

Z BOILER

EH-500F·750F·1000F·1500X



MIURA CO., LTD.



The Urban Power

The small-size once-through boiler, EH series, is launched with challenging to the ultimate heat efficiency by MIURA, the heat expert.

This is truly ideal boiler to guarantee the safety and economical performances in your living amenities.

EXCELLENT STRUCTURE

In the heat transfers to the boiler proper, there are two types such as the radiation heat transfer, directly receiving a heat generated in combustion, and the contact heat transfer, receiving a heat from combustion gas flow in the boiler proper. Under the limited condition, the heat transfer area is below 10m, we have designed the innovative boiler proper structure and combustion gas flow to produce the maximum heat transfer performance. The amazing boiler efficiency achieved 85%, because of an effective use of the heat transfer area. Our boilers significantly contribute to the energy conservation.

Supporter



SUPREME TECHNOLOGY AND QUALITY

We are proud of the severely selected steel made boiler proper and originally designed and manufactured burners, blowers, feed water pumps and so on.

Our design and manufacturing process made under the perfect quality control system creates the world famous quality boilers.

"SAVE SPACE," BECAUSE OF NO MORE HUGE BOILER ROOM SPACE NEEDED

Z boiler EH series reborn more compact than the conventional types due to the technology improvement achieved and realized the effective space utilization with a smaller boiler room revolution.

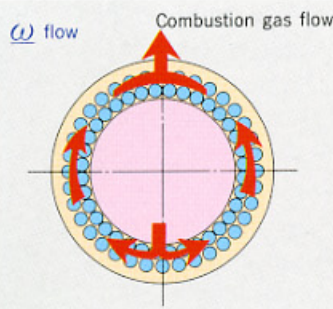
COMFORTS AND AMENITIES GUARANTEED



ω (omega) flow structure multiplies the boiler efficiency.

The MIURA Z boiler EH series is composed of upper and lower headers and a group of vertically mounted water tubes which are smaller at both ends. The area of the effective radiation heat transfer is wider due to the wide combustion room, and the heat absorption from the contact heat transfer became more effective by the faster combustion gas flow rate. The combustion gas flow splits right and left among water tubes and flows to the rear chimney stand.

ω (omega) flow combustion gas flow



Soot cleaning system

Soot Cleaner is equipped to remove the soot which is a deadly foe of the boiler efficiency. This equipment truly minimizes the boiler efficiency deterioration and realizes the economical fuel cost and the boiler life longer.

The quick steam generation in only 4-5 minutes

The steam of required pressure is supplied in only 4 to 5 minutes after ignition. In addition, this type is equipped a high performance steam separator to supply the best steam.

Condensation alarm equipped (EH-1000F and 1500X applied)

It is thought that a small-size once-through boiler tends to condense in a shorter time compared with flue and smoke tube and water tube boilers because of the

limited water content. However, the condensation alarm equipped boiler helps to keep the condensation below a certain rate and prevents from the caustic attack (Alkalinity Corrosion) of water tubes.

