Network

We, SAMSON Co., Ltd., have been engaged in the manufacture and sales of various Boilers and Food Processing Equipment since our foundation in 1945, and have been enjoying a good reputation from customers in various industrial fields of Japan.

In overseas markets, we have devoted ourselves to exporting our products into mainly Asian countries for a long period and have delivered them to many customers.

After delivery, our authorized distributors in the respective countries have taken care of maintenance services on our equipment through the cooperation from customers.

We are supporting our distributors for the improvement of maintenance technology and we hope our customer can operate our products safely without any trouble.



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From Evolution to Advance! **558** Super Scrum Boiler

To realize Low-carbon society, SAMSOLUTION never stop evolution!! We advance our technology for Energy Saving.

Everyone try to save the energy from time to time. But the most important thing for Energy-saving is continuation and advancement. So, we eager much advanced performance on our Boilers.

SSB series are concentrated into Energy-Saving function. New functions are added on current boiler functions and improved on Safety, Visibility and ENERGY-SAVING !





Combustion and Feed water control **High speed** multi-position

High dryness steam



SAVING ENERGY

High efficiency, Long-life boiler body

Adopt new micro-furnace boiler body

Efficiency

96% **⇒** 97% (TYPE:2000APL)

We improve heat transfer efficiency by following innovation.

- Our original new micro furnace boiler body

- Fin water tube which realize higher heat transfer and less pressure drop of Combustion gas flow

Boiler body has the furnace with round-positioned water tube.

Heat of combustion gas is transferred to each water tube equally. No particular water tube is overheated so that you can enjoy long-life of boiler.







(Heating radially and evenly at each water tube)

High turn-down

1:4 wide combustion, saving energy operation with few stand-by

1L=JPY100

Burner with wide turn down(ratio of maximum combustion - minimum combustion) has wide combustion range, so that efficient operation can be achieved even though boiler load is low.

You can save energy because of less purge heat loss.

Advantage for environment and fuel consumption with high efficiency and high turn-down





High-speed multi position combustion control

Quick combustion shift makes no waste

High-speed multi position combustion control includes 4 combustion position as standard, and can shift to each standard within less than 1 second.



"High condense operation"!



High dryness steam ··· Supply high dryness steam

Advanced water level control system helps to obtain stable supply of high dryness steam in low - high load.

- What is the advantage of "High dryness steam"?
- ① Energy saving operation

·High dryness steam has more latent heat than wet steam, so that total steam consumption can be reduced ·Amount of drain from steam trap can be reduced.

High condense operation... It is possible to run boiler with highly condensed water

In general, carry-over is likely to happen as condensation of boiler water becomes high and dryness of steam will be low. Thus, it is common to operate boiler with low condense water with high blow rate. SSB series has unique water level control and high performance steam separator to obtain high steam dryness even with high condense water.

• What is the advantage of "High condense operation"? It is possible to operate boiler with high electric conductivity water to lower blow rate. Saving energy with less waste water.

Inverter control as standard for fan motor and feed water pump

Cut electric consumption to 1/4 for fan motor.Less electric consumption and long-life feed water pump.

- Fan motor inverter control Saving energy by adjusting fan motor rotation speed for boiler combustion position.

Automatic air ratio control in best value through all season

Offset wind amount correspondence to air temp. to stable combustion and saving energy.



2 Less harmful to user machine

- ·Less steam hammer
- ·Low risk of alkali corrosion

Saving energy

Feed water inverter control

If boiler operation pressure is low after overall blow or feed water timing. decreasing feed water pump rotation speed make less electric consumption. protect water flow meter and feed water pump, less cavitation.

Air proportion stabilization control



We are seeking for safety and security, and it is easy to check the boiler status and situation!

SAFETY EYE Indicate boiler operating condition in real time

Blink





STATE EYE

Combustion process								
HIGH	HIGH	нісн						
	MIDDLE	MIDDLE						
LOW	LOW	LOW						
Low combustion	Middle combustion	High combustion						

Multiple safe design

Fail safe ··· Fail safe design water level control and combustion control

Installed multiple safe device as low-water cut off device, safety valve etc.

More high level safeness with fail safe design feed water control and combustion control.

- Low water sensor × 2 units • Steam temperature sensor
- High reliability with equipped sensors.

Prevention method ··· Output check point before it breaks

Display check point before output errors.

- Exhaust gas temperature inspection • Steam pressure sensor inspection • Exhaust gas temperature sensor inspection • Water tube temperature sensor inspection • Combustion air temperature sensor inspection High water level inspection (Pure water specification)* Overall blowdown inspection • Chemical injection inspection
- (Automatic overall blowdown control)*
- Water-level electrode rod inspection
- Electric conductivity sensor inspection Concentrated blowdown inspection
- etc.







