of an aluminium alloy, is assembled through a brazing manufacturing process in a controlled atmosphere.

The aluminium alloy, besides allowing a more uniform heat distribution, offers high

resistance to corrosion to the benefit of a longer life of the component. Aluminium is also characterised by lightness, excellent thermal transfer, mechanical properties, reliability and recyclability.

The condensing heat-exchanger allows to

recover a large part of the latent heat of the gas flues, reducing in this way much of the heat losses.

The premix burner optimizes the combustion mixture while reducing NOx emissions to a minimum.

S.A.R.A. system: comfort and saving

All the models in the QUADRA GREEN range are equipped with the Beretta patented S.A.R.A. system (Automatic Temperature Control), which can be enabled by moving the temperature control knob of the central heating circuit to the dedicated sector (between 55°C and 65°C). The S.A.R.A system achieves the best compromise between the average temperature of the radiators and the quickness in reaching the required room temperature, while providing energy and money saving. When there is a demand for heating, the appliance will automatically raise the heating flow temperature twice by 5°C every 20 minutes, in order to heat the home more quickly. When the heating request has been satisfied (see diagram), the appliance will swich off automatically till the next heating request. At that point the boiler will start again at the previously set flow temperature.

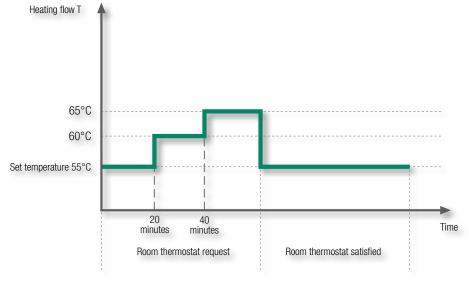


Range rated

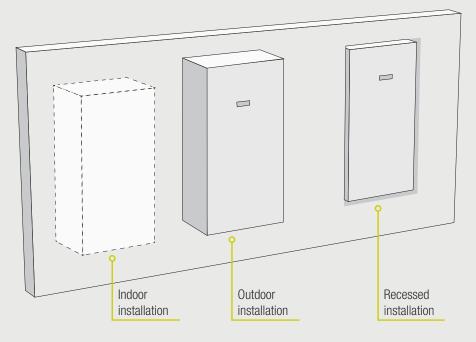
The term "Range Rated" identifies a product certified at different levels of heat input and provided with a special feature allowing to precisely adapt the maximum power of the boiler to the thermal needs of the central heating system.

With QUADRA GREEN Beretta offers the possibility to set the power of your boiler according to the real energy requests of the building through a simple operation during the installation. The fan revolutions number (r.p.m.) will only have to be adjusted and the new set power will be written on a label on the boiler.

Thanks to the "Range Rated" certification, QUADRA GREEN operation can be optimized, avoiding any gas waste and reducing wear and tear on boiler components.



A boiler for a versatile installation

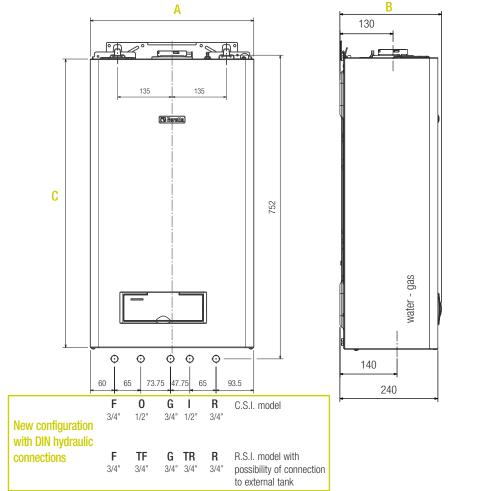


QUADRA GREEN has been specifically designed to be installed also outdoor in partially protected or recessed places, thanks to the specific accessories and to the frost protection system down to 0°C. In case of colder temperatures, it is possible to extend the protection down to -10°C by using the frost protection kit. In case of outdoor installation of the boiler, not recessed in a box or in a wall, the lower

cover is needed for a higher protection.