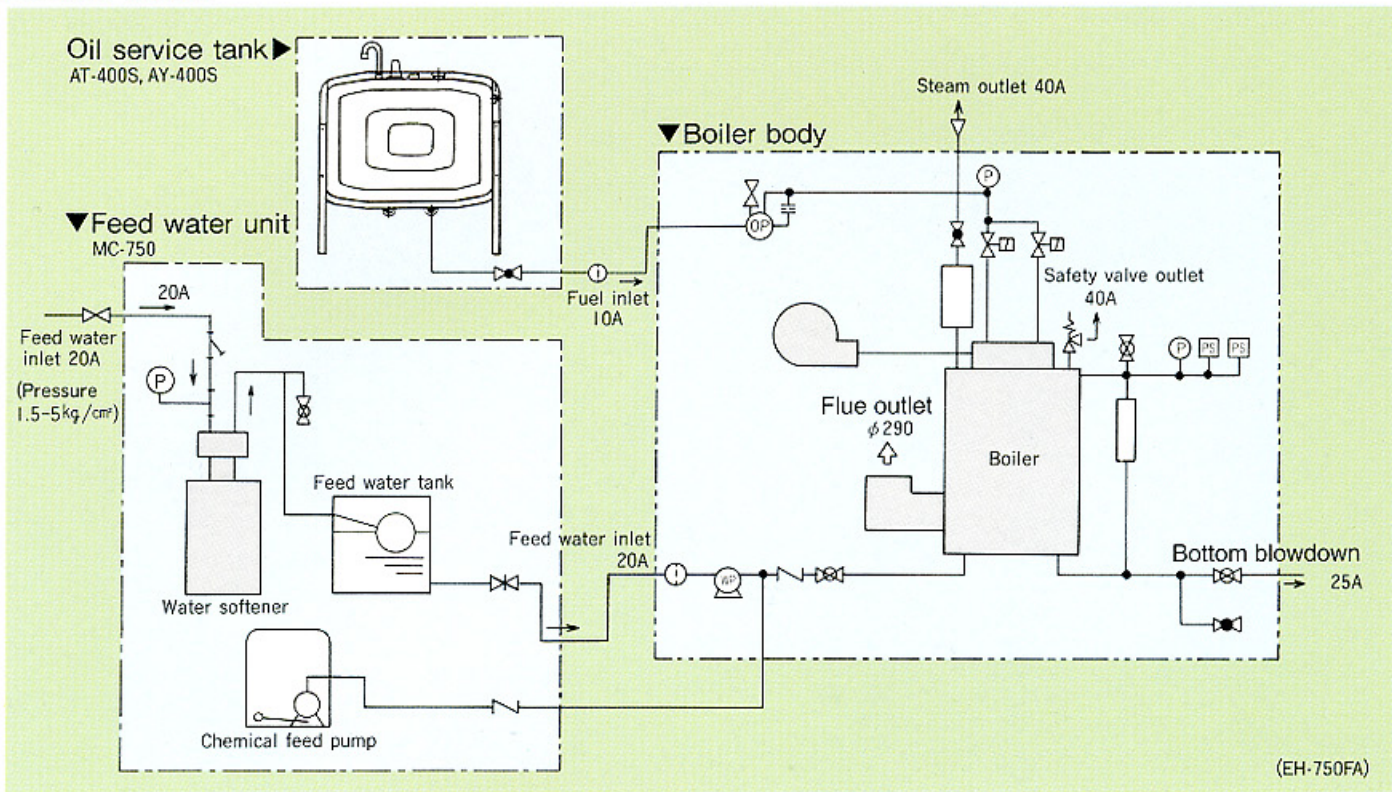
Quiet operation

The drastic burner combustion performance improvement made an extremely quiet operation as well as the blower noise. Here, no more worrying about operations doing in early morning or night time.

Easy to operate

Because the EH series is once-through boiler, anyone can operate it with just a little training by MIURA. No special license or test is required. Even a once a year safety inspection is not needed. With just a little care, maintenance costs and time waste are kept to a minimum.

