EFFICIENCY AND PERFORMANCE ALSO WITH OIL

European regulations on matter of energy efficiency state that it is mandatory to sell equipment with a minimum performance value and a corresponding energy label. The experience of Riello, the computer-assisted design and long test sessions in the lab allowed reaching Class B with cast iron and steel thermal units operating with light oil, without compromising on the traditional reliability.

	STEEL	CAST IRON
HEATING ONLY	 **INSIEME EVOe LN** **INSIEME EVOe 25 LN (26.5 kW)*** **INSIEME EVOe 32 V LN (33.9 kW)***	 **GITRE' LN** **GITRE' 4 LN (25.0 kW)** **GITRE' 5 LN (32.0 kW)** **GITRE' 6 LN (40.0 kW)**
HEATING AND INSTANTANEOUS DHW	 **INSIEME EVOe K LN** **INSIEME EVOe 25 K LN (28.1 kW)*** **INSIEME EVOe 32 K LN (36.0 kW)***	
HEATING AND DHW WITH BUILT-IN TANK	 **INSIEME EVOe LN** **INSIEME EVOe 25 B/70 LN (26.5 kW)*** **INSIEME EVOe 32 B/110 LN (33.9 kW)***	 **GITRE' B LN** **GITRE' 5 B/100 LN (32.0 kW)**

* All Models can be converted to room sealed version with dedicated accessory kit.

TECHNICAL DATA

	BOILER MODEL	Input power(1)	Nominal output power(1)	Efficiency with nominal output(2)	Efficiency at 30% of nominal output(3)	Domestic hot water production(4)	Storage capacity	Energy class in heating mode	Energy class in domestic hot water mode	Dimensions (lxlxD)	Net weight
		kW	kW	%	%	l/min	l	-	-	mm	kg
GITRE' LN	GITRE' 4 LN	26.5	24.0	89.8	91.9	-	-	B	-	850x450x797	182
	GITRE' 5 LN	33.9	31.0	90.6	91.6	-	-	B	-	850x450x897	214
	GITRE' 6 LN	42.4	38.0	90.7	91.7	-		B	-	850x450x1047	249
	GITRE' 5 B/100 LN	33.9	31.0	90.6	91.6	10.2	100.0	B	B	1500x600x900	286
INSIEME EVOe	INSIEME EVOe 25 LN	28.1	25	90	91.1	-	-	B	-	900W450X660	104
	INSIEME EVOe 32 V LN	36	32	90.2	91.8	-	-	B	-	900X600X760	136
	INSIEME EVOe 25 K LN	28.1	25	90	91.1	20	-	B	B	900W450X660	106
	INSIEME EVOe 32 K LN	36	32	90.2	91.8	22	-	B	B	900X600X760	138
	INSIEME EVOe 25 B/70 LN	28.1	25	90	91.1	20	69	B	B	1355X500X735	155
	INSIEME EVOe 32 B/110 LN	36	32	90.2	91.8	22	106	B	B	1490X600X1700	206

(1) Values referred to the Higher Calorific Value (HCV)
(2) Values calculated operating at high temperature (60÷80°C) and referred to the Higher Calorific Value (HCV)
(3) Values calculated operating at low temperature (return temperature 37°C) and referred to the Higher Calorific Value (HCV)
(4) Values calculated according to EN13203

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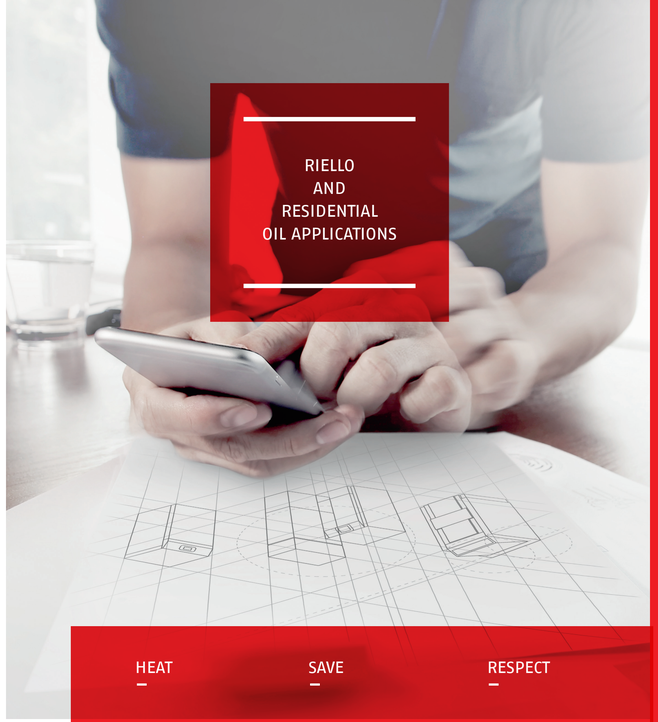
code 20105320 rev.01 10/2018



