New RinNova

STANDARD EFFICIENCY COMBINATION BOILER

BIASI
COMFORT MADE IN ITALY

Standard efficiency combination boiler

New RinNova

New RinNova is the wall-mounted boiler for heating and the production of DHW. It is available with a sealed chamber with a complete output range (**24, 28 and 32 kW**) New RinNova is suitable for any house, from a villa to a small apartment.

Biasi has developed an **innovative digital control panel**, a simple user interface with a list of useful information for the user as well as immediate programming procedures to be used by the installer.

This new and modern design and the compact dimensions of the whole range make New RinNova suitable to be installed in any environment.

Boiler control panel

Control Panel

Winter/Summer/Off selector
Heating temperature regulator
DHW temperature regulator
Analog pressure reading
Screen display of DHW and heating temperature
Display of fault diagnostics, lockout conditions and fault log

Base remote control

Remote control and thermoregulation

The new remote control (optional) allows the boiler to be controlled by customising its operation depending on different requirements.
Two keys will let you regulate the temperature of the hot water produced without having to go through tedious mixing operations. The ambient temperature is easy to set using two keys. With one special key, you can discover the temperature of the domestic environment.
By connecting the external probe directly to the boiler you can benefit from climate regulation. New RinNova boiler will adjust the water temperature in the system to external climatic conditions, ensuring the desired ambient temperature is reached without any wastage and optimising consumption. The use of climate regulation also produces a rise in the regulation efficiency, increasing the value of your home.

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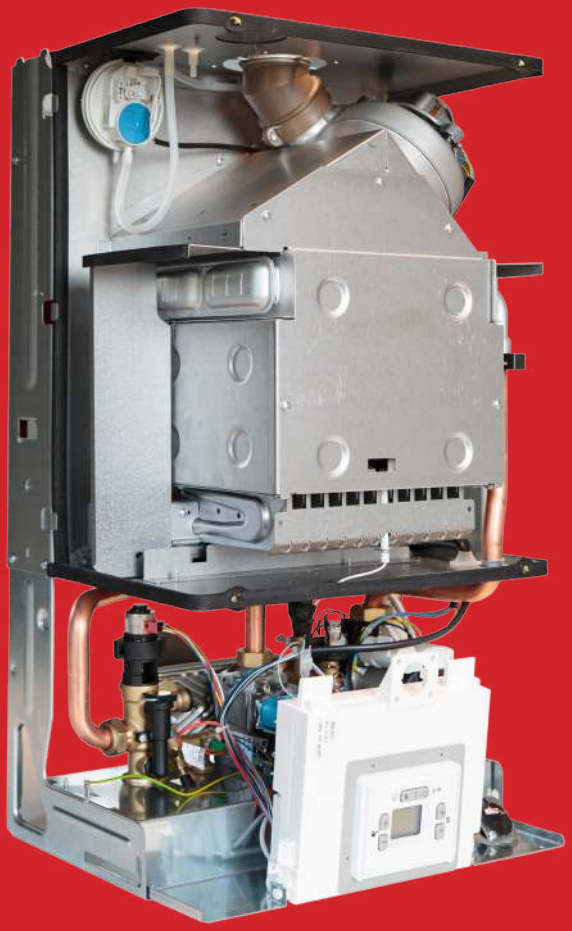

Main features:

- High efficiencies (sealed chamber model ★★★ conforming to Efficiency Directive 92/42 EEC and Legislative Decree 311/06)
- High circulation, laminar primary copper heat exchanger
- DHW exchanger with stainless steel plates
- Protection rating IPX5D (sealed models)
- Integration with BIASI solar system by means of solar kit
- Innovative digital control panel with graphic interface and keys
- Analog pressure reading
- Provision for remote control and external probe

DHW★★★ EN 13202

Optional solar kit

Integration with the solar kit

New RinNova can be easily combined with a solar system using the BIASI solar kit. Quick and easy to install, it does not require electrical parts and allows integration of the solar system with the boiler to be optimised, so that intervention only takes place when necessary to ensure the required comfort temperature.

