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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.
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The Best Partner of
Energy, Water and Environment

MIURA

Once-Through Steam Boiler

EH OIL

500F • 750F • 1000F • 1000FS



Simple, High Performance Options That Take Full Advantage of Boiler Power

The EH series of oil-fired steam boilers is culmination of considerable research using the expertise and maintenance data that Miura has accumulated over many years. The series combines safety with economy, offering several models that designated to realize a number of environment issues.

Features

High efficiency and improved safety

ω (omega) Flows Construction

The boilers using ω (omega) flows construction which consist of vertically - mounted water tubes sandwiched at the top and bottom between two annular headers. The effective heat transfer surface area is large due to the bigger combustion chamber and heat absorption from contact heat transfer is increased due to a faster combustion gas flow.

New Structural Design

The newly designed boiler construction and combustion gas flow help gain maximum heat transfer performance from a limited heat transfer area which less than 10m². Effective usage is made by the entire heat transfer area, the result is 85% boiler efficiency (for EH-1000FS is 95%). Further, space saving is obtained by the compact design. (compare to previous version)

Higher fuel economy and longer service life

Surface Blowdown

One drawback that small once-through boilers are considered that the tendency for water to become concentrated more quickly compared to fire tube and water tube boilers because of their low water content. Accordingly, blowdown of concentrated water helps keep water concentration below a certain level and prevents alkaline corrosion of the water tube (EH-1000F & EH-1000FS).

Low-Noise Burner

Substantially improved burner combustion performance, Quiet operation and blower noise. The surrounding environment is not affected, allowing operation at all hours of the day or night.

Superior new design for ease of use

Easy Operation, inspection and maintenance due to a simple structural design.



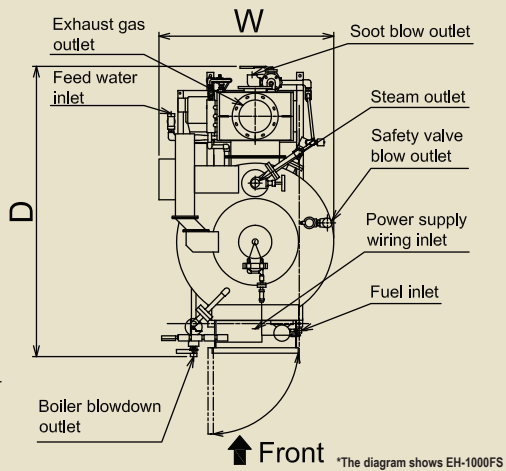
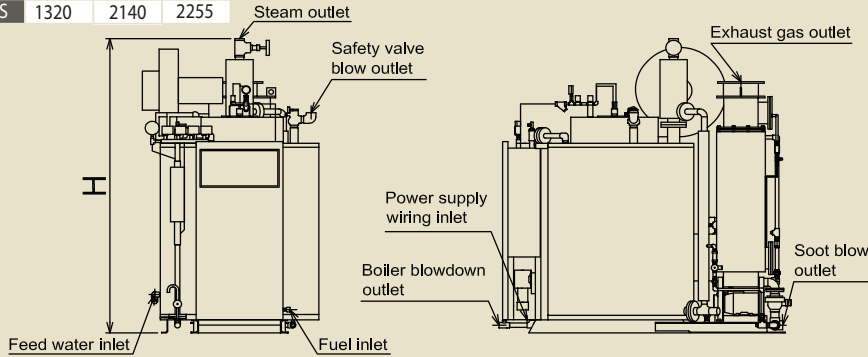
Basic Specification

