# Network


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Product upgrades may be made without notice.
Please address any enquiries concerning this brochure to your nearest Miura distributor or sales office.

| Safety Precautions | In order to use the product safely, please read the Instruction Manual first. |
|---|---|

◎Export Precautions: Products in this brochure which fall under the export controls in the Foreign Exchange and Foreign Trade Act require a license from the Japanese government for export outside of Japan. If you are considering export, please consult your Miura Sales Representative.


SI-2000 OIL INA Rev 1.0
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The Best Partner of
Energy, Water and Environment

MIURA

# Once-Through Steam Boiler

# SI

OIL

## 2000FVS

# Boiler Efficiency of 95%
# SI Steam Boilers With Slim, Compact Design

Miura is recognized as the world's most reliable and respected brand of once-through boilers. Commanding the top share of the market for compact once-through boilers, we are proud of our boilers which demonstrate our commitment to quality and technical prowess, and we are delivering outstanding performance in a wide variety of industries. Environmentally friendly, with high boiler efficiency and low running cost,the Miura SI series is winning the satisfaction of international customers.

## Features

### Easy Status Checking And Operation

The operating conditions of the boiler are clearly displayed using visibly recognizable colours and messages. You can safely and easily control automatic water and steam supply with the press of a switch.

**>> Alarm Function**

An alarm function helps to avoid unintended boiler stoppages. It is particularly useful from the perspective of preventive maintenance.


**>> The Panel Interface Supports Multiple**

The control panel language can be switched between English, simplified Chinese, traditional Chinese, Korean, and Japanese.

**>> Heat Control Function**

Operational data including the volume of steam and blowdown are displayed on the panel, which ensures the ability to maintain safe and stable operating conditions.

### New Functions For Ever Greater Safety

**>> Flame Sensor With Self-Analysis Function**

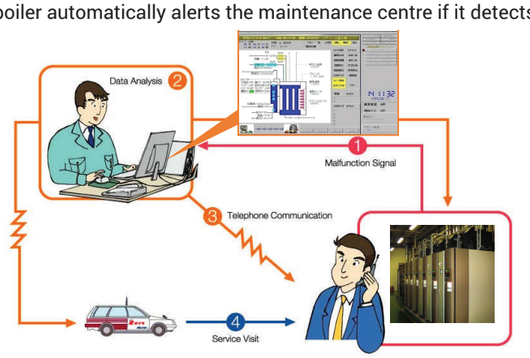
The flame sensor itself is equipped with a function that can detect any malfunction

**>> High-Performance Steam Pressure Switch**

A fail-safe steam pressure switch is used based on the physical phenomenon whereby a magnet loses its magnetic force when heated.

### Online Maintenance Using The Communication Function

The boiler automatically alerts the maintenance centre if it detects a fault.




### Space-Efficiency

Space-saving through close placement
- Significant space-savings
- High-efficiency operation with multiple boilers
- Reduces risk of breakdowns


4 x SI-2000 Boilers (8 ton/h)

SI-2000FVS Front View

## Basic Specification

| MIURA TYPE | | SI-2000FVS | | REMARK |
|---|---|---|---|---|
| ITEM | UNIT | | | |
| **Main Body** | | | | |
| Boiler Type | — | Once-through steam boiler | | |
| Working Pressure | MPa | 0.49—0.88 | | *8, *10 |
| Equivalent Output | kg/h | 2000 | | |
| Actual Output | kg/h | 1680 | | *3 |
| Heat Output | MW {kcal/h} | 1.25 {1078000} | | |
| Boiler Efficiency | % | 95 | | *2 |
| Water Content | L | 138 | | |
| Fuel Consumption | L/h | 136.5 | 129.4 | *1, *2 , *9 |
| | kg/h | 109.2 | 111.3 | |
| Power Supply | — | AC 380 V 50 Hz 3 phase | | |
| Required Wire Diameter for Power Supply | mm² | 5.5 | | *5 |
| Power Circuit Breaker Capacity | A | 60 | | *6 |
| Rated Power Consumption | kW | 11.15 | | |
| Max. Electrical Consumption 50Hz | kVA | 14.9 | | |
| Product Weight | kg | 2320 | | |
| **Connection Diameter** | | | | |
| Steam Outlet | A | 65 | | |
| Safety Valve Outlet | | 50 | | *4 |
| Feed Water Inlet | | 40 | | |
| Boiler Blowdown Outlet | | [25] | | *7 |
| Fuel Inlet | | 20 | | |
| Inspection Port | | Upper: 50, Lower: 50 | | |
| Surface Blowdown Outlet | | [10] | | *7 |
| Dew Drain Outlet | | 50 | | |
| Stack Diameter | φ mm | 300 (400) | | *11 |

*1. The following values are used for the heat output of the fuel.

| Fuel type | Lower heating value | Density |
|---|---|---|
| Kerosene | 43.5 MJ/kg | 0.80 g/cm³ |
| Heavy Oil A | 42.7 MJ/kg | 0.86 g/cm³ |

*2. (1) Boiler efficiency is based on the following.
Operating conditions: Operating pressure 0.49 MPa
Feed water temperature: 15°C
Charge air temperature: 35°C
Land boilers - Heat balancing: JIS B 8222
(2) The error has the following tolerances.
Error for boiler efficiency ±1%, error for fuel consumption ±3.5%

*3. Actual output evaporation is based on feed water temperature 15°C, and steam pressure 0.49 MPa.This boiler is designed for use with feed water at a temperature of 55°C or higher.