FLOW SHEET



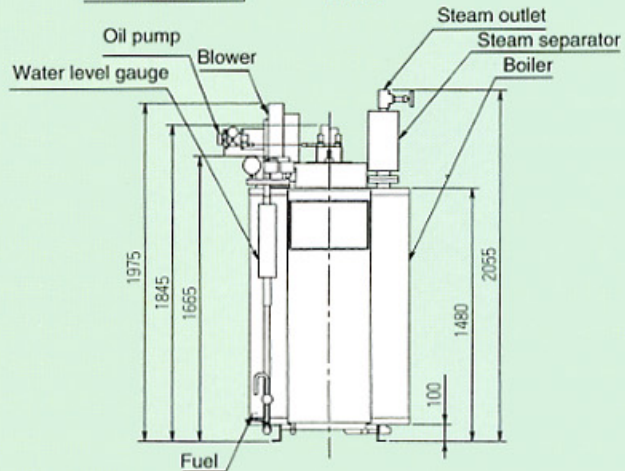
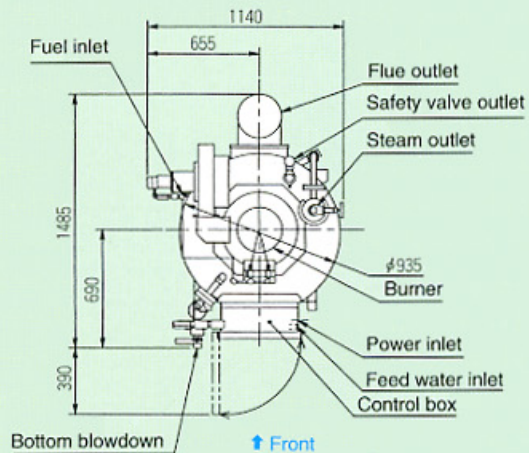
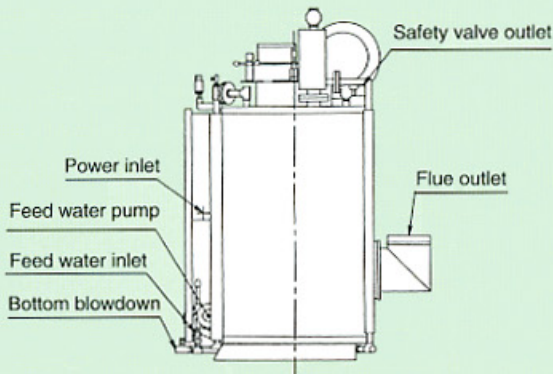
Specification

	Item	Unit	Type							
			EH-500F		EH-750F		EH-1000F		EH-1500X	
			K	A	K	A	K	A	K	A
Standars			Small-size boiler structure code							
Operator's qualification			Special training by MIURA							
Boiler	Max working pressure	MPa(kg/cm ²)	0.98 (10.0)							
	Equivalent output	kg/h	500		750		1,000		1,500	
	Heat output	kW(kcal/h)	313 {269,500}		470 {404,300}		627 {539,000}		940 {808,500}	
	Boiler efficiency	%	more than 85							
	Heating surface area	m ²	7.60		9.77		9.35		9.65	
	Hydraulic test pressure	MPa(kg/cm ²)	1.57 (16.0)							
	Water content	ℓ	140		175		150		145	
	Net weight	kg	900		1,250		1,650		2,150	
Power supply	Power source(3 phase/200V)	kW	1.5	1.5	3.4	3.4	4.1	4.2	8.2	8.2
	Blower motor		0.55	0.55	1.5	1.5	2.2	2.2	5.5	5.5
	Oil pump motor		—		0.2	0.2	0.2	0.3	0.3	0.3
	Feed water pump motor		0.75	0.75	1.5	1.5	1.5	1.5	2.2	2.2
Control system	Combustion system		Forced draft fan, pressure atomized type							
	Ignition system		High pressure electric spark							
	Combustion control system		3-way control							
	Combustion detection system		Cadmium sulfide cell sensor							
Fuel	Type		Kerosene	Heavy oil A	Kerosene	Heavy oil A	Kerosene	Heavy oil A	Kerosene	Heavy oil A
	Fuel consumption	ℓ /h	37.7	36.6	56.6	54.9	75.5	73.1	113.2	109.7
Blower	Type		Centrifugal turbo-fan							
	Blower fan wind volume	m ³ /min	8.5		12.6		16.8		25.3	
Boiler dimensions	W	mm	1,140		1,180		1,235		2,285	
	D		1,485		1,690		1,915		1,795	
	H		2,055		2,055		2,255		2,455	
Connection size	Steam outlet	A	32		40		50		65	
	Feed water inlet		15		20		25		32	
	Fuel inlet		15		10		10		10	
	Bottom blow valve		25		25		25		25	
	Safety valve outlet		40		40		50		50	
	Flue gas stack	φ,mm	250		290		330		360	

- Fuel consumption is calculated at low heat value. Each model's low heat value is as follows: Kerosene8,400kcal/ℓ
Heavy oil A8,670kcal/ℓ
- Boiler room dimensions are standard.
- The EH-750F main steam valve diameter is 32A, but the required steam outlet diameter is 40A by attaching a reducer.
The EH-1500X main steam valve diameter is 50A, but the required steam outlet diameter is 65A by attaching a reducer.
- Figures in curly brackets { } indicate traditional measurement system units.

