





Option

Boiler is always kept in the best condition.

Concentrated Blow is available.*

Controller operates concentrated blow automatically depending on operating conditions of the boiler. Optimum timing of overall blow is informed by lamp indication. As a result, all the boilers are kept in the best condition.

U-500R includes as standard.



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SAMSOLUTION BOILER SYSTEM

Made in Japan since 1945



TURBO

Turbo series is renewed, featuring Easy Operation, Reliable Safety and High Performance inherited from the previous series.

Newly developed control panel pursues the customer's convenience.

All of the boiler control is displayed on the control panel. Easy and quick judgement of all trouble becomes possible so that working loss can be minimized.



operation indication 8 items check indication 12 items





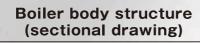
When error occurrence indication is lighting, if you press "changeover switch",

Dry Steam of High Quality Is Useful for Saving Energy

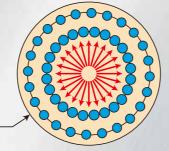
Such problems as "Product quality changes", "Pressure reducing valve and trap often produce trouble", and "Heating efficiency is quite low" result from the poor quality of steam. SAMSON Boiler can produce constantly high-dryness steam by our original "Water Level in Alignment Control Technology".

Durable Round Shape Boiler Body Structure is tough for long use

Boiler Body is round shape structure, and water tubes are arranged cylindrically in the boiler. Combustion flame contacts each water tube equally and there is no need to worry about the partial heating on tubes. Consequently more durability and longer life can be achieved.



Flame contacts each tube equally.



Note: This drawing shows a structure of TU-500R





Item			Unit	TU-100R	TU-200R	TU-300R	TU-500R	
	Type of B	Boiler	_	Once-Through Boiler				
Max. Pressure			MPa	0.69	0.98			
Working Pressure Range		MPa	0.39~0.59	0.39~0.88				
Hydraulic Testing Pressure		ng Pressure	MPa	1.2	1.58			
Equivalent Evaporation		kg/h	100	200	300	500		
Heat Output		kW(kcal)	62.7(53,900)	125(108,000)	188(162,000)	313(270,000)		
Boiler Efficiency		%		87		85		
Heating Surface Area		m²	2.75	3.89	4.95	4.98		
Holding Water Volume		r Volume	L	38	53	63	82	
Type of Burner			_		Forced Draft, Pressure Spray			
Combustion Control			_	ON-OFF				
Feed Water Control			_	ON-OFF				
Ignition			_	AC Spark Ignition				
Dry Weight		ght	kg	250	370	470	560	
W	Weight in Operation		kg	290	425	535	645	
	Fuel nsumption	Kerosene	L/h	7.5	14.9	22.4	38.2	
Cons		Heavy Oil A	L/h	_	14.1	21.2	36.2	
Power Supply		_	AC100V 1φ (50/60Hz)*	AC200V 3φ(50/60Hz)*				
Available		Kerosene	kW	0.37	1.00		1.70	
Electricity		Heavy Oil A	kW	_	1.05		1.75	
Total Ele		Kerosene	kVA	0.75	1.89		2.76	
Ca	Capacity	Heavy Oil A	kVA	_	1.	94	2.81	
۔ ا	Fan Motor		kW	0.07	0.4		0.75	
Description	Feed Water Pump Motor		kW	0.20	0.4		0.75	
esci	Nozzle Heater (A only)		kW	_	0.05			
۵	For (Control	kW	0.1	0.2			
Main Wire Size		mm²	2					
Power Breaker Capacity		А	15			20		

1. The above specifications are based on the following standard values

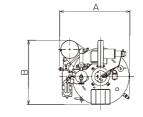
Steam pressure 0.49 MPa (5 kgf/cm²)

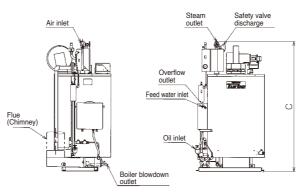
Feed water temp. 15°C

Lower heating value Kerosene: 34.8 MJ/L (8,310 kcal/L) Heavy Oil A: 36.7 MJ/L (8,770 kcal/L)

- 2. The following allowance is considered as unavoidable measurement error: ○Measurement error in boiler efficiency ±2%
 ○Measurement error in combustion (input) ±3.5%
- 3. The above Available Power is value when Feed Water Pump is installed. 4. Specifications are subject to change without prior notice.
- * 200-480V can be available by transformer

Outline Dimensions





The shape of boiler is different depending on Model and Specification. This drawing is TU-300R.

	TU-100R	TU-200R	TU-300R	TU-500R	
Α	790	935	965	1,029	
В	621	777	896	1,063	
С	1,604	1,644	1,805	1,936	
Feed water inlet	Normal Te High Ten	Normal Temperature : 20A(G3/4) High Temperature : 20A(Rc3/4)			
Oil inlet		15A (R1/2)			
Steam outlet	20A (Rc3/4)	25A(Rc1)		32A (Rc1-1/4)	
Safety valve discharge	20A (Rc3/4)		25A(Rc1)	32A (Rc1-1/4)	
Boiler blowdown outlet	25A(Rc1)				
Air inlet	15A (Rc1/2)				
Overflow outlet	20A (Rc3/4)			25A(Rc1)	
Chemical dosing inlet					
Flue(Chimney)	Ф150	Ф 200	Ф25	50	