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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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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. Further, space saving is obtained by the compact design. (compare to previous version)

Higher fuel economy and longer service

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 (1000F).

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.



EH - 500F Front View

Basic Specification

MIURA TYPE		EH-500F	EH-750F	EH-1000F	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			
Actual Output	kg/h	419	629	838	*3		
Heat Output	kW	313	470	627			
Boiler Efficiency	%	85			*2		
Water Content	L	140	175	150			
Fuel Consumption	OIL	Kerosene	L/h	38.1	57.2	76.2	*1, *2, *10
			kg/h	30.5	45.7	61.0	
		Heavy Oil A	L/h	36.1	54.2	72.3	
			kg/h	31.1	46.6	62.2	
Power Supply	—	AC 380 V 50 Hz 3 phase					
Required Wire Diameter	mm ²	2.0	2.0	2.0	*6		
Power Circuit Breaker Capacity	A	15	20	30	*4, *7		
Rated Power Consumption	kW	1.5	3.4	4.1 (4.2)	*4		
Max. Electrical Consumption 50Hz	kVA	3.3	6.15	7.01 (7.15)	*4		
Product Weight	kg	990	1250	1420			
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]			
Stack Diameter		φ mm	250	290	330		

*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.

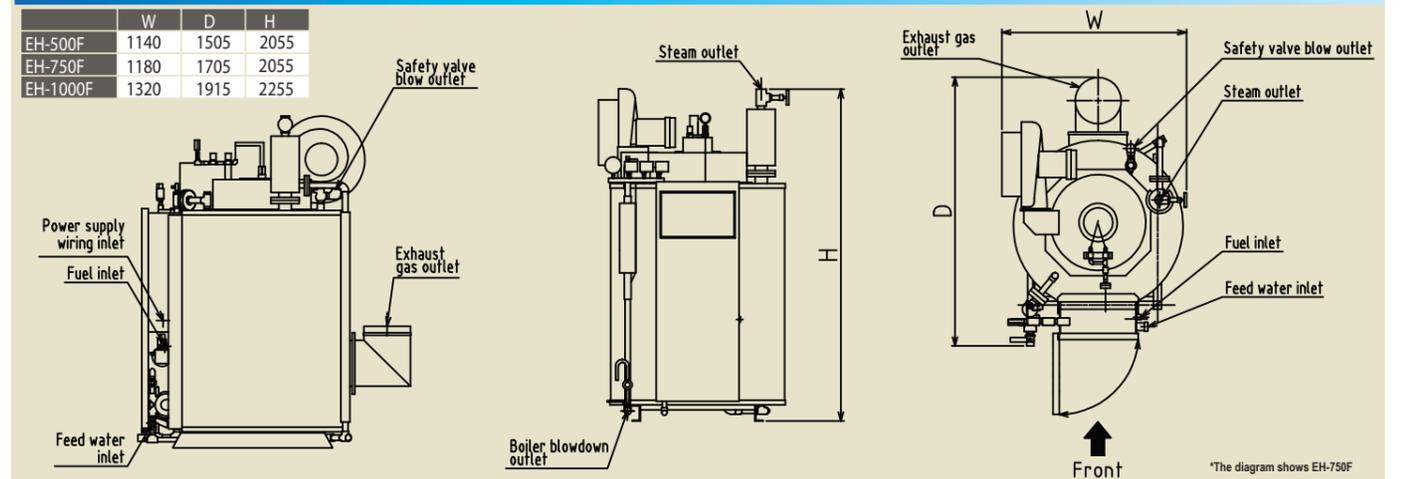
Sulfur contents in fuels and dew drops make the inside of the stack corrosive. In addition, when corrosives scatter, it may cause corrosion and contamination of roofs and other areas.

Therefore, JIS Class 1 No. 1 such low-sulfur is recommended.

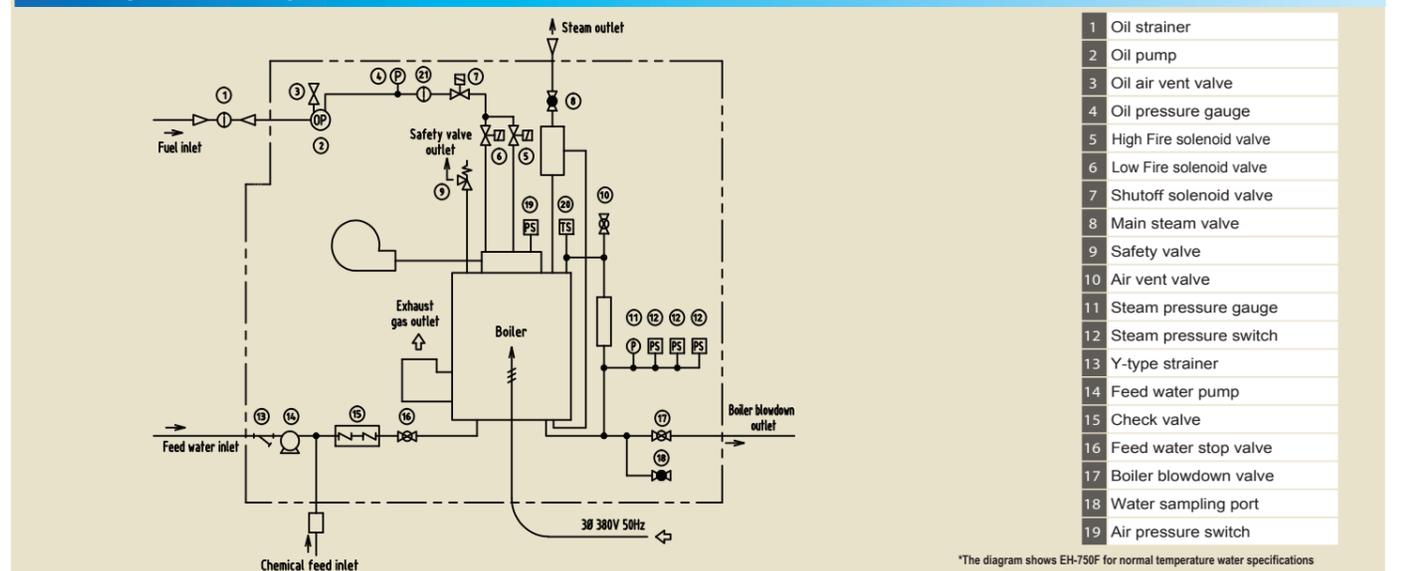
*11. If the pressure exceeds the working pressure range, steam leak or blowout from the safety valve may occur. Contact your local Miura office when the steam pressure setting of the boiler exceeds the working pressure range for the sake of safety, an earthquake detector should also be installed.

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

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



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



- 1 Oil strainer
- 2 Oil pump
- 3 Oil air vent valve
- 4 Oil pressure gauge
- 5 High Fire solenoid valve
- 6 Low Fire solenoid valve
- 7 Shutoff solenoid valve
- 8 Main steam valve
- 9 Safety valve
- 10 Air vent valve
- 11 Steam pressure gauge
- 12 Steam pressure switch
- 13 Y-type strainer
- 14 Feed water pump
- 15 Check valve
- 16 Feed water stop valve
- 17 Boiler blowdown valve
- 18 Water sampling port
- 19 Air pressure switch

*The diagram shows EH-750F for normal temperature water specifications