



REX F SERIES
1400 TO 3500 KILOWATTS



HIGH EFFICIENCY HOT WATER BOILERS

REX F SERIES 1400 kW - 3500 kW

ICI CALDAIE REX F hot water boilers are designed to provide energy efficiency and cost savings for the user. The REX F is a three pass reverse flame wet back horizontal firetube boiler suitable for use on gaseous fuels only. Complete with Australian supplied burners and AGA approved gas trains, REX F boilers combine excellent reliability, high thermal performance and durability. REX F have an operating pressure of 500kPa.

FEATURES

- **REX 140F-350F 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 tubeplate facilitating a fully submerged 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).
- **Boiler body built** from 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 into the front and rear tube plates incorporating internally finned extruded aluminum (Fin-e®), pressure-fitted to the rear part of the boiler tubes as to ensure full surface contact.
- **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.

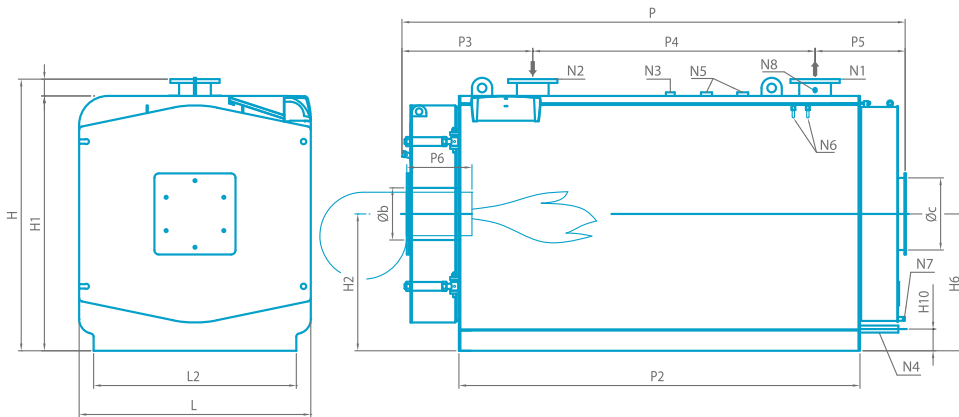
BENEFITS

- Boiler efficiency exceeding 95%
- High energy performance, reducing environmental impact
- Long-lasting boilers
- 3 star generator with flame inversion furnace
- High water volume

APPLICATIONS

- Hospitals
- Commercial buildings
- Hotels & Resorts
- Government buildings
- Racecourse facilities
- Commercial and Industrial applications

REX F SERIES



REFERENCE DRAWING

Legenda:

- 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 F SERIES	kW	%	%	mbar	mbar	lt	kg
REX 140 F	1400	95,37	95,87	6,6	38	1500	2665
REX 160 F	1600	95,52	95,80	7,1	50	1500	2665
REX 180 F	1800	95,49	95,70	7,6	63	1650	2815
REX 200 F	2000	95,51	95,80	6,6	25	2000	3730
REX 240 F	2400	95,31	95,40	8,1	35	2300	3980
REX 300 F	3000	95,48	95,60	8,6	55	3150	5300
REX 350 F	3500	95,37	95,87	9,6	75	3650	5800

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 F	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 F	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 F	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 F	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 F	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 F	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 F	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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