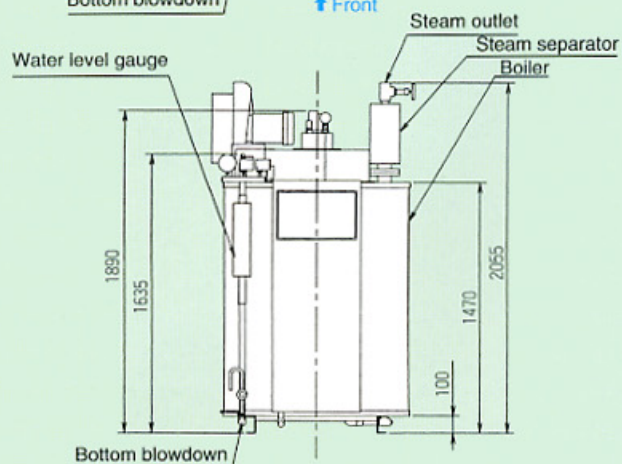
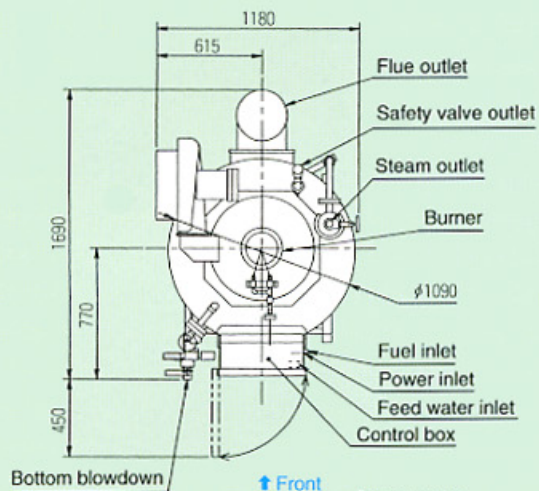
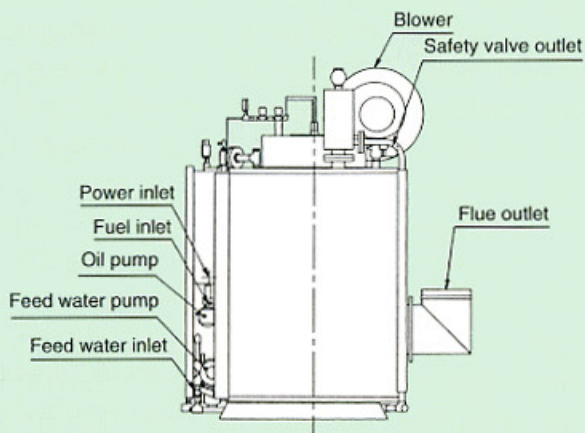
DIMENSIONS

