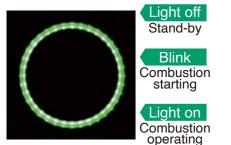
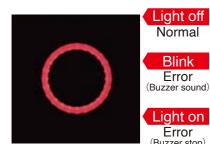
SAFETY & STATE EYE

Easy to recognize the boiler status and situation at first sight!

SAFETY EYE Real time indication of boiler operation condition







Normal Inspection indicator operating Information indicator operating

STATE EYE Real time indication of combustion state and water level condition







Status and settings such as steam pressure and water conductivity are displayed in an easy-to-understand manner (in Japanese or English).

Multiple safe design

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. High reliability with equipped sensors.

- Boiler body thermo
 Electric conductivity sensor
 Boiler water temperature sensor

- Gas pressure switch
 Wind pressure sensor
 Steam pressure sensor

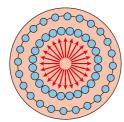
Prevention method

Check points would be informed on the monitor before the error ocuurs.

- Steam pressure sensor inspection
 Chemical injection pump inspection
 Exhaust gas temperature sensor inspection Electric conductivity sensor inspection
 Water tube temperature sensor inspection
- Overall blowdown inspection (Automatic overall blowdown device) *
 Water-level electrode rod inspection
- Concentrated blowdown inspection High water level sensor inspection (Pure water specification) * etc *: Option

Durable boiler body structure

Boiler body has the furnace with round-positioned water tube. Heat from combustion gas is transferred to each water tube equally. No particular water tube is overheated so that you can enjoy long-life of boiler.



Multiple safe design

Boiler body thermo switch, steam temperature sensor, earthquake detector and etc. are installed as standard as enforced safety device.

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.



SAMSON CO.LTD.

Tokyo Building(International Division)

ADDRESS	1-4-1 Omori-honcho, Ota-ku, Tokyo 143-0011 Japan
T E L	+81-3-6423-1171
F A X	+81-3-3761-0342
E-MAIL	overseas@samson.co.jp
WEB SITE	https://www.samson.co.jp/en/
	T E L F A X E-MAIL

SAMSOLUTION INTERNATIONAL CO., LTD.

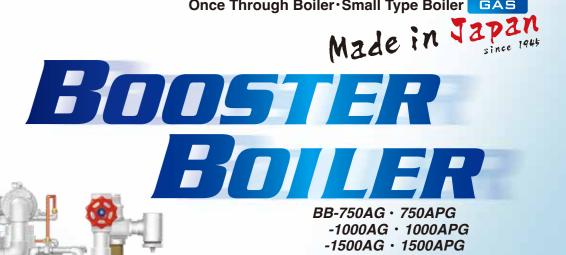
0/11/10020 11011 1111 E1111/111011/12 001, E1 D1				
ADDRESS	7F-8, NO.12, LN.609, SEC.5,CHONGXIN RD., SANCHONG DIST., NEW TAIPEI CITY 24159, TAIWAN(R.O.C.)			
T E L	+886-2-2278-3636			
F A X	+886-2-2278-3535			
WEB SITE	https://www.samson.co.jp/tw/			



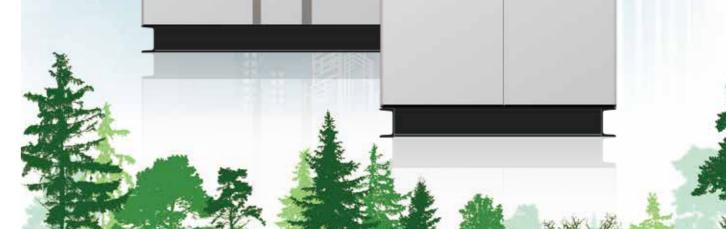
SAMSOLUTION BOILER SYSTEM

Once Through Boiler • Small Type Boiler GAS









SAVING ENERGY & ENVIRONMENT-FRIENDLY

High efficiency

Improved boiler efficiency reduces fuel consumption and CO2 emis-



For models

Boiler efficiency

Environment LOW NOx burner is installed as standard -Friendly

Condition: O₂ = 0% value, 13A actual measure: room temp. 30°C, humidity 65%. NOx value changes by fuel condition, room temp., and humidity.

Burner type is nozzle mix. No air filter needed, no trouble with daily maintenance for filter check / cleaning.

Economic efficiency

Inverter is installed as standard

/ 4 reduction of electric consumption at low combustion

Improved Turn down ratio

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

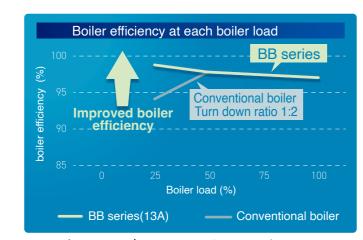
Boiler efficiency improved at low load!

