



REX F SERIES
70 TO 1300 KILOWATTS



HIGH EFFICIENCY HOT WATER BOILER

REX F 70 kW - 1300kW

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.

FEATURES

- **REX F 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 convcave rear plate (rather than a flat surface for a better resistance internal pressure).
- **Cylindrical reverse flame combustion chamber** 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**, protected by easily removable, varnished steel panels.
- **Steel sheet, fiber-ceramic, thermal insulated**, reversible front door, mounted on hinges, easily opened with equipped lever by drilled ferrules.
- **Higher pressures** available upon request

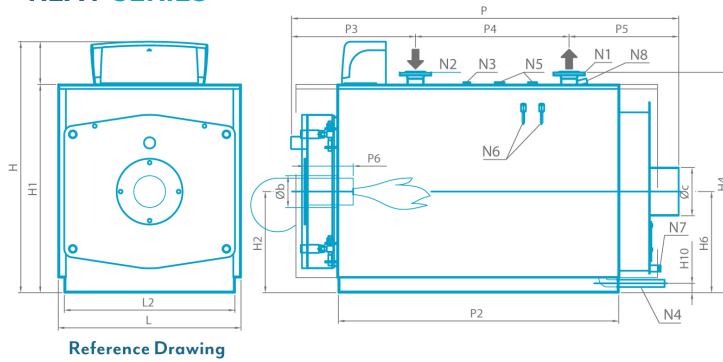
BENEFITS

- 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



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 casing
- Turbolators
- Cleaning brush

CHARACTERISTICS MODEL	NOMINAL POWER TEMP. MEDIUM 70°C	100% 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 7 F	70	94,34	94,80	0,9	8	105	222
REX 8 F	80	94,45	94,70	1,1	10	105	222
REX 9 F	90	94,54	95,00	0,9	13	123	266
REX 10 F	100	94,70	94,80	1,1	16	123	266
REX 12 F	120	94,86	95,10	1,3	23	123	266
REX 15 F	150	95,06	95,70	1,3	35	172	357
REX 20 F	200	95,24	95,30	2,2	63	172	357
REX 25 F	250	94,88	95,38	2,4	98	220	442
REX 30 F	300	95,09	95,59	2,4	50	300	489
REX 35 F	350	95,37	95,60	3,4	67	356	558
REX 40 F	400	95,24	95,40	4,7	38	360	600
REX 50 F	500	95,42	95,70	4,8	60	540	871
REX 62 F	620	95,53	95,90	7,3	92	645	981
REX 75 F	750	95,42	95,92	5,8	55	855	1230
REX 85 F	850	95,40	95,80	8,0	71	855	1230
REX 95 F	950	95,29	95,79	5,9	89	950	1446
REX 100 F	1020	95,42	95,80	4,5	42	1200	1880
REX 120 F	1200	95,31	95,81	6,2	58	1200	1880
REX 130 F	1300	95,31	95,70	7,3	68	1200	1880

DIMENSIONS

Dimensions	H	H1	H2	H4	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	mm	DN/in	DN/in	PN	DN/in	DN/in	DN/in	DN/in	DN/in	DN/in
REX 7 F	1063	853	415	912	415	54,5	756	700	994	630	413	240	341	200-250	130	200	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 8 F	1063	853	415	912	415	54,5	756	700	994	630	413	240	341	200-250	130	200	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 9 F	1030	855	415	912	415	54,5	756	700	1119	755	513	265	341	200-250	130	200	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 10 F	1030	855	415	912	415	54,5	756	700	1119	755	513	265	341	200-250	130	200	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 12 F	1030	855	415	912	415	54,5	756	700	1119	755	513	265	341	200-250	130	200	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 15 F	1080	905	440	962	440	54,5	806	750	1364	1000	513	475	376	200-250	160	250	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 20 F	1080	905	440	962	440	54,5	806	750	1364	1000	513	475	376	200-250	160	250	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 25 F	1080	905	440	962	440	54,5	806	750	1614	1250	513	725	376	200-250	160	250	50	50	6	1"	1"	-	1/2"	1/2"	1/2"
REX 30 F	1180	1005	490	1061	490	54,5	906	850	1614	1250	523	700	391	200-250	180	250	65	65	6	1"	1"	-	1/2"	1/2"	1/2"
REX 35 F	1180	1005	490	1061	490	54,5	906	850	1864	1500	523	980	361	200-250	180	250	65	65	6	1"	1"	-	1/2"	1/2"	1/2"
REX 40 F	1190	1015	500	1095	500	50	946	890	1872	150	2600	850	422	230-280	225	250	80	80	6	1"	1"	1"1/4(1)	1/2"	1/2"	1/2"
REX 50 F	1380	1205	610	1285	610	60	1166	1110	1946	1502	663	850	433	270-320	225	300	80	80	6	1"	1"1/4	1"1/4	1/2"	1/2"	1/2"
REX 62 F	1380	1205	610	1285	610	60	1166	1110	2235	1792	663	1150	422	270-320	225	300	80	80	6	1"	1"1/4	1"1/4	1/2"	1/2"	1/2"
REX 75 F	1510	1335	675	1417	675	60	1296	1240	2247	1753	704	1100	443	270-320	280	350	100	100	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 85 F	1510	1335	675	1417	675	60	1296	1240	2247	1753	704	1100	443	270-320	280	350	100	100	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 95 F	1510	1335	675	1417	675	60	1296	1240	2497	2003	704	1200	593	270-320	280	350	100	100	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 100 F	1660	1485	750	1568	750	60	1446	1390	2477	2003	703	1200	574	270-320	280	400	125	125	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 120 F	1660	1485	750	1568	750	60	1446	1390	2477	2003	703	1200	574	270-320	280	400	125	125	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"
REX 130 F	1660	1485	750	1568	750	60	1446	1390	2477	2003	703	1200	574	270-320	280	400	125	125	6	1"	1"1/4	1"1/2	1/2"	1/2"	1/2"