EH-500F



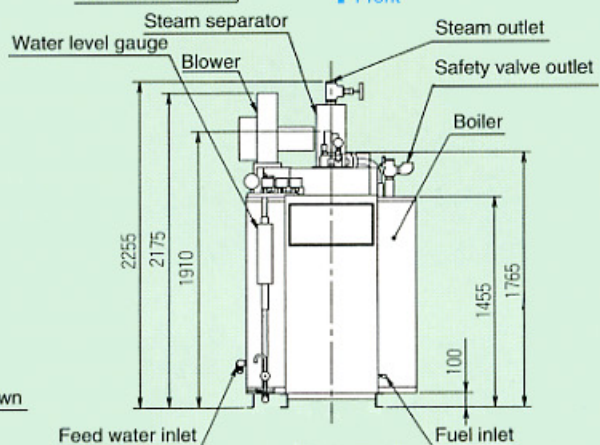
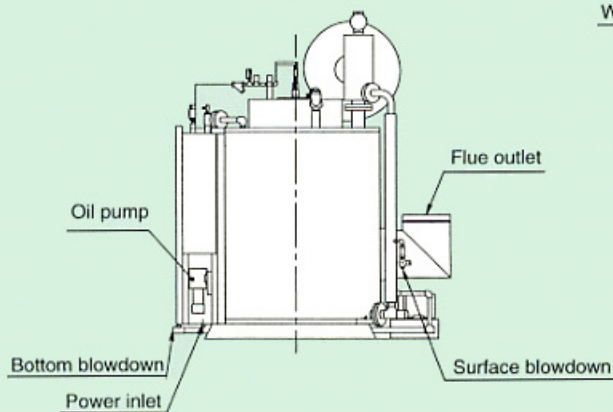
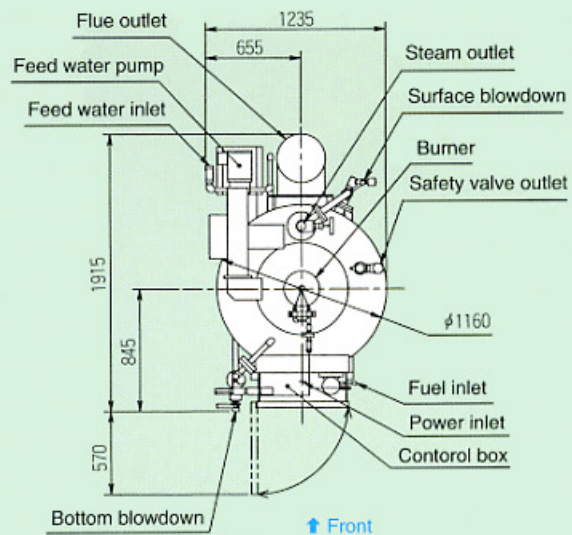
DIMENSIONS

EH-750F



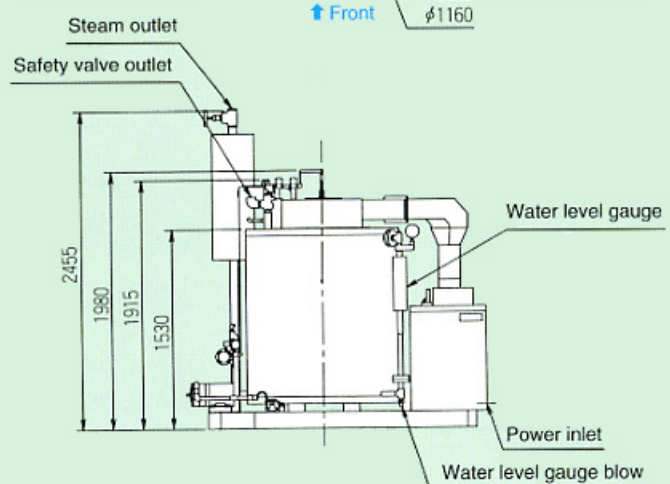
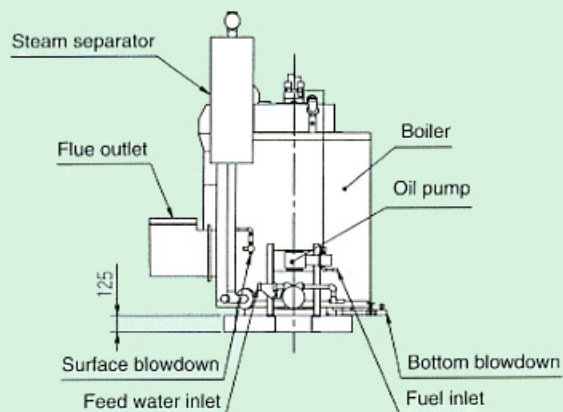
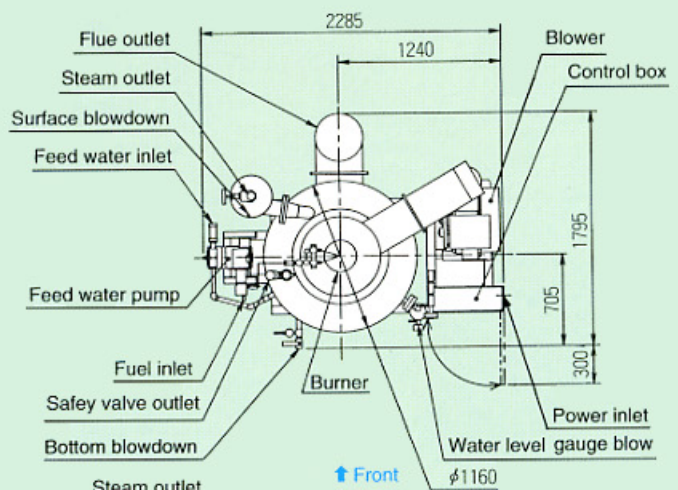
DIMENSIONS

