



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 90 °C (safety thermostat set at 100 °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

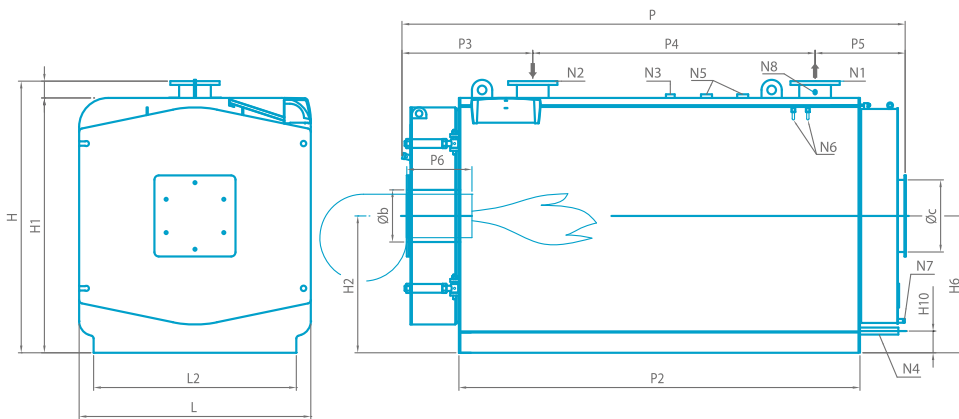
BENEFITS

- 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 | 28 | 1500 | 2600 |
| REX 160 | 1600 | 92,33 | 91,80 | 6,5 | 32 | 1500 | 2600 |
| REX 180 | 1800 | 92,31 | 91,80 | 7,0 | 37 | 1650 | 2750 |
| REX 200 | 2000 | 92,29 | 91,70 | 6,0 | 35 | 2000 | 3650 |
| REX 240 | 2400 | 92,31 | 91,80 | 7,5 | 40 | 2300 | 3900 |
| REX 300 | 3000 | 92,31 | 91,80 | 8,0 | 49 | 3150 | 5200 |
| REX 350 | 3500 | 92,30 | 91,70 | 9,0 | 60 | 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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