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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.

EX- 500 750 INA Rev 1.0

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Safety Precautions In order to use the product safely, please read the Instruction Manual first.

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Best Seller Models





Once-Through Steam Boiler





The EX Models are fully equipped with all of the functions Demanded by a Boiler

The EX Series of gas-fired steam boilers is the culmination of considerable research using the expertise and maintenance data that Miura has accumulated over many years. Establishes new standards of style, safety and durability.

Features

Reliable control for safe operation

Water Tube Temperature Sensor

Constant sensor monitoring of water tube temperature. If a water tube exceeds the prescribed temperature, combustion will be stops automatically.

Blowdown Alarm Timer

Blowdown alarm timer for conducting boiler water blowdown at appropriate times. Notification of blowdown time based on boiler combustion time (high fire conversion time).

Concentration (Conductivity) Sensor

Constant sensor monitoring of boiler water concentration. Supplies high-quality steam as water concentration is kept constantly through automatic discharge of water from the bottom of separator if the set concentration is exceeded.

Higher fuel economy and longer service

Twin Water Level Control

Utilizes twin water level control to prevent thermal stress and alkaline corrosion at the top of the water tubes. As well as typical water level control, it directly detected the water level inside the tubes with a compensation electrode and undertakes compensation control of the water level at start up and at low operating loads.

Header Separator and Cyclone Separator

Primary steam separation with Miura's proprietary separator inside the header. Secondary separation of the steam with the cyclone separator provides high-quality steam. Carry over due to sudden load cariations can be firmly controlled with the two separators.

EX-500GH FRONT & SIDE VIEW

[EX-750GH FRONT & SIDE VIEW]

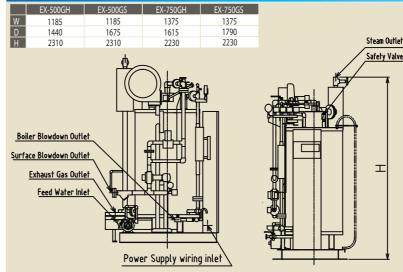




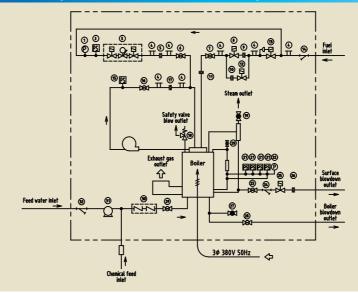


Basic Specification								
MIURA TYPE				EX - 500GH	EX - 500GS	EX - 750GH	EX - 750GS	REMARK
ПЕМ			UNIT					
MAIN UNIT								
Boiler Type			_	Once-through steam boiler				
Working Pressure			MPa	0.49-0.88			*9, *10	
Equivalent Output			kg/h	500	500	750	750	
Actual Output			kg/h	419	419	629	629	*3
Heat Output			kW {kcal/h}	313 {269500}	313 {269500}	470 {404300}	470 {404300}	
Boiler Efficiency			%	90	94	90	94	*2
Water Content			L	73	73	107	107	
	Natural G	as (13A)	Nm³/h	30.8	29.5	46.3	44.3	*1, *2, *6
		(Propane)		13.3	12.8	20.0	19.2	
Fuel Consumption	LPG	(Fropane)	kg/h	27.0	25.8	40.5	38.8	
	LFG	(Butane)	Nm³/h	10.5	10.0	15.8	15.1	
		(Butane)	kg/h	27.4	26.2	41.1	39.4	
Power Supply			-	AC 380 V 50 Hz 3 phase				
Required Wire Diameter for Power Supply		mm²	2			*7		
Power Circuit Breaker Capacity			Α	15	15	20	20	*4, *8
Rated Power Consumption			kW	1.7	1.7	3.2	3.2	*4
Max. Electrical Consumption 50Hz			kVA	3.7	3.65	5.7	5.80	*4
Product Weight		kg	820	970	1120	1320		
Connection Diameter								
Steam Outlet				32	32	40	40	
Safety Valve Outlet				40			*5	
Feed Water Inlet				25			*4	
Boiler Blowdown Outlet			A	25				
Fuel Inlet			Ŷ	40				
Inspection Port				50				
Surface Blowdown Outlet				[10]				
Stack Diameter			φmm	250	250	290	250	

Overall Dimensions [EX-500GH - 500GS - 750GH - 750GS



Flow Sheet [EX-500GH - 500GS - 750GH - 750GS]



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

rucrupe		Lower neuting value		
Natural Gas (13A)		40.6 MJ/m ³ N		
LPG	(Propane)	93.7 MJ/m ³ N (46.4 MJ/kg)		
	(Butane)	118.9 MJ/m ³ N (45.7 MJ/kg)		

*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 feed water temperature 15°C, and steam pressure 0.49 MPa.

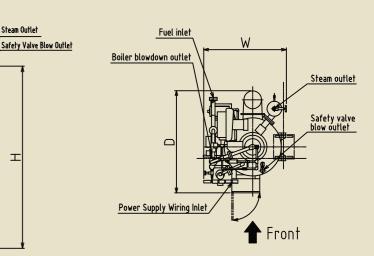
*4. If the feed water temperature is 85°C or higher, the high temperature water specification must be used.

- *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 duirng operation and when stopped).

Model	Natural Gas (13A)	LPG		
EX - 500GH				
EX - 500GS	1.96 ± 0.49 kPa	2.75 ± 0.49 kPa		
EX - 750GH	1.50 ± 0.45 Ki a	2.75 ± 0.45 Ki a		
EX - 750GS	1			

- 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.

Contact your local Miura Office when the steam pressure setting of the boiler exceeds the working pressure range.



*The diagram shows EX-500GH

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

*The diagram shows EX-500GH for normal temperature water specifications

^{*10.} If the pressure exceeds the working pressure range, steam leak or blowout from the safety valve may occur.