Network

Overseas affiliated companies

Please address inquiries about Miura products to the nearest Miura Group company.

[JAPAN] MIURA CO., Ltd.
7 Horie, Matsuyama, Ehime 799-2696, Japan
TEL 089-979-7123
FAX 089-979-7101

[CHINA] MIURA INDUSTRIES (SUZHOU) Co., Ltd.
中華人民共和国蘇州市蘇州工業園区南前巷8番 215024
No. 8 Nanqian Lane, Suzhou Industrial Park, Suzhou, People's Republic of China. 215024
TEL 86-512-8816-8892 FAX 86-512-8816-8893
http://www.miura-cn.com

[TAIWAN] MIURA BOILER Co., Ltd.
台北市信義區基隆路2段133號4F 11053
4F NO.11053 KEELUNG.RD, SEC.2 133 TAIPEI TAIWAN
TEL 886-2-2735-9991 FAX 886-2-2735-9832
http://www.miuraz.com.tw

[SINGAPORE] MIURA SOUTH EAST ASIA Pte. Ltd.
No.3 Soon Lee Street , #03-36/37/38, Pioneer Junction, Singapore 627606
TEL 65-6465-1147 FAX 65-6465-1148

[THAILAND] MIURA INDUSTRIES (THAILAND) Co., Ltd.
32/33 12th Floor, Zone C Unit A, Sino-Thai Tower, Sukhumvit 21 Road (Soi Asok)
Klongtoey-Nua, Wattana, Bangkok 10110, Thailand
TEL 66-2-661-6354 FAX 66-2-661-7461

[KOREA] KOREA MIURA Co., Ltd.
大韓民国ソウル特別市永登浦區京仁路775,3-701 文來洞3街, ACE HIGHTECH CITY
701-1, 3-Dong, ACE Hightech , 775, Gyeongin-ro, Yeongdeungpo-gu, 150-972 Seoul
TEL 82-2-2671-2410 FAX 82-2-2671-0019
http://www.miura.co.kr

[CANADA] MIURA CANADA Co., Ltd.
8 Copernicus Boulevard, Brantford, Ontario N3P 1Y4 Canada
TEL 1-519-758-8111 FAX 1-519-758-5294
http://www.miuraboiler.com

[U.S.A.] MIURA NORTH AMERICA Inc.
16016 E Foothill Blvd. Irwindale, CA 91702-2812 U.S.A.
TEL 1-626-305-6622 FAX 1-626-334-7430
http://www.miuraboiler.com

[U.S.A.] MIURA MANUFACTURING AMERICA Co., Ltd.
2200 Steven B, Smith Blvd., Rockmart, GA 30153 U.S.A.
TEL 1-678-685-0929 FAX 1-678-685-0930

[MEXICO] MIURA BOILER MEXICO, S.A. DE C.V.
Calle Hacienda de Temixco, nurmero.28, oficina A4, Colonia Bosque de Echegaray
Municipio de Naucalpan de Juarez. C.P. 53310, Estado de Mexico
TEL 52-55-5360-5939 FAX 52-55-5373-8647

[BRAZIL] MIURA BOILER DO BRASIL, LTDA.
Rua Maria David Ganen, 50 Jardim Planalto - Jundiai, 13211-220 - S.P. Brazil
TEL 55-11-3379-7434 FAX 55-11-3379-7435

PT. MIURA INDONESIA
Jl. Harapan Raya Lot KK 10. Karawang International Industrial City (KIIC)
Karawang 41361, Jawa Barat, Indonesia
TEL 62-21-2936-9977 FAX 62-267-863-4888
http://www.miura.co.id

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.