Saving energy with High dryness steam [measured value more than 99.5%]

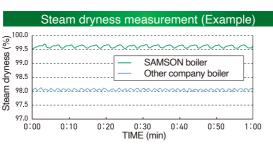
- Advanced water level control system helps to obtain stable supply of high dryness steam.
- If steam with high heating value (High dryness steam) is used, steam consumption can be reduced. Consequently, fuel expenses can be reduced.

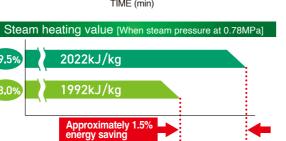
For example, if the steam dryness is 1.5% higher, steam heating value is increased in 1.5% which means you can save the energy consumption.

4 Position control



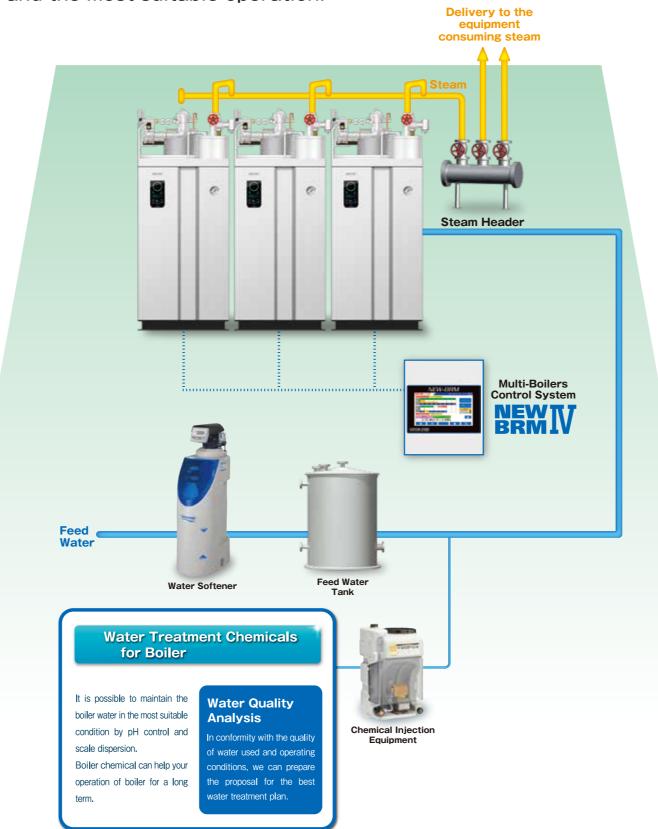
*BB-750AG/APG is 3-position control





SYSTEM FLOW

We, SAMSON CO., LTD., propose and support total system of boiler and the related equipment for the benefit of our customers and the most suitable operation.



Item		Unit	BB-750AG	BB-750APG	BB-1000AG	BB-1000APG	BB-1500AG	BB-1500APG		
Type of Boiler -		_	Once-Through Boiler Small Type Boiler							
Max. Pressure		MPa	0.98							
Working Pressure Range		MPa	0.49~0.88							
Hydraulic Testing Pressure		MPa	1.58							
Equivalent Evaporation		kg/h	7:	50	1,000		1,500			
Heat Output		kW(kcal)	470(40	04,000)	627(539,000)		940(809,000)			
Boiler Effic	eiency	%	90	97	90	97	90	97		
Heating Surfa	ice Area	m²	4.98		9.	.85	9.	75		
Holding Water	Volume	L	9	90 160		155				
Type of Burner		_	Blast							
Combustion	13A	_	3-Position control (Fan motor : Inverter control) 4-Position control (Fan motor : Inverter control)							
Control	LPG	_	o i osition control (i an	3-rosition control (ran motor : inverter control) 4-rosition control (ran motor : inverter control)						
Turn-down	13A	_		1:4						
Ratio	LPG	_		1:3						
Feed Water Control		_	ON-OFF control							
Ignition		_	AC Spark Ignition							
Fire Detec		_	Ultraviolet Ray Phototube							
Dry Wei	ght	kg	950	1,150	1,360	1,610	1,390	1,700		
Weight in Op	peration	kg	1,040	1,250	1,520	1,790	1,550	1,880		
	13A	kW	522	485	697	646	1,045	970		
	ISA	$m^3(N)/h$	46.3	43.0	61.8	57.3	92.7	86.0		
Fuel	LPG	m³(N)/h	20.1	18.6	26.8	24.8	40.1	37.2		
Consumption	Propane	kg/h	40.5	37.6	54.0	50.1	81.1	75.2		
	LPG	m³(N)/h	15.8	14.7	21.1	19.6	31.6	29.4		
	Butane	kg/h	41.2	38.2	54.9	50.9	82.3	76.4		
Supply Gas	13A	kPa	2.0±0.5 13.0~20.0							
Pressure	LPG	kPa	2.8±0.5 8.0~15.0							
Supply Power Available Electricity		_	AC200V 3φ (50/60Hz)							
Equipment Power		kW	3.2		3.9		7.9			
Total Electric Capacity		kVA	7.8		8.6		14.5			
_ฐ Fan N	∕lotor	kW	1.5		2.2		5.5			
Fan N		kW		1.5			2.2			
		kW			0.2					
Main Wire	Size	mm²		.5	5.5		14			
Power Breaker Capacity		Α	3	30	4	10	6	60		

