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Overseas affiliated companies

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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.

EI - GAS INA Rev 1.0
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The Best Partner of
Energy, Water and Environment

MIURA

Once-Through Steam Boiler

EI

13A
LPG

1000 GH • 1500 GH • 1000 GS • 1500 GS • 2000 GU

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. For example, Miura EI-1000 is 22% smaller than the former boiler which has the same equivalent output, and i ts required floor area is only 2.5 m² . 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 Effciency

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 distrub the operator or any person working nearby in the morning or late at night.

* Front View EI 1000GH

Basic Specification

MIURA TYPE			EI-1000GH	EI-1000GS	EI-1500GH	EI-1500GS	EI-2000GU	REMARKS
ITEM	UNIT		LPG (Propane, Butane) / LNG					
Main Unit								
Boiler Type	-----		Once-through steam boiler					
Working Pressure Range	MPa		0.49 - 0.88					*9, *10
Equivalent Output	kg/h		1000		1500		2000	
Heat Output	kW{kcal/h}		627{539000}		940{808500}		-----	
	MW		-----				1.25{1078000}	
Boiler Efficiency	%		90	95	90	95	96	*2
Water Content	L		130		151		144	
Fuel Consumption	Natural Gas (13A)		Nm^3/h	61.7	58.5	92.6	87.7	115.8	
	LPG	(Propane)	Nm^3/h	26.7	25.3	40.1	38.0	50.1	
			kg/h	54.0	51.2	81.0	76.8	101.3	*1, *2, *6
		(Butane)	Nm^3/h	21.0	19.9	31.6	29.9	39.5	
			kg/h	54.8	51.9	82.3	77.9	102.8	
Power Supply	-----		AC 380 V 50 Hz 3 phase					
Required Wire Diameter for Power Supply	mm^2		2.0		5.5			*7
Power Circuit Breaker Capacity	A		30		50			*4, *8
Rated Power Consumption	kW		3.9		9.9			*4
Max. Electrical Consumption 50Hz	kVA		6.6		13.1			*4
Product Weight	kg		1490	1620	2180	2390	2730	
Connection Diameter								
Steam Outlet	A		50		65			
Safety Valve Outlet					50			*5
Feed Water Inlet			25		32		40	*4
Boiler Blowdown Outlet					25			
Fuel Inlet			50		40			
Inspection Port					50			
Surface Blowdown Outlet					10			
Dew Drain Outlet					-----		25	
Stack Diameter	φ mm		330	250	360	300		

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

Fuel type		Lower heating value
Natural Gas (13A)		40.6 MJ/m3N
LPG	(Propane)	93.7 MJ/m3N (46.4 MJ/kg)
	(Butane)	118.9 MJ/m3N (45.7 MJ/kg)

*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.

*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. The gas supply pressure should be set within the appropriate range as shown below. (Applicable both during operation and when stopped).

MODEL	Natural Gas (13A)	LPG
EI-1000GH/GS	2.45 ± 0.49 kPa	2.75 ± 0.49 kPa
EI-1500GH/GS	9.81 to 19.6 kPa	9.81 to 19.6 kPa
EI-2000GU	14.7 to 19.6 kPa	9.81 to 19.6 kPa

*7. Required wire diameter for power supply indicates the wire diameter of crosslinked polyethylene insulated PVC sheathed cable (CV).

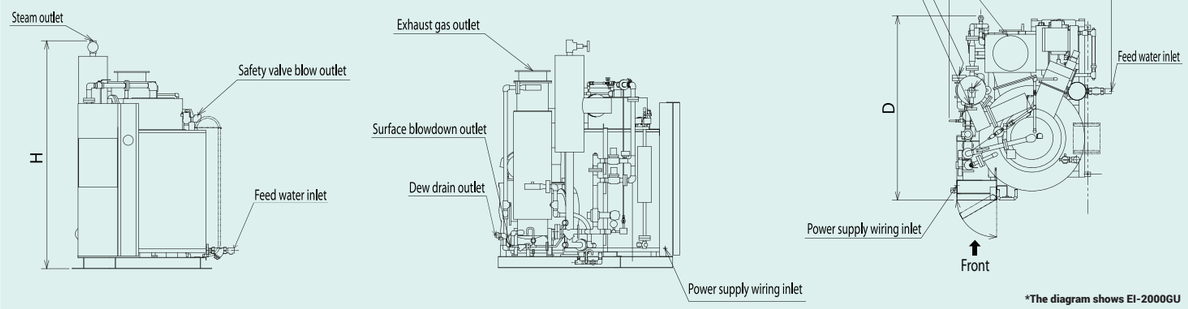
*8. The power circuit breaker must be an earth leakage circuit breaker (with overcurrent protection).

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

*10. If the pressure exceeds the working pressure range, steam leak or blowout from 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 a gas leakage alarm and earthquake detector should also be installed together with this equipment.

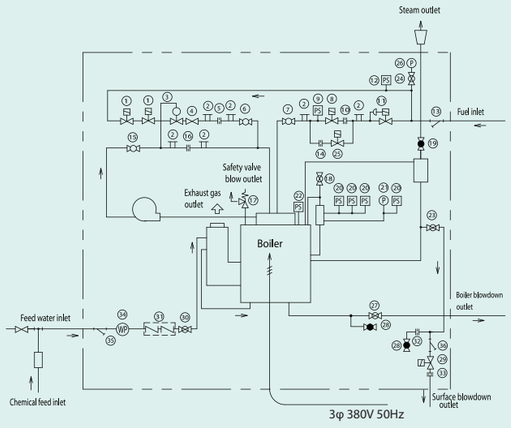
Overall dimensions [EI 1000GH - 1000GS - 1500GH - 1500GS - 2000GU]

	EI-1000G	EI-1000GS	EI-1500G	EI-1500GS	EI-2000GU
W	1310	1310	1735	1735	1795
D	1910	1910	2005	2005	2040
H	2530	2530	2435	2435	2520



*The diagram shows EI-2000GU

Flow sheet [EI 1000GH - 1000GS - 1500GH - 1500GS - 2000GU]



1	Pilot gas solenoid valve	19	Main steam valve
2	Pressure test port	20	Steam pressure switch
3	Equalizing valve	21	Steam pressure gauge
4	Pilot gas flow control valve	22	Air pressure switch
5	Pilot gas orifice	23	Surface blowdown valve
6	Pilot gas valve	24	Ball valve
7	Main gas valve	25	Main gas solenoid valve
8	Main gas solenoid valve	26	Micro pressure gauge
9	Gas pressure switch	27	Boiler blowdown valve
10	Main gas orifice	28	Water sampling port
11	Emergency shutoff valve	29	Surface blowdown solenoid valve
12	Ggas pressure switch	30	Feed water stop valve
13	Gas strainer	31	Check valve
14	Main gas orifice	32	Orifice
15	Air flow control valve	33	Orifice
16	Air orifice	34	Feed water pump
17	Safety valve	35	Y-type strainer
18	Air vent valve	36	Y-type strainer

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