



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.

中華人民共和國蘇州市蘇州工業園區南前巷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

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>

[KOREA] KOREA MIURA Co., Ltd.

大韓民國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, numero.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

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.



Stable, High-Quality Steam

Greater Boiler Efficiency Result In Reduced Running Costs

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. We know that the EI series will fully satisfy our overseas customers in term of environmental friendliness, running cost, and steam quality.

Features

Provide Stable And High-Quality Steam

Miura developed a new feed water control method called the twin water level control method. This method is for keeping the best ebullition condition and the equalizing head effect in the water tubes by changing the water level automatically as the combustion load

Space Saving

Being once-through boilers, the Miura EI Series are more compact than former series. This compactness enables the user to make full use of limited space and renders the boiler room spacious.

ω (omega) Flows Structure That Enhances Boiler Efficiency

The Miura EI 1500 - 2000 Series are composed of upper and lower headers and a group of vertically mounted water tubes which is wedged at both ends. This computer designed boiler result in a more spacious heat transfer area and heat absorption through the contract-heat transfer area is greatly enhanced. The combustion gas, flows into the chamber then spread out the left and right side of the chamber where water tubes are arranged uniformly.

Steam Available Use Only 4 Or 5 Minutes After Ignition

It takes only 4 or 5 minutes after ignition to start producing steam at a predetermined pressure, which allows quickly get to work on operations.

Quite Operation

The operating noise will not disturb the operator or any person working nearby in the morning or late at night.



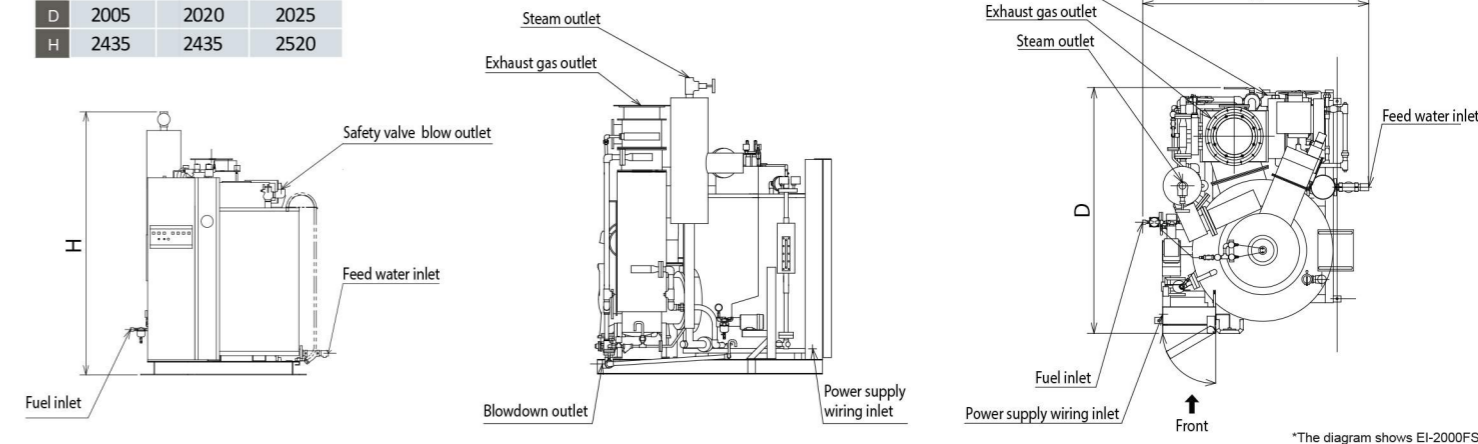
* Front View EI EI-1500FH

Basic Specification

MIURA TYPE		EI-1500FH	EI-1500FS	EI-2000FS	REMARKS		
ITEM	UNIT	Oil (Kerosene / Heavy Oil A)					
Main Unit							
Boiler Type	----	Once-through steam boiler					
Working Pressure Range	MPa	0.49 - 0.88					
Equivalent Output	kg/h	1500		2000			
Heat Output	kW(kcal/h)	940(808500)					
	MW(kcal/h)	----			1.25(1078000)		
Boiler Efficiency	%	90	95		*2		
Water Content	L	151		144			
Power Supply	----	AC 380 V 50 Hz 3 phase					
Fuel Consumption	Oil	Kerosene	L/h	108.0	102.4	136.5	*1, *2, *10
			kg/h	86.4	81.9	109.2	
		Heavy Oil A	L/h	102.4	97.0	129.4	
	kg/h	88.1	83.5	111.3			
Required Wire Diameter for Power Supply	mm ²	5.5			*6		
Power Circuit Breaker Capacity	A	60			*4, *7		
Rated Power Consumption	kW	10.2		10.3	*4		
Max. Electrical Consumption 50Hz	kVA	13.5		13.7	*4		
Product Weight	kg	2190	2440	2530			
Connection Diameter							
Steam Outlet		65					
Safety Valve Outlet		50			*5		
Feed Water Inlet		32		40	*4		
Boiler Blowdown Outlet		25	[25]		*8		
Fuel Inlet		20					
Inspection Port		50					
Surface Blowdown Outlet		10	[10]		*8		
Dew Drain Outlet		----		50			
Stack Diameter	φ mm	360	300	300 (400)	*12		

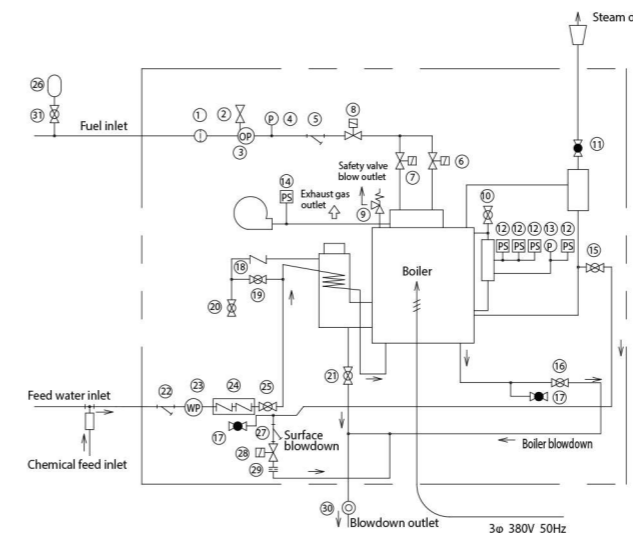
Overall Dimensions [EI 1500FH - EI 1500FS - EI 2000FS]

	EI-1500FH	EI-1500FS	EI-2000FS
W	1840	1840	1875
D	2005	2020	2025
H	2435	2435	2520



*The diagram shows EI-2000FS

Flow Sheet [EI 1500FH - EI 1500FS - EI 2000FS]



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

*The diagram shows EI-2000FS for normal temperature water specifications

*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/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
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 is based on 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. The connections with values in [] are connected to the soot blow drain outlet.

*9. Install a pressure reducing valve or equivalent when the steam lower than 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 corrosive seatter, 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. With a single stack, select a diameter of φ400. With concentric stack, φ300 mm is acceptable.

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.