



REX SERIES  
1400 TO 3500 KILOWATTS



## HOT WATER BOILERS

### REX 1400 kW - 3500 kW

ICI Caldaie REX hot water boiler is a three pass reverse flame wet back horizontal firetube boiler suitable for operation on either Gas or lights oil. The REX hot water boiler combines excellent reliability and durability with high thermal performance. REX has an operating pressure of 500 kpa.

#### FEATURES

- **REX 140-350 steel boiler**, employs a cylindrical concentric combustion chamber with reverse flame, a blind furnace completely supported by a submerged nozzle projection welded into the rear tube plate facilitating a fully submersed wet back. The boiler is designed to be used in systems with water temperature between 60 and 100 °C (safety thermostat set at 110 °C). 3 stars classification according to 92/42/EEC directive in compliance with 192/05 and 311/06 Legislation.
- **Boiler body built** high quality steel, made from front tube sheet flanged to the combustion chamber using RSB procedures and from concave rear plate (rather than a flat surface for a better resistance internal pressure).
- **Cylindrical reverse flame combustion chamber**, supported by a submerged nozzle; the flame is positioned centrally within the chamber, whilst the hot gases return to the front of the furnace forming a second pass within the furnace, with the hot gases being conveyed through the tube bundle to the rear smoke box.
- **EN10217-2 P235GH smoke tubes** welded to tube plates, fitted with special helical turbolators.
- **The rear smoke box**, manufactured from thermally insulated steel sheets, constructed in one piece that can be easily opened and that allows smoke tube inspections, fastened with bolts, equipped with chimney connection and cleaning door.
- **Boiler casing** equipped with system and working device connections, all manufactured with approved welding procedures and qualified personnel.
- **High density, glass wool mattress insulation.**
- **Steel sheet, fiber-ceramic, thermal insulated**, reversible front door, mounted on hinges, easily opened with equipped lever by drilled ferrules.
- **Supplied insulated**, from factory
- **Higher pressures**, available upon request

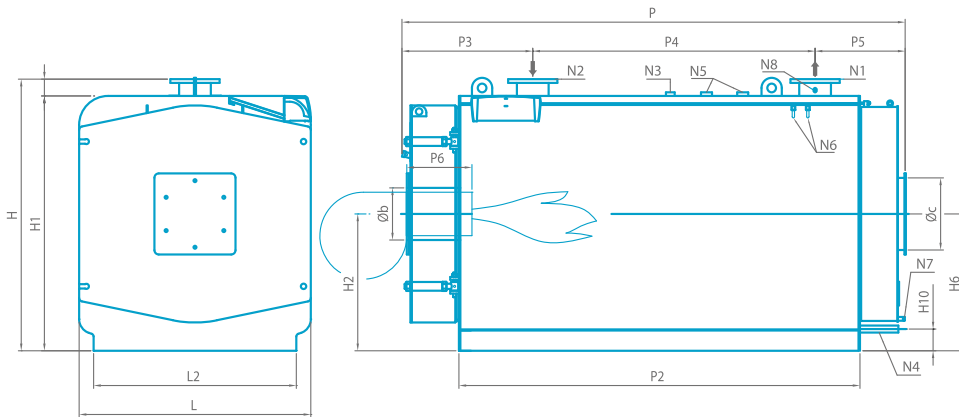
#### BENEFITS

- Efficiency exceeding 90%.
- Long-lasting boilers.
- High water volume.
- Anti scale and anti condensate design.
- Built with the highest precision to provide maximum reliability.
- High performance steel fire tube with forced draft burner for return water temperature above 55 C°.
- All Boilers carry the "CE" mark and have the following certifications: 90/396/CE GAS & 92/42/CE

#### APPLICATIONS

- Hospitals
- Commercial buildings
- Hotels
- Universities
- Government buildings
- Racecourse facilities
- Commercial and Industrial applications

## REX SERIES



REFERENCE DRAWING

**Legend:**

- N1 Boiler flow
- N2 Boiler return
- N3 Equipment connections
- N4 System load/drain connection
- N5 Safety valve connection
- N6 Bulb sheath
- N7 Condensate drain
- N8 Instrument pocket

**Standard equipment**

- Complete insulating
- Turbolators
- Cleaning brush

CHARACTERISTICS MODEL	NOMINAL POWER TEMP. MEDIUM 70°C	10% EFFICIENCY (ref. C.O.P.) TEMP. MEDIUM 70°C	30% EFFICIENCY (REF. C.O.P.) TEMP. MEDIUM 70°C	FLUE GAS PRESSURE DROP	PRESSURE DROP HYDRAULIC (ΔT=12°C)	WATER CONTENT	WEIGHT TOTAL
REX SERIES	kW	%	%	mbar	mbar	lt	kg
REX 140	1400	92,29	91,70	6,0	38	1500	2600
REX 160	1600	92,33	91,80	6,5	50	1500	2600
REX 180	1800	92,31	91,80	7,0	63	1650	2750
REX 200	2000	92,29	91,70	6,0	25	2000	3650
REX 240	2400	92,31	91,80	7,5	35	2300	3900
REX 300	3000	92,31	91,80	8,0	55	3150	5200
REX 350	3500	92,30	91,70	9,0	75	3650	5700

**DIMENSIONS**

Dimensions	H	H1	H2	H6	H10	L	L2	P	P2	P3	P4	P5	P6	Øb	Øc	N1	N2	N1/N2	N3	N4	N5	N6	N7	N8
Model	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN/in	DN/in	PN	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in
REX 140	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400	320	400	150	150	16	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 160	1746	1630	880	880	150	1470	1270	2886	2300	831	1300	755	350-400	320	400	150	150	16	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 180	1746	1630	880	880	150	1470	1270	3096	2510	771	1850	475	450-500	320	400	150	150	16	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 200	1876	1760	945	945	150	1600	1400	3220	2510	903	1550	767	450-500	360	500	200	200	16	1"	1"1/4	2"	1/2"	1/2"	1/2"
REX 240	1876	1760	945	945	150	1600	1400	3480	2770	903	1950	627	450-500	360	500	200	200	16	1"	1"1/4	2"	1/2"	1/2"	1/2"
REX 300	2146	2030	1080	1080	150	1870	1670	3480	2770	903	2050	527	450-500	400	550	200	200	16	1"	1"1/4	2"	1/2"	1/2"	1/2"
REX 350	2146	2030	1080	1080	150	1870	1670	3935	3225	903	2050	982	450-500	400	550	200	200	16	1"	1"1/4	2"	1/2"	1/2"	1/2"

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