★★★ (Efficiency Directive 92/42 EEC)

New RinNova is a very efficient boiler. The primary copper heat exchanger with eight countercurrent pipes makes the entire BIASI range stand out in the market. The heat output modulation ensures low gas consumption and optimizes operation on the basis of the requirements for heating and DHW.

Included in the supply

- Boiler supporting bracket and cardboard template

Technical data

		New RinNova Stardard efficiency		
		24 S	28 S	32 S
Nominal heating/d.h.w. heat input	kW	25,5	31,1	33,9
Minimum heat input (Hi) for heating	kW	14,5	16,5	20
Minimum d.h.w heat input (Hi)	kW	11	13	15,5
Maximum output power for heating/d.h.w	kW	23,7	29,1	30,6
Minimum output power for heating	kW	12,9	14,9	18
Minimum output power for d.h.w	kW	9,8	11,8	14
Nominal efficiency 60 / 80 °C	%	92,8	93,3	93,1
Min. efficiency 60 / 80 °C	%	89,2	90,6	90,2
Efficiency At 30 % of load	%	90,7	92,2	90,9
Heat loss at the chimney with burner operating	Pf (%)	6,3	5,2	5,9
Heat loss at the chimney with burner operating	Pfbs (%)	0,2	0,2	0,2
Heat loss towards the environment through the casing with the burner operating	Pd (%)	0,9	1,5	1
Energy efficiency		***	***	***
Methane G20	m³/h	2,7	3,29	3,59
Propane G31	kg/h	1,98	2,42	2,63
Adjustable temperature	°C	38-85	38-85	38-85
Max. operating temp.	°C	90	90	90
Maximum pressure	kPa	300	300	300
Minimum pressure	kPa	30	30	30
Available pressure difference (at 1000 l/h) *At minimum useful power	kPa	20,4	21	28,5
Temp. Minimum - maximum	°C	35-60	35-60	35-60
Maximum pressure	kPa	1000	1000	1000
Minimum pressure	kPa	30	30	30
Maximum flow rate				
(ΔT=25 K)	l/min	13,6	16,7	17,5
(ΔT=35 K)	l/min	9,7	11,9	12,5
Minimum flow rate	l/min	2,5	2,5	2,5
specific d.h.w flow rate (ΔT=30 K)*... *Reference standard EN 625	l/min	11,2	13,6	15,2
Max. flue gas temperature at 60/80 °C	°C	123	111	125
Max. flue gas mass flow rate	kg/s	0,0154	0,0171	0,0196
Min. flue gas mass flow rate	kg/s	0,0172	0,018	0,0205
Max. air mass flow rate	kg/s	0,0149	0,0165	0,019
Min. air mass flow rate	kg/s	0,0169	0,0177	0,0205
*Value refer to tests with 80 mm 1 + 1 twin pipe discharge Methane gas G20 and heat input in d.h.w. Mode				
Voltage	V	230	230	230
Frequency	Hz	50	50	50
Output at nominal heat input	W	107	116	139
Output at minimum heat input	W	106	115	137
Output in stand-by	W	3	3	3
Degree of protection		IPX5D	IPX5D	IPX5D
Height	mm	703	703	703
Width	mm	400	400	400
Depth	mm	325	325	325
Weight	kg	32,7	33,4	34,5
Water content in boiler	dm³	2	2	2
Min. ambient temperature	°C	n.a	n.a	n.a
Max. ambient temperature	°C	n.a	n.a	n.a
Boiler type		B22 C12 C32 C42 C52 C62 C82	B22 C12 C32 C42 C52 C62 C82	B22 C12 C32 C42 C52 C62 C82
Coaxial air/flue gas duct ø	mm	60/100	60/100	60/100
Twin pipe air/flue gas ø	mm	80/80	80/80	80/80
Coaxial air/flue gas duct to roof ø	mm	80/125	80/125	80/125

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