MIURA TYPE				EH-500F	EH-750F	EH-1000F	EH-1000FS	REMARK
ITEM			UNIT					
Main Body								
Boiler Type			—	Once-through steam boiler				
Working Pressure			MPa	0.49–0.88				*9 , *11
Equivalent Output			kg/h	500	750	1000	1000	
Actual Output			kg/h	419	629	838	838	*3
Heat Output			kW	313	470	627	627	
Boiler Efficiency			%	85			95	*2
Water Content			L	140	175	150	150	
Fuel Consumption	OIL	Kerosene	L/h	38.1	57.2	76.2	68.3	*1, *2 , *10
			kg/h	30.5	45.7	61.0	54.6	
		Heavy Oil A	L/h	36.1	54.2	72.3	64.7	
			kg/h	31.1	46.6	62.2	55.7	
Power Supply			—	AC 380 V 50 Hz 3 phase				
Required Wire Diameter			mm ²	2.0	2.0	2.0	2.0	*6
Power Circuit Breaker Capacity			A	15	20	30	30	*4 , *7
Rated Power Consumption			kW	1.5	3.4	4.2	4.2	*4
Max. Electrical Consumption 50Hz			kVA	3.43	6.15	7.15	7.15	*4
Product Weight			kg	990	1,250	1,420	1,680	
Connection Diameter								
Steam Outlet			A	32	40	50		
Safety Valve Outlet				40		50		*5
Feed Water Inlet				25				*4
Boiler Blowdown Outlet				25				
Fuel Inlet				20				*8
Inspection Port				50				
Surface Blowdown Outlet				—		10	[10]	*12
Stack Diameter			φ mm	250	290	330	250	

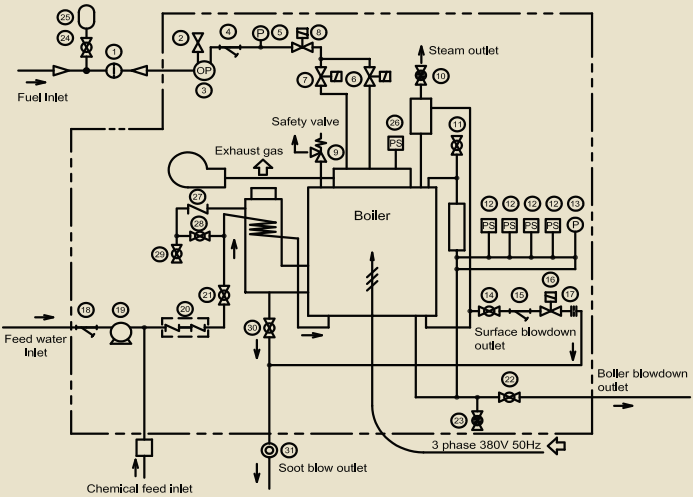
- *1. Heat output for fuel is based on the following values.
- | Fuel type | Lower heating value | Density |
|-------------|---------------------|------------------------|
| Kerosene | 43.5 MJ/kg | 0.80 g/cm ³ |
| Heavy Oil A | 42.7 MJ/kg | 0.86 g/cm ³ |
- *2. (1) Boiler efficiency is based on the following.
Operating Conditions :
Operating pressure 0.49 MPa (5 kgf/cm²),
feed water temperature 15°C, supply 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 a feed water temperature 15°C, and steam pressure 0.49 MPa.
- *4. If the feed water temperature is 85°C or higher, the high temperature water specification must be used.
- *5. The safety valve outlet shows the diameter of the elbow that connects to the outlet of the safety valve.
- *6. Power supply wire diameter indicates the wire diameter of crosslinked polyethylene insulated PVC sheathed cable (CV).
- *7. The power circuit breaker must be an earth leakage circuit breaker (with overcurrent protection).
- *8. A copper joint 10 A and oil strainer 10 A are installed on the upstream side of the fuel inlet for each model.
- *9. Install a pressure reducing valve or equivalent when the steam lower than the working pressure range is required.
- *10. When using Heavy Oil A, JIS 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, JIS Class 1 No. 1 such low-sulfur is recommended.
- *11. 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.
- *12. The Connections with values in [] are connected to the Soot blow drain outlet.
S Specification model is designed for use with feed water at a temperature of 55°C or higher.
For the sake of safety, an earthquake detector should also be installed.

Overall Dimensions [EH-500F - 750F - 1000F - 1000FS]

	W	D	H
EH-500F	1140	1505	2055
EH-750F	1180	1705	2055
EH-1000F	1320	1915	2255
EH-1000FS	1320	2140	2255



Flow Sheet [EH-500F - 750F - 1000F - 1000FS]



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

*The diagram shows EH-1000FS