



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 concave 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

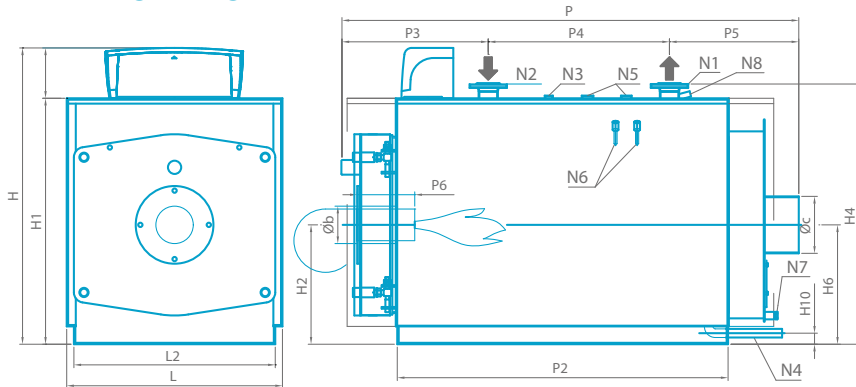
BENEFITS

- 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



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 | 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" |

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