



REX SERIES
70 TO 1300 KILOWATTS



HOT WATER BOILERS

REX SERIES 70 kW - 1300 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.

FEATURES

- **REX 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 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** 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 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**, 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.

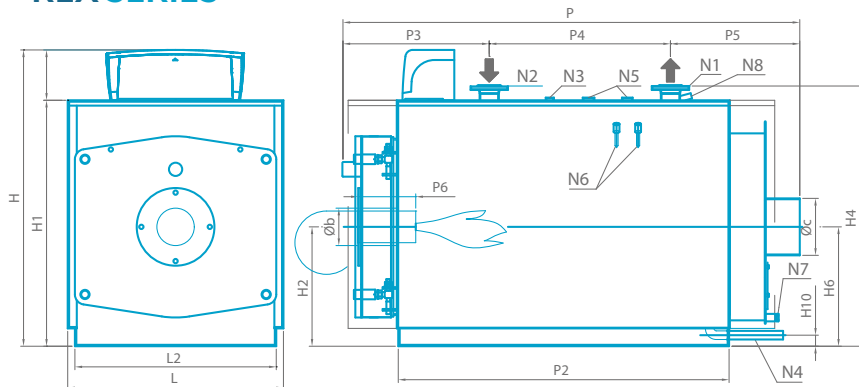
BENEFITS

- 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 European "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 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	WATER CONTENT	WEIGHT TOTAL
REX SERIES	kW	%	%	mbar	lt	kg
REX 7	70	92,11	91,40	0,8	105	216
REX 8	80	91,95	91,50	1,0	105	216
REX 9	90	91,84	91,55	0,8	123	258
REX 10	100	91,74	91,66	1,0	123	258
REX 12	120	92,31	91,45	1,1	123	258
REX 15	150	92,02	91,30	1,2	172	346
REX 20	200	92,59	91,36	1,9	172	346
REX 25	250	92,25	91,70	2,0	220	431
REX 30	300	92,31	91,90	2,0	300	475
REX 35	350	92,35	91,90	2,9	356	542
REX 40	400	92,38	91,80	4,1	360	584
REX 50	500	92,25	91,90	4,2	540	853
REX 62	620	92,26	91,80	6,4	645	963
REX 75	750	92,25	91,80	5,2	855	1205
REX 85	850	92,29	91,80	7,2	855	1205
REX 95	950	92,23	91,70	5,2	950	1417
REX 100	1020	92,22	91,90	4,0	1200	1843
REX 120	1200	92,24	91,80	5,5	1200	1843
REX 130	1300	92,26	91,70	6,5	1200	1843

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
REX7	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"
REX8	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"
REX9	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"
REX10	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"
REX12	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"
REX15	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"
REX20	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"
REX25	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"
REX30	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"
REX35	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"
REX40	1190	1015	500	1095	500	50	946	890	1872	1502	600	850	422	230-280	225	250	80	80	6	1"	1"	1"1/4(1)	1/2"	1/2"	1/2"
REX50	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"
REX62	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"
REX75	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"
REX85	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"
REX95	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"
REX100	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"
REX120	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"
REX130	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"

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