RIELLO
AND
RESIDENTIAL
OIL APPLICATIONS

HEAT — SAVE — RESPECT

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RIELLO
Energy For Life

LIGHT OIL RESIDENTIAL THERMAL UNITS, LOW NOISE AND RELIABLE

HIGH EFFICIENCY

RELIABILITY

ELECTRONIC CONTROL

TECHNICAL FOCUS

VERSATILITY

EASE OF USE

NO GAS - NO PROBLEM

The use of natural gas for heating applications has progressively simplified and sped up the manufacturing of equipment and thermal units. The ease of use and the capiliarity of the distribution might suggest the end of oil...but that is not the case.

Perhaps for technical difficulties in further expanding the network or for economic limits of investment per user point, the use of heating oil, in particular in low output systems, is still a valid alternative.

Naturally, heavy and stinky old boilers have been replaced by modern, reliable and low noise equipment. Elegant and compact thermal units, often equipped with integrated accessories and components which, besides saving space, help reduce dissipations and consumption.

RIELLO + LIGHT OIL THERMAL UNITS = BIG LOVE

Fifty years have passed since RIELLO presented its first thermal unit. It was big, heavy and expensive but in 1965 it was innovative.

True success arrived in the early nineties when RIELLO made a completely new one, setting much higher reference standards. Reliability, low noise and elegance have won thousands of Customers over. Time has come.

Nowadays it is necessary to diversify and accept more challenging competitions. The new RIELLO light oil thermal units are even quieter, more performing and more respectful of the environment. The new burners and exchange bodies lead to results that will be difficult to match...once again.

GITRE' B

- GG 20 CAST IRON EXCHANGE BODY WITH HIGH THICKNESS AND QUALITY. FINS WITH DYNAMIC AND PROGRESSIVE PATTERN
- LOW NOx FUEL OIL BURNER WITH LOW CONSUMPTION PRE-HEATER AND OVERSIZED IGNITION TRANSFORMER
- INSULATED FRONT DOOR WITH PRE-SHAPED CERAMIC FIBRE. IT CAN BE OPENED TO THE RIGHT/LEFT FOR BODY EASY ACCESS AND CLEANING
- VERSIONS WITH VERTICAL STORAGE TANK PLACED ABOVE THE BOILER BODY AND SUPPLIED WITH LOW ENERGY ABSORPTION PUMP
- EASY TRANSPORT AND HANDLING THANKS TO THE REAR SLIDING WHEELS

GITRE' B

COMBINED VERSIONS

The GITRE' B range is available also in the combined versions for the production of domestic hot water. The built-in tank has a capacity of 100 litres and is equipped with double layer insulation to maximise efficiency and minimise dissipations.

LOW NOx VERSIONS

Riello GITRE B features a "three-pass" heat exchanger, as technicians would call it. The three-pass structure, combined with a burner with combustion flue gas recirculation, allows the progressive and homogeneous cooling of the flame, thus significantly reducing the emission of nitrogen oxides.

ENERGY CLASS

The high performance allows GITRE' B to be ErP ready and to belong to B Class both in heating and domestic hot water mode.

1. Boiler body
2. Exchanger insulation
3. Panelling
4. Control panel
5. Burner
6. Combustion chamber
7. 100l tank
8. Double layer storage insulation
9. Turbulators
10. Flue gas fitting

GITRE'

The new high quality and high thickness cast iron exchange body ensures great reliability. The wide combustion chamber and the aerodynamic fins translate in low thermal load and long duration. The precise designing of the air path and of the combustion head allow for reduced soiling and low noise.

