

RIELLO
AND THE
DOMESTIC
LIGHT OIL

HEAT
—

SAVE
—

RESPECT
—

SMALL AND MEDIUM POWER LIGHT OIL THERMAL GROUPS SILENT AND RELIABLE



HIGH EFFICIENCY



RELIABILITY

NO GAS – NO PROBLEM

The use of methane for the room heating has gradually simplified and speeded up the construction of appliances and systems. The convenience and the capillarity of the distribution could suggest the end of the light oil...but is not so.

Maybe for the technical difficulties the further expansion of the network, maybe for economic investment limits per user point, the use of light oil, particularly in the small power systems, is still a valid alternative.

Of course, the old, heavy and smelly boilers have given way to modern, reliable and silent appliances. Elegant and compact thermal groups, often equipped with integrated accessories and components which, in addition to saving space, help to reduce dispersion and consumption.



CONTROL ELECTRONICS



TECHNICAL FOCUS

RIELLO + LIGHT OIL THERMAL UNITS = GREAT LOVE

Fifty years have passed since RIELLO presented its first heating unit. It was large, heavy and expensive but, in 1965, it was innovation.

The real success came in the early nineties when RIELLO made a totally new one, setting much higher standards. Reliability, silence and elegance conquered thousands of customers. The time is ripe.

Today it is necessary to diversify and accept more challenging competitions. The new RIELLO light oil thermal units are even quieter, more performing and more environmentally friendly. The new burners and the new exchange bodies lead to results that will not be easy to match...once again.



VERSATILITY



EASE OF USE



INSIEME EVOe

- HIGH QUALITY STEEL EXCHANGE BODY MADE WITH AUTOMATIC CUTTING AND WELDING SYSTEMS
- LOW NO_x LIGHT OIL BURNER EQUIPPED WITH ELECTRONIC IGNITION AND SAFETY EQUIPMENT WITH SELF-DIAGNOSIS
- SOLUTIONS WITH DUCTED AND REMOTE INTAKE THROUGH AIRBOX WITH SILENCING EFFECT
- VITRIFIED SANITARY TANK VERSIONS WITH HIGH EXCHANGE SURFACE FOR FAST START-UPS
- HIGH INSULATION OF THE BOILER BODY TO REDUCE ENERGY LOSSES DURING OPERATION

INSIEME EVOe B



The tried and tested vertical carbon steel exchange body has been further improved. The careful design of the air path and combustion head ensure reduced fouling and low noise. The "sealed" versions are even more silent and do not consume the air of the installation room.



The use of LN version burners equipped with integrated recirculation of the combustion products, combined with the large exchange surface and the use of PWM circulators with low electricity consumption allow INSIEME EVOe to be ErP ready and Class B both in heating* and in sanitary**.



New electronic control panel that has climatic regulation as standard, the possibility of controlling a direct circuit and that can also manage the production of domestic hot water both in combination with a plate exchanger (instantaneous production) and in combination with a storage tank. This control can adjust the water flow rate of the PWM pumps and, through accessories, can manage up to three heating zones.



The burner is unblocked from the outside (control panel) and it is not necessary to open the front door. The light oil burner is equipped with a thermostatic preheating of the fuel and ensures easy starting even at low temperatures.

INSIEME EVOe



Rear approachability thanks to the hydraulic connections back in relation to the backrest. The accessories are suitably designed to be installed on the machine without exceeding the overall dimensions.



Valves, expansion vessel and manifold are located on the boiler to reduce heat losses and dimensions. The vitrification of the tank reduces the deposit and anchoring of limestone. The content of sanitary water and the surface of the tubular exchanger satisfy the most demanding users.

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



* The range of energy efficiency class of this products category is between D and A+++.

** The range of energy efficiency class of this products category is between F and A+.



INSIEME EVO COND

- CONDENSING THERMAL UNIT (CLASS A IN HEATING* ACCORDING TO ERP)
- HIGH QUALITY STAINLESS STEEL BOILER BODY WITH HIGH THICKNESS, OPERATING WITH LOW SLIDING TEMPERATURE
- HIGH VOLUME AND SURFACE COMBUSTION CHAMBER
- SINGLE-STAGE BURNERS FOR 20,25,35 kW MODELS AND DUAL-STAGE FOR 55,70 kW MODELS
- OPERATING WITH ALL LIGHT OIL TYPES ($S < 1000$ ppm)



New condensing stainless steel exchange body, designed to work with all types of light oil ($S < 1000$ ppm) and without limits on the system return temperature. The careful design of the air path and combustion head ensure reduced fouling and low noise. The "sealed" versions are even more silent and do not consume the air of the installation room.