Indicate combustion process and water level condition in real time





Low water level

Feed water control level

High water level

- Boiler water temperature sensor
- Exhaust gas temperature sensor
- Wind pressure sensor
- Steam pressure sensor
- Boiler body thermo
- Electric conductivity sensor
- Steam temperature sensor
- etc.

*Option

SYSTEM FLOW



It remove dissolved oxygen in the feed water. And it prevent the boiler, steam piping and steam required equipment from corrosion. We can supply not only membrane but nitrogen substitution type and Heating deaerator system.

Our multi-purpose boiler chemicals have a function to prevent scale sticking and corrosion, adjust pH, and disperse sludge. Please use Sam-clean series to keep the boiler good condition for long time.

*We might be unable to export due to the regulation of your country. Please contact us for confirmation.

Delivery to the

Drainage



SAMCLEAN S-125

MANAGEMENT & SPEC

In the boiler room

NEW TT Multi-boilers control panel RRM Selects the best operation pattern Minimize fuel & electricity consumption

In case steam load is small, operation of controlling multi-boilers under low combustion is more efficient than operation of controlling a boiler under high combustion.

NEW-BRMIV can be improved the efficiency of the entire system and reduce the electricity consumption by selecting optimal operating pattern to check the operating condition and steam demand.

For example...in case steam load is 2,000kg/h(SSB-2000APL × 4 units)



Saving energy operation that improve the entire boiler efficiency and reduce the fuel consumption

In the monitoring room...

SCORE тем

To manage the total steam generating system not only boiler but including auxiliary equipment



To indicate the machine condition of entire steam generating system.



To indicate the guidance that explain the cause and ways to cope with it by using photo and drawing at occurring error and inspection.

FORMER PORT
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To manage the entire system and individual boiler.

-	-	****	***	***		- 2	**	****		No.
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-	28	12.7	- 23	- 63	-15	: IE	- 1	- 53	- 31	11
Ħ	14	- 27	- 23	E	12	18	- 1	- 23	÷	12
11	12	12.2	: 11	- 51	- 22	- 12	. 1	22	- 22 -	11
t:	527	12.2	- 21	- 24	- 25	- 12	- 4	12	12	12
-1	1.4	33.	- 24	- 22	- 38	: 15	1		122	11
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딮	- 35	39	- 21	- EI	35	- 35	- 1	- 33	H	17
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To make a report for the entire system and individual boiler.



• Multi-boilers control setting screen You can set control pressure range, control quantity, control pattern and priority rank.

SCORE HG

We can supply not only standard model [[]Score VS] but also customized model depending on the customer ^rScore HG₁



If you install monitoring camera(option), you can get information in real time by movie.

	Sp	ecifications								
		Item	Unit	SSB-2	000AL	SSB-20	000APL	SSB-25	500API	
	-	Type of Boiler		Small Type Boiler						
	Max. Pressure		MPa	0.98						
	Working Pressure Range		MPa	0.49~0.88						
	Equivalent Evaporation		kg/h		2,500					
	Heat Output		kW	1,254				1,567		
	В	oiler Efficiency	%	9	0	9	7	9	6	
	Heating Surface Area		m2	9.89				9.	94	
	Holding Water Volume		L	170						
	Т	Type of Burner		Forced draft / Pressure-spraying type						
	Combustion Control		-	Inverter Control, Multi-Position Combustion Control						
	Turn-down Ratio		-	1:4						
	Feed water control		-	Inverter Control, Multi-Position Combustion Control						
	Ignition		-	AC Spark Ignition						
	Dry Weight		kg	1,740 2,220 2,54					640	
	Weight in Operation		kg	1,900 2,420		2,760				
	Fuel		-	Kerosene	Heavy oil A	Kerosene	Heavy oil A	Kerosene	Heavy A	
	Fuel Consumption		kW	1,3	93	1,2	93	1,6	33	
			L/h	144.1	136.7	133.7	126.8	168.9	160.2	
	Supply Power Available Electricity		-	АС200V 3ф (50/60H			lz)			
	Equipment Power		kW	10.2		9.3		10.2		
	Total Electric Capacity		kVA	17.9		50Hz: 16.6	60Hz: 16.5	50Hz: 17.9	60Hz 17.8	
		Fan Motor		7.4 6.5 7.					.4	
	iption	Feed Water Pump motor		2.2						
	Descr	Oil Pump motor	kW	0.4						
	_	For Control		0.2						
	Ν	Main Wire Size				1	4			
	Powe	er Breaker Capacity	А			7	5			















Outline dimensions





The shape of boiler is different depending on Model and Specification. This drawing is SSB-2000APL model.