

750kg/h–2,500kg/h

RBO Series

Easy, Energy-Saving, Safe and Excellent Boiler with High Functions

Features

- Top Level of Boiler Efficiency in this capacity
- Round Shape Boiler Structure suitable for long durability
- Stable Supply of High Quality of Steam



| Item | Unit | RBO-750LN | RBO-750PLN | RBO-1000LN | RBO-1000PLN | RBO-1500LN | RBO-1500PLN | RBO-2000LN | RBO-2000PLN | RBO-2500PLN | |
|----------------------------|---------------------------|--|--|---------------|--|---------------|--|-------------------|--|-------------------|-------------------|
| Type of Boiler | — | Once-Through Boiler | | | Small Type Boiler | | | | | | |
| Max. Pressure | MPa(kgf/cm ²) | 0.98 (10) | | | | | | | | | |
| Working Pressure Range | MPa | 0.49~0.88 | | | | | | | | | |
| Hydraulic Testing Pressure | MPa(kgf/cm ²) | 1.58 (16) | | | | | | | | | |
| Equivalent Evaporation | kg/h | 750 | | | 1,000 | | 1,500 | | 2,000 | | 2,500 |
| Heat Output | kW(kcal) | 470 (404,000) | | 627 (539,000) | | 940 (809,000) | | 1,254 (1,080,000) | | 1,567 (1,350,000) | |
| Boiler Efficiency | % | 90 | 95 | 90 | 95 | 90 | 95 | 90 | 95 | | |
| Heating Surface Area | m ² | 4.98 | | | 8.96 | | 9.75 | | 9.89 | | 9.94 |
| Holding Water Volume | L | 90 | | | 150 | | 155 | | 160 | | |
| Type of Burner | — | Forced Draft, Pressure Spray | | | | | | | | | |
| Combustion Control | — | 3-Position (High-Low-OFF) Fan Motor Inverter Control | | | | | | | | | |
| Feed Water Control | — | ON-OFF | | | | | | | | | ON-OFF (Inverter) |
| Ignition | — | AC Spark Ignition | | | | | | | | | |
| Dry Weight | kg | 890 | 1,120 | 1,250 | 1,550 | 1,350 | 1,750 | 1,470 | 1,760 | 2,370 | |
| Weight in Operation | kg | 980 | 1,220 | 1,400 | 1,720 | 1,510 | 1,930 | 1,630 | 1,940 | 2,570 | |
| External Dimensions | Width | mm | 978 | 1,060 | 1,132 | 1,132 | 1,132 | 1,182 | 1,182 | 990 | |
| | Depth | mm | 1,738 | 1,922 | 1,822 | 2,106 | 1,845 | 2,368 | 2,113 | 2,142 | 2,757 |
| | Height | mm | 1,934 | 1,934 | 2,191 | 2,191 | 2,298 | 2,298 | 2,443 | 2,443 | 2,473 |
| Fuel Consumption | Kerosene | L/h | 54.0 | 51.2 | 72.1 | 68.3 | 108.1 | 102.4 | 144.1 | 136.5 | 170.7 |
| | Heavy Oil A | L/h | 51.2 | 48.5 | 68.3 | 64.7 | 102.5 | 97.1 | 136.7 | 129.5 | 161.8 |
| Power Supply | — | AC200V 3φ (50/60Hz)* | | | | | | | | | |
| Available Electricity | kW | 4.3 | | | 5.0 | | 9.0 | | 11.0 | | 11.1 |
| Description | Fan Motor | kW | 1.5 | | | 2.2 | | 5.5 | | 7.4 | |
| | Feed Water Pump Motor | kW | 1.5 | | | | | 2.2 | | | |
| | Oil Pump Motor | kW | | | | 0.25 | | | | 0.4 | |
| | For Control | kW | | | | | | 1.0 | | | |
| Main Wire Size | mm ² | 3.5 | | | 5.5 | | | | 14 | | |
| Power Breaker Capacity | A | 30 | | | 40 | | | | 75 | | |
| Connection Dia. | Feed Water Inlet | — | 20A | | | 25A | | | 32A | | |
| | Oil Inlet | — | 15A | | | 20A | | | | | |
| | Steam Outlet | — | 32A | | 50A | | 65A | | 80A | | |
| | Safety Valve Blow | — | 32A | | 40A | | 50A | | | | |
| | Boiler Water Blow | — | | | | 25A | | | | | |
| | Concentrated Water Blow | — | | | | 15A | | | | | |
| | Chimney Drain | — | 32A | — | 32A | — | 32A | — | 32A | — | — |
| | Economizer Blow | — | — | 20A | — | 20A | — | 20A | — | 20A | 20A |
| | Economizer Drain | — | — | 40A | — | 40A | — | 40A | — | 40A | 40A |
| | Chemical Inlet | — | 15A | | | | | | | | |
| Chimney | mm | φ250 | φ250 Flange Connection or Insertion Connection | φ300 | φ300 Flange Connection or Insertion Connection | φ300 | φ300 Flange Connection or Insertion Connection | φ350 | φ300 Flange Connection or Insertion Connection | φ350 | |

1. The above specifications are based on the following standard values in Japan.

Steam pressure 0.49 MPa (5 kgf/cm²)
 Feed water temp. 15°C
 Feed air temp. 35°C
 Lower heating value Kerosene: 34.8 MJ/L (8,310 kcal/L)
 Heavy Oil A: 36.7 MJ/L (8,770 kcal/L)

2. The following allowance is considered as unavoidable measurement error:

- Measurement error in boiler efficiency ±2% (RBO-750LN, PLN), ±1% (other models expect the left model)
- Measurement error in combustion (input) ±3.5%

3. The above Available Power is value when Feed Water Pump is installed.

4. Specifications are subject to change without prior notice.

* 200—480V can be available by transformer.