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Technical drawings

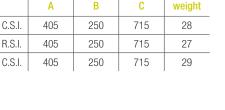


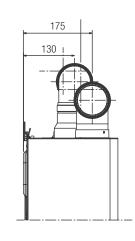
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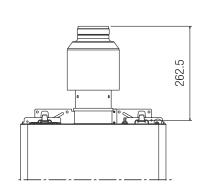
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	Α	В	С	weight
25 C.S.I.	405	250	715	28
25 R.S.I.	405	250	715	27
30 C.S.I.	405	250	715	29

87

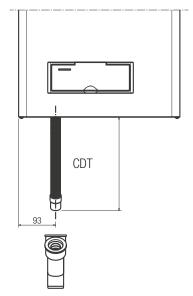




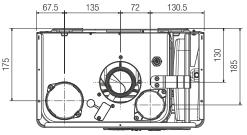


For all flueing configurations please refer to the current local and national rules.

KEY: System: Flow F/Gas G/Return R Domestic water: Outlet O/Inlet I Tank: Tank flow TF/Tank return TR CDT: condensate drain trap



View from above



Combi model (CH + DHW)

R Heating Only model

S Room-sealed

Ionisation flame control

EVERGY LABELLING SPECIFICATIONS (according to ErP regulations)		QUADRA GREEN 25 C.S.I.	QUADRA GREEN 25 R.S.I.**	QUADRA GREEN 30 C.S.I.
Seasonal space heating energy efficiency class		A	A	A
Water heating energy efficiency class		A	-	A
Declared load profile		XL	-	XL
ated heat output	kW	20	20	24
ound power level inside	dB	53	53	56
easonal space heating energy efficiency	%	93	93	93
UXILIARY ELECTRICITY CONSUMPTION				
t full load	W	29,0	29,0	38,0
it part load	W	12,6	12,6	15,3
n Stand-by mode	W	5,6	5,6	5,6
OTHER SPECIFICATIONS CH nominal heat input	kw	20.00	20.00	25.00
CH nominal heat output (80°-60° C)	kw kW	,	i.	23.00
	kw kw	19,50	19,50	, , , , , , , , , , , , , , , , , , ,
H nominal heat output (50°-30° C)	kw kW	20,84 5,00	20,84 5,00	26,23 6,00
H minimum heat input H minimum heat output (80°-60° C)	kw kW	5,00 4,91	5,00 4,91	<u> </u>
H MINIMUM Neal oulput (80°-60° 6)	kw kW	4,91 5,36		<u> </u>
CH minimum heat output (50°-30° C)	kw kW		5,36	
HW nominal input		25,00	25,00	29,00
HW maximum output*	kW kW	25,00	25,00	29,00
HW minimum input		5,00	5,00	6,00
HW minimum output*	kW	5,00	5,00	6,00
fficiency at max nominal output (80°-60° C)	%	97,5	97,5	97,8
fficiency at min output (80°-60° C)	%	98,1	98,1	98,3
ifficiency at partial load 30% (47°C return)	%	102,2	102,2	102,0
fficiency at max nominal output (50°-30° C)	%	104,2	104,2	104,9
fficiency at min output (50°-30° C)	%	107,2	107,2	106,7
fficiency at partial load 30% (30°C return)	%	108,9	108,9	108,4
IOx class		5	5	5
lectrical protection	IP	X5D	X5D	X5D
ower supply	V/Hz	230/50	230/50	230/50
Aax power consumptiom CH / DHW	W	69 / 83	69 / -	78 / 90
CENTRAL HEATING	h	0 00	0 00	0.00
Aaximum pressure - temperature	bar - °C	3 - 90	3 - 90	3 - 90
An inclusion and initial and an and a second se		0.045		0.045
Maximum - minimum pressure	bar	6 - 0,15		6 - 0,15
DHW production $\Delta T=25^{\circ}C / 30^{\circ}C / 35^{\circ}C$	l/min	14,3 / 11,9 / 10,2		16,6 / 13,9 / 11,9
djustable hot water temperature range	°C	37 - 60		37 - 60
H flow - return/Gas	Ø	3/4"	3/4"	3/4"
DHW** inlet - outlet	Ø	1/2"	(3/4")	1/2"
LUE PIPES AND AIR INTAKE				
lax length (including 90° bend) for concentric 60-100mm	m	5,85	5,85	4,85
lax length for concentric 80-125mm	m	15,3	15,3	12,8
Nax length for twin 80+80mm	m	45+45	45+45	40+40
AS				
Certified gas types		II2H3P / II2E3P	II2H3P / II2E3P	II2H3P / II2E3P
Available gas versions		NG, LPG***	NG, LPG***	NG, LPG***

* average among the different functioning conditions in DHW
 ** values of DHW function are to be considered only in case of connection with an external tank
 *** LPG version available with conversion kit (supplied as standard)

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