

## SAMSON CO., LTD.