EH-1000F

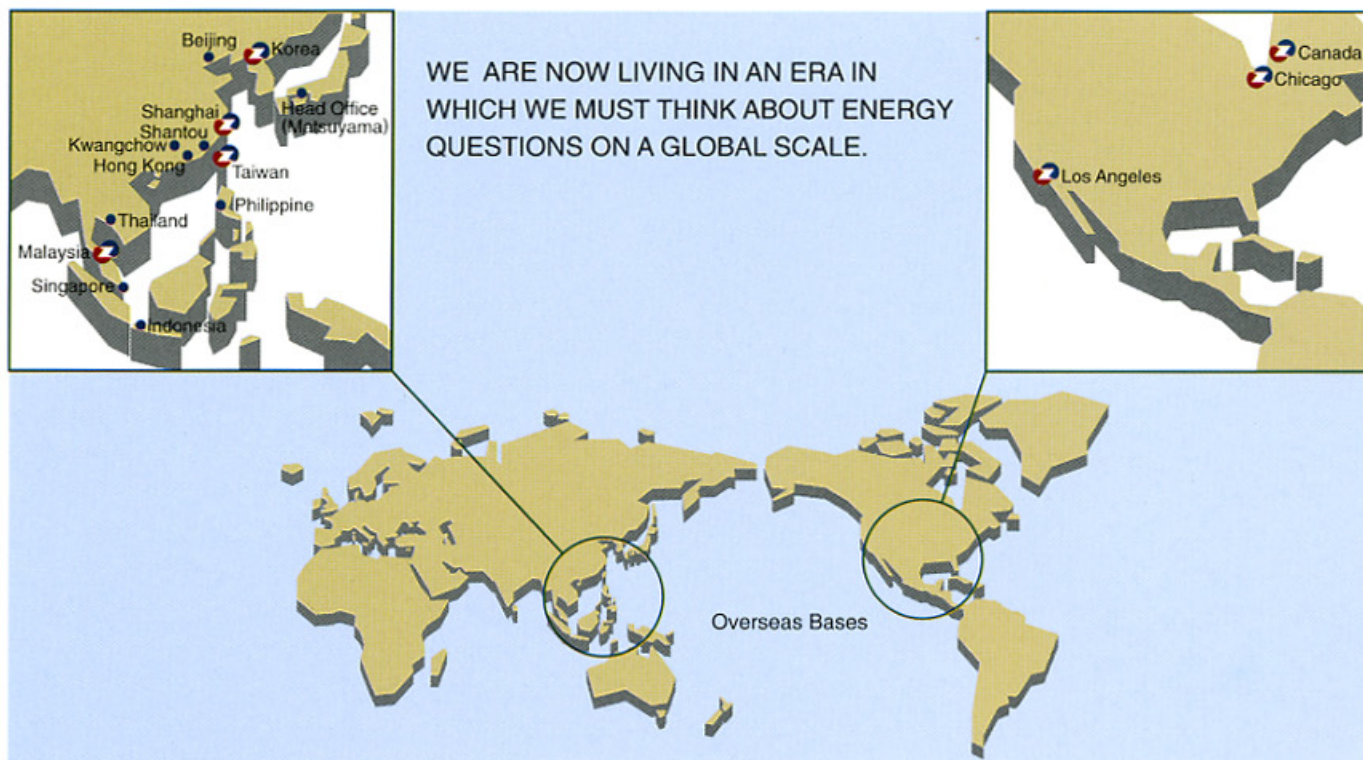


DIMENSIONS

EH-1500X



International Network



Accessories

CMU-124H



- Hardness leakage detector

- Intelligent water manager

CPI-30L



- Chemical Feed Pump

MP1-200



- Multiple unit installation Controller