The three-pass exchanger allows optimising efficiency and emissions. The hydraulic unit uses recirculation pumps with low energy consumption; storage tank insulation thickness and design reduces heat losses.

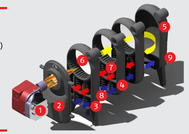
The elegant and intuitive control panel allows adjusting and checking the operation of the thermal unit. It is equipped as standard with total switch-off function and allows the ignition of the burner only during heat requests. The control is designed to favour quick adjustments and reduce condensate formation.

The burner can be restarted from the outside (control panel) with no need to open the front door. The oil burner is equipped with fuel thermostatic pre-heater and ensures easy start-ups also with low temperatures.

The position of the flue gas drain allows replacing old generators, minimising connection interventions.

The vitrification of the storage reduces limescale build-up and fixing. The volume of domestic hot water and the tubular exchanger surface meet the requests of the most demanding Users.

GITRE'



1. Burner
2. Door
3. Front element
4. Intermediate element
5. Rear element
6. Combustion chamber (first pass)
7. Central finned passages (second pass)
8. Lower finned passages (third pass)
9. Flue gas outlet

INSIEME EVOe

INSIEME EVOe

The super tested carbon steel exchange body with vertical installation has been further improved. The precise designing of the air path and of the combustion head ensure reduced soiling and low noise. The "ducted air" versions are even quieter and do not consume the air of the installation room.

The large exchange surface allows a greater use of the fuel with advantages in terms of consumption.
The hydraulic unit uses PWM recirculation pumps with low energy controlled consumption and the insulation thickness reduces heat losses.

The new electronic control panel provided as standard with climatic regulation, manages a direct circuit and controls the production of domestic hot water both when combined with a plate exchanger (instantaneous production) and with a storage. This control can adjust water flow rate of PWM controlled pumps and, through the accessories, manage up to three heating zones.

The burner can be restarted from the outside (control panel) with no need to open the front door. The oil burner is equipped with fuel thermostatic pre-heater and ensures easy start-ups also with low temperatures.

Rear connection thanks to hydraulic fittings positioned in a backward position compared to the back side. Accessories are specifically designed to be installed on board of the machine without exceeding its overall dimensions.

Valves, expansion vessel and collector are on-board the machine to reduce heat losses and dimensions.
The vitrification of the storage tank reduces limescale build-up and fixing. The domestic water content and the tubular exchanger surface meet the requests of the most demanding Users.

1. Door
2. Light guide
3. Backlit display
4. ENTER/RESET key
5. Navigation keys

INSIEME EVOe B

- HIGH QUALITY STEEL EXCHANGE BODY
- LOW NOx LIGHT OIL BURNER EQUIPPED WITH IGNITION AND SAFETY ELECTRONIC CONTROL BOX WITH SELF-DIAGNOSIS
- SOLUTIONS DUCTED AIR THAT CAN BE REMOTELY CONTROLLED THROUGH AIRBOX WITH SILENCING EFFECT
- VERSIONS WITH VITRIFIED TANK WITH LARGE EXCHANGE SURFACE
- SIGNIFICANT INSULATION OF THE BOILER BODY TO REDUCE ENERGY LOSSES DURING OPERATION

COMBINED VERSIONS

Insieme Evo meets the domestic hot water requests through the versions equipped with storage tank or quick heat exchanger. Storage tank of 60 or 95 liters (according to the power) are made in vitrified steel and the insulation is made in closed-cell polyurethane foam. The quick exchangers are active only during the domestic hot water request and the control system uses the flow switch and pressure valve.

LOW NOx VERSIONS

Riello Insieme Evo respects the environment as it reduces fuel consumption, and limits to minimum the emissions of nitrogen oxides. Low emissions are obtained by using a burner equipped with built-in recirculation pump for combustion products.

ENERGY CLASS

The high performance allows Insieme Evo to be ErP ready and to belong to Class B both in heating and domestic water mode.

INSIEME EVOe B

1. Boiler body
2. Panelling
3. Control panel
4. Burner
5. Combustion air suction channel
6. Storage tank
7. Storage anti-corrosion anode
8. Tank insulation
9. Expansion vessel
10. Flue gas fitting
11. Hydraulic separator