*4. The safety valve blow outlet shows the diameter of the elbow that connects to the outlet of the safety valve.

*5. Power supply wire diameter indicates the wire diameter of crosslinked polyethylene insulated PVC sheathed cable (CV).

*6. The power circuit breaker should be an earth leakage circuit breaker with overcurrent protection.

*7. The piping from the surface blowdown outlet is connected to the boiler blowdown.

*8. If the pressure exceeds the working pressure range, steam leak or blowout from the safety valve may occur.
Contact your local Miura office when the steam pressure setting of the boiler exceeds the working pressure range.

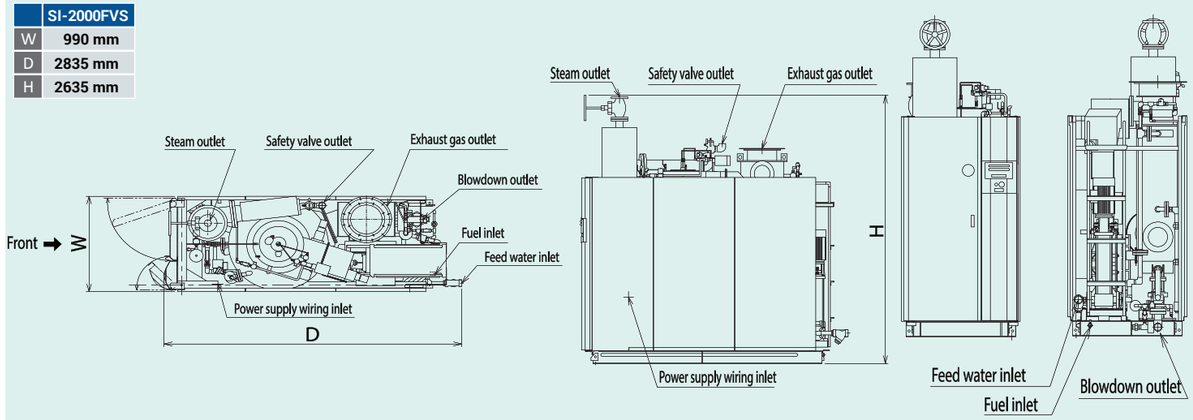
*9. When using Japanese A-type fuel oil, Heavy Oil A Class 1 No.1 is recommended.
Sulfur contents in fuels and dew drops make the inside of the stack corrosive. In addition, when corrosives scatter, it may cause corrosion and contamination of roofs and other areas. Therefore, Heavy Oil A Class 1 No.1 such low-sulfur is recommended.

*10. Install a pressure reducing valve or equivalent when the steam lower than the working pressure range is required.

*11. With a single stack, select a diameter of φ 400 mm. With concentric stack, φ 300 mm is acceptable.

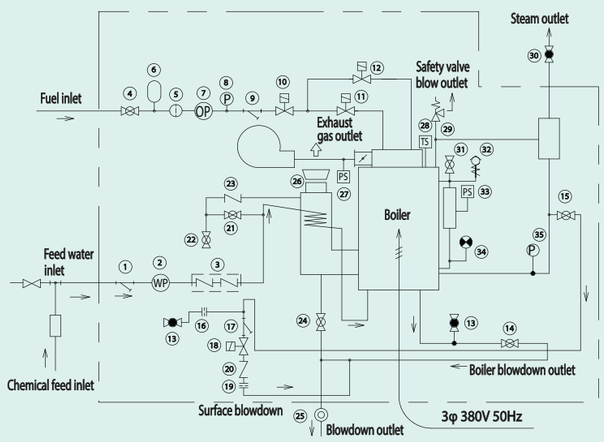
## Overall Dimensions [SI-2000 FVS]

| | SI-2000FVS |
|---|---|
| W | 990 mm |
| D | 2835 mm |
| H | 2635 mm |




*The diagram shows SI-2000 FVS

## Flow Sheet [SI-2000 FVS]




| | | | |
|---|---|---|---|
| 1 | Y-type strainer | 21 | Soot blow valve |
| 2 | Feed water pump | 22 | Leak detection valve |
| 3 | Check valve | 23 | Check valve |
| 4 | Fuel stop valve | 24 | Wash water drain valve |
| 5 | Oil strainer | 25 | Sight glass |
| 6 | Accumulator | 26 | Stack diffuser |
| 7 | Oil pump | 27 | Air pressure switch |
| 8 | Oil pressure gauge | 28 | Steam temperature switch |
| 9 | Y-type strainer | 29 | Safety valve |
| 10 | Shutoff solenoid valve | 30 | Main steam valve |
| 11 | Solenoid valve (low fire) | 31 | Air vent valve |
| 12 | Solenoid valve (high fire) | 32 | Vacuum breaker |
| 13 | Water sampling port | 33 | Steam pressure switch |
| 14 | Boiler blowdown valve | 34 | Pressure sensor |
| 15 | Surface blowdown valve | 35 | Steam pressure gauge |
| 16 | Orifice | | |
| 17 | Y-type strainer | | |
| 18 | Surface blowdown solenoid valve | | |
| 19 | Orifice | | |
| 20 | Check valve | | |