The use of burners with low polluting emissions (dual-stage for the 55, 70 kW models, single-stage for the other models), combined with heat exchangers with a large exchange surface, allow greater use of the fuel with beneficial effects on consumption. Furthermore, the use of PWM circulators (integrated for the 20, 25, 35 kW models) with low power consumption in addition to the high thickness of the insulation, allow to minimize dispersion and consumption.



New electronic control panel, capable of managing the operation of two-stage burners (55, 70 kW) as well as ensuring climatic regulation, controlling a direct circuit and managing the production of domestic hot water in combination with a storage tank. This control can adjust the water flow rate of the PWM pumps and, through accessories, can manage up to three heating zones.



The burner is unblocked from the outside (control panel) and it is not necessary to open the front door. The light oil burner is equipped with a thermostatic preheating of the fuel and ensures easy starting even at low temperatures.



The wide range of power, combined with the different boiler layouts and the wide range of accessories are factors that make this generator able to satisfy the most diverse installation needs.



Valves, expansion vessel are located on the boiler to reduce heat losses and dimensions. The vitrification of the tank reduces the deposit and anchoring of limestone. The content of sanitary water and the surface of the tubular exchanger satisfy the most demanding users.

INSIEME EVO COND B



INSIEME EVO COND



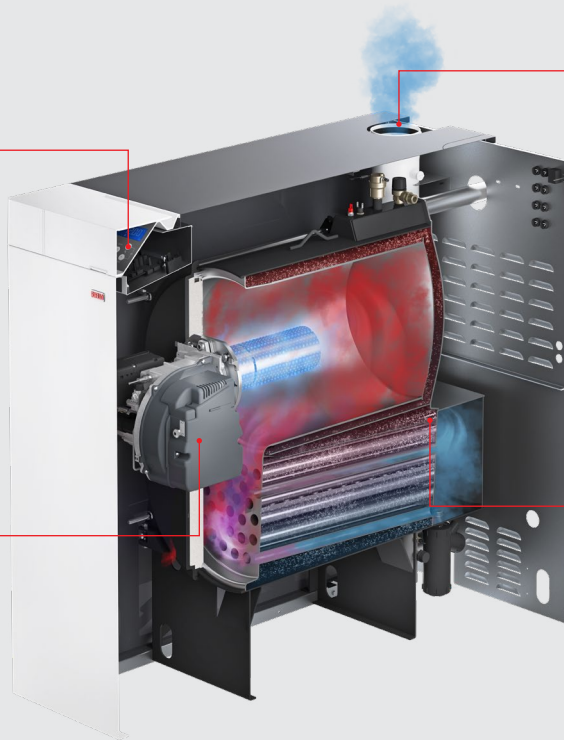
* The range of energy efficiency class of this products category is between D and A+++.



INSIEME EVO COND

New backlit electronic display for the management / control of both the boiler and the distribution system

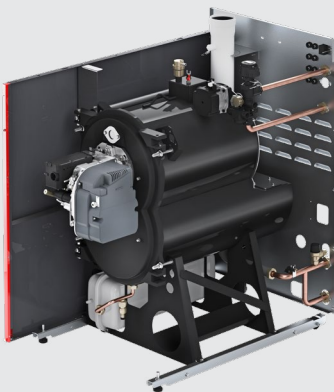
Light oil burners with low polluting emissions (single stage for 20,25,35,45 models, dual stage for 55, 70 models)



Type B flue discharge, convertible to type C thanks to the wide accessories range

New full stainless steel boiler body, developed for operation with all light oil types and without limits on the return temperature

THREE DIFFERENT BOILER CONFIGURATIONS

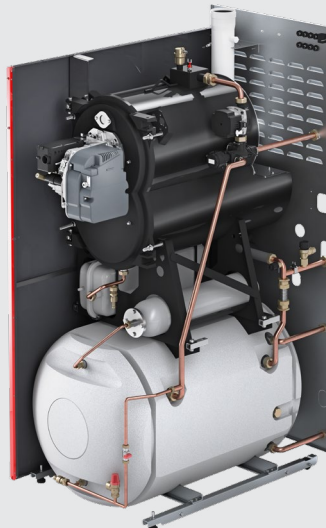


INSIEME EVO COND V LN

INSIEME EVO COND 20 V LN
INSIEME EVO COND 25 V LN
INSIEME EVO COND 35 V LN

MAIN FEATURES:

- Heating only with integrated 3-way valve
- Single-stage burners
- FULL STAINLESS STEEL body



INSIEME EVO COND B LN

INSIEME EVO COND 25 B/130 LN
INSIEME EVO COND 35 B/130 LN

MAIN FEATURES:

- Combined with 130 lt vitrified sanitary storage tank
- Single-stage burners
- FULL STAINLESS STEEL body