Remarks: 1. The performance display conforms to the "Boiler performance display reference value" of Small-Type Once Through Boiler Association of

Calculation of boiler

Heating balancing: JIS B 8222 Steam pressure : 0.49MPa Water supply temperature : 15°C

Charge air temperature : 35°C _ower heating value = 13A : 40.6 MJ/m³(N)

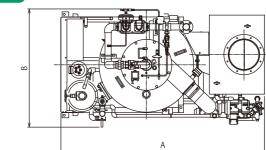
= LPG Propane : 93.7 MJ/m³(N),46.4MJ/kg = LPG Butane : 118.9 MJ/m3(N).45.7MJ/kg

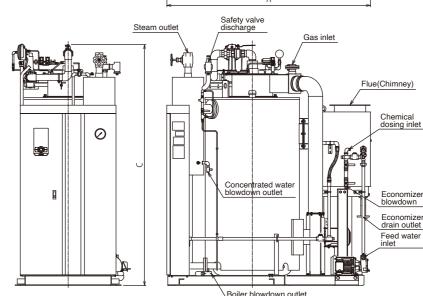
2. The allowable values below shall be provided as an error. *BB-750 error of boiler efficiency ±2%

·BB-1000·1500 error of boiler efficiency ±1%

- •Error of combustion quantity (input) $\pm 3.5\%$ 3. A power supply of 100 V AC (1 ϕ) is required when installing a water softener.
- 4. Gas booster pump is required when the supply gas is insufficient. 5.NOx guaranteed value: 60ppm (Condition: O_2 = 0% value, 13A: room temp. 30 °C,
- humidity 65%. NOx value changes by fuel condition, room temp., and humidity.)
 6. Please contact us if you would like to use the steam pressure more than 0.88MPa.

Outline Dimensions





The shape of boiler is different depending on Model and Specification. This drawing is BB-1000APG

Table of Dimensions

BB-750AG 1,783 966	BB-750APG 1,917	BB-1000AG 2,0	BB-1000APG	
		2,0	99	
966				
	1,060	1,132 1,161		
1,9	34	2,370		
	25A	(Rc1)		
	50A((Rc2)		
32A(R	Rc1-1/4)	50A(Rc2)		
32A(Rc1-1/4)		40A(Rc1-1/2)		
	25A(Rc1)		
	15A(F	Rc1/2)		
32A(Rp1-1/4)	_	32A(Rp1-1/4)	_	
_	20A(Rc3/4)	-	20A(Rc3/4	
-	40A JIS5K	_	40A JIS5K	
	15A(F	Rc1/2)		
φ250	\$\phi250\$ Flange connection or insertion connection	φ300	φ300 Flange connecti or insertion connectio	
	32A (F 32A (F 32A (Rp1-1/4)	1,934 25A(50A(32A(Rc1-1/4) 32A(Rc1-1/4) 25A(15A(F) 32A(Rp1-1/4) - 20A(Rc3/4) - 40A JIS5K 15A(F) 425O 4250 Flarge correction	1,060 1,161 1,934 2,3 25A(Rc1) 50A(Rc2) 32A(Rc1-1/4) 50A(Rc2) 32A(Rc1-1/4) 40A(Rc2) 25A(Rc1) 15A(Rc1/2) 32A(Rp1-1/4) - 32A(Rp1-1/4) - 20A(Rc3/4) - 40A JIS5K - 15A(Rc1/2)	

	BB-1200AG	BB-1500APG		
ength)	2,019	2,313		
Width)	1,178	1,143		
al height)	2,316			
vater inlet	32A(Rc1-1/4)			
s inlet	50A(Rc2)			
m outlet	50A(Rc2)			
lve discharge	50A(Rc2)			
wdown outlet	25A(Rc1)			
vater blowdown outlet	15A(Rc1/2)			
drain outlet	32A(Rp1-1/4)	-		
zer blowdown	-	20A(Rc3/4)		
er drain outlet	-	40A JIS5K		
l dosing inlet	15A(Rc1/2)			
Chimney)	φ300	φ300 Flange connection or insertion connection		

*Product specifications are subject to change without notice for improvement