EH - OIL INA Rev 2.1
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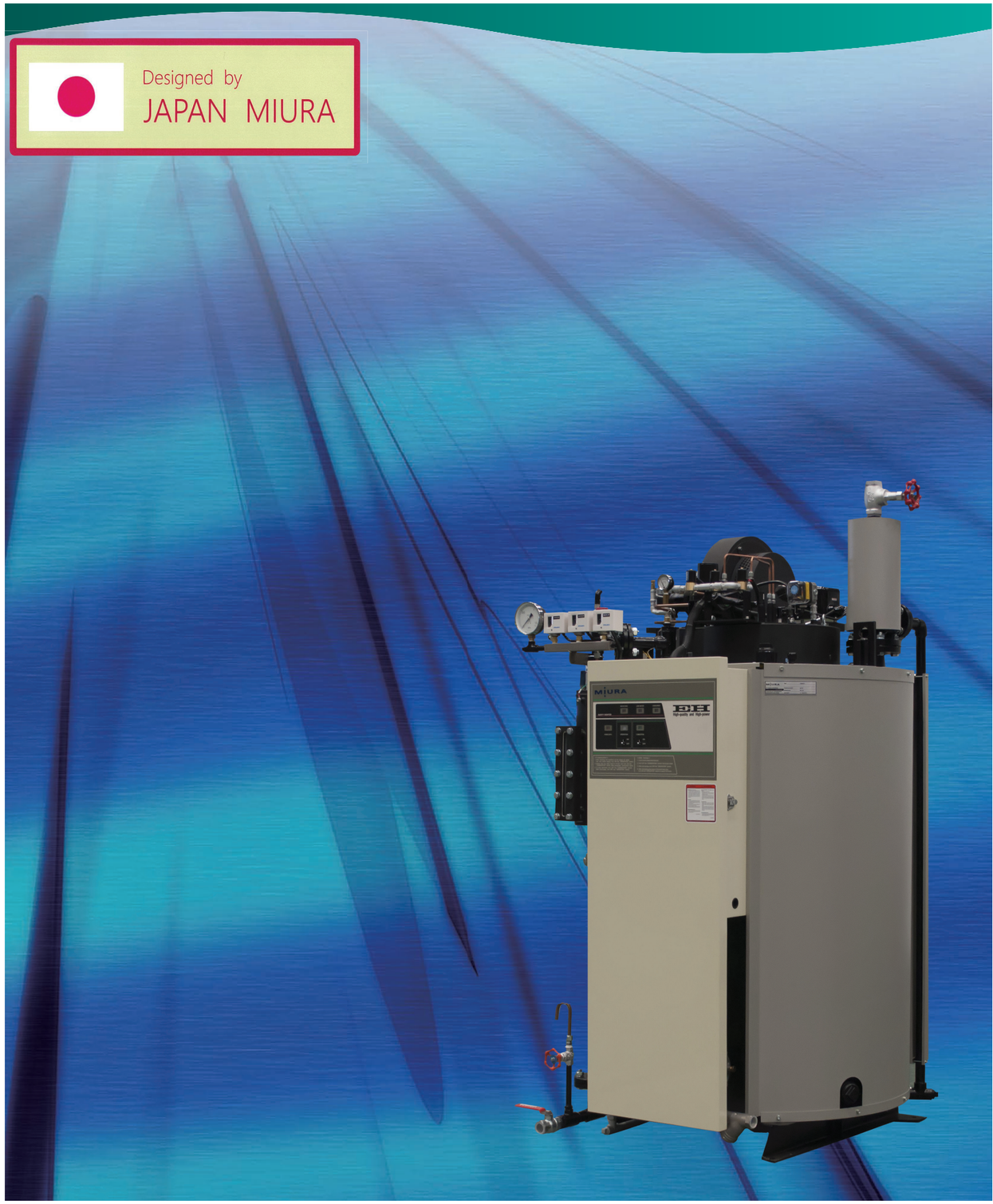
The Best Partner of
Energy, Water and Environment

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 $10m^2$. 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.

EH - 500F Front View

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/cm^2},
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.

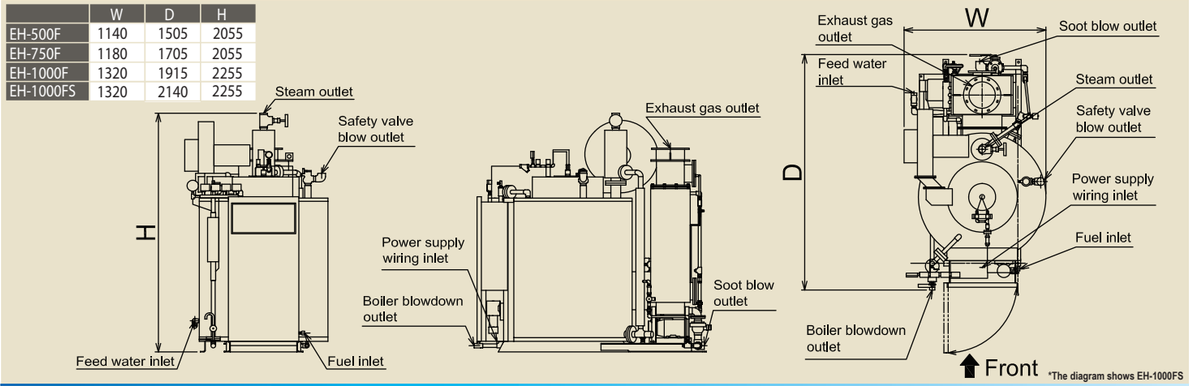
*10. When using Heavy Oil A, JIS Class 1 No. 1 is recommended. Sulfur contents in fuels and dew drops make the inside of the stack corrosive. In addition, when corrosives scatter, it may cause corrosion and contamination of roofs and other areas. Therefore, JIS Class 1 No. 1 such low-sulfur is recommended.

*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.

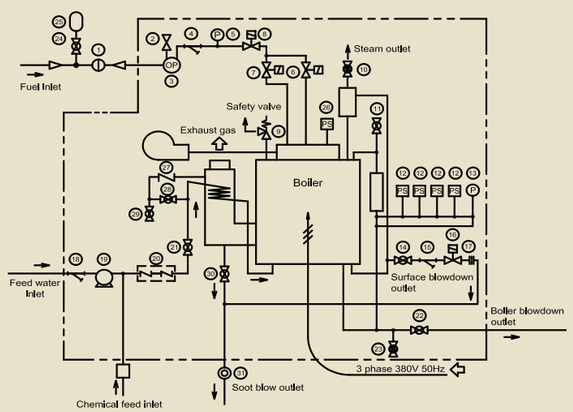
Overall Dimensions [EH-500F - 750F - 1000F - 1000FS]

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



*The diagram shows EH-1000FS

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