INSIEME EVO COND LN

INSIEME EVO COND 45 LN
INSIEME EVO COND 55 LN
INSIEME EVO COND 70 LN

MAIN FEATURES:

- Heating only
- Single-stage (45) and two-stage (55,70 kW) burners
- FULL STAINLESS STEEL body



EFFICIENCY AND PERFORMANCE ALSO WITH LIGHT OIL

The European regulations referring to the energy saving require the sale of appliances with a minimum efficiency value and the corresponding Energy Label. The Riello experience, the calculator-assisted design and the long laboratory session tests have made it possible to reach the Class B (INSIEME EVOe) in both heating⁽¹⁾ and domestic hot water⁽²⁾ and the Class A (INSIEME EVO COND) in heating⁽¹⁾ without compromising the proverbial reliability both of the cast iron and stainless steel thermal units working with light oil.

	CLASS A (IN HEATING ⁽¹⁾) CLASS B (IN DOMESTIC HOT WATER ⁽²⁾)	CLASS B (IN HEATING ⁽¹⁾ AND DOMESTIC HOT WATER ⁽²⁾)
HEATING ONLY	 INSIEME EVO COND INSIEME EVO COND 20 V LN (20 kW) (*) (**) INSIEME EVO COND 25 V LN (25 kW) (*) (**) INSIEME EVO COND 35 V LN (35 kW) (*) (**) INSIEME EVO COND 45 LN (45 kW) INSIEME EVO COND 55 LN (55 kW) INSIEME EVO COND 70 LN (70 kW)	 INSIEME EVOe LN INSIEME EVOe 25 LN (26,5 kW) (*) (**) INSIEME EVOe 32 V LN (33,9 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 INTEGRATED TANK	 INSIEME EVO COND B INSIEME EVO COND 25 B/130 LN (25 kW) (*) (**) INSIEME EVO COND 35 B/130 LN (35 kW) (*) (**)	 INSIEME EVOe B LN INSIEME EVOe 25 B/70 LN (26,5 kW) (*) INSIEME EVOe 32 B/110 LN (33,9 kW) (*)

(*) All models can be converted into the "sealed chamber" with specific accessories.

(**) Models with integrated 3-way valve.

(1) The range of energy efficiency class of this products category is between D and A+++.

(2) The range of energy efficiency class of this products category is between F and A+.

TECHNICAL DATA

BOILER MODEL		Heat input at furnace (1)	Useful heat output Pn (1)	Efficiency at Pn (2)	Useful efficiency at 30% Pn (3)	DHW production (4)	Storage tank capacity	Efficiency class in central heating mode	Efficient class in domestic hot water mode	Dimensions (HxLxP)	Net weight
		kW	kW	%	%	l/min	l	D → A+++*	F → A+**	mm	kg
INSIEME EVOe	INSIEME EVOe 25 LN	28,1	25	90	91,1	-	-	B	-	900x450x660	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	900x450x660	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	1490x600x700	206
INSIEME EVO COND	INSIEME EVO COND 20 V LN	21,2	20	91,8	99,9	-	-	A	-	1000x600x994	120
	INSIEME EVO COND 25 V LN	26,5	24	91,4	99,6	-	-	A	-	1000x600x994	120
	INSIEME EVO COND 35 V LN	37,1	34	91	98,9	-	-	A	-	1000x600x994	150
	INSIEME EVO COND 45 LN	47,7	44	91,7	98,9	-	-	A	-	1138x600x1155	195
	INSIEME EVO COND 55 LN	58,3	53	91,4	98,9	-	-	A	-	1138x600x1155	198
	INSIEME EVO COND 70 LN	74,2	68	91,3	98,9	-	-	A	-	1138x600x1155	202
	INSIEME EVO COND 25 B/130 LN	26,5	24	91,4	99,6	23	130	A	B	1540x600x975	150
	INSIEME EVO COND 35 B/130 LN	37,1	34	91	98,9	24	130	A	B	1540x600x975	195

* The range of energy efficiency class of this products category is between D and A+++.

** The range of energy efficiency class of this products category is between F and A+.

1) Values referred to the Higher Heating Value (HHV)

2) Values calculated in a high temperature regime (80-60°C) and referred to the Higher Heating Value (HHV)

3) Values calculated in a low temperature regime (return temperature 37°C) and referred to the Higher Heating Value (HHV)

4) Values calculated according to EN13203



RIELLO S.p.A.
Via Ing. Pilade Riello, 7
37045 Legnago (VR) - Italy
tel. +39 0442 630111

www.riello.com

Riello reserves the right to change the information and specifications contained herein at any time and without notice. The contents and information provided herein are for informational purposes only and are not intended to provide legal or professional advice. This document, therefore, cannot be considered binding on third parties.

©Riello S.p.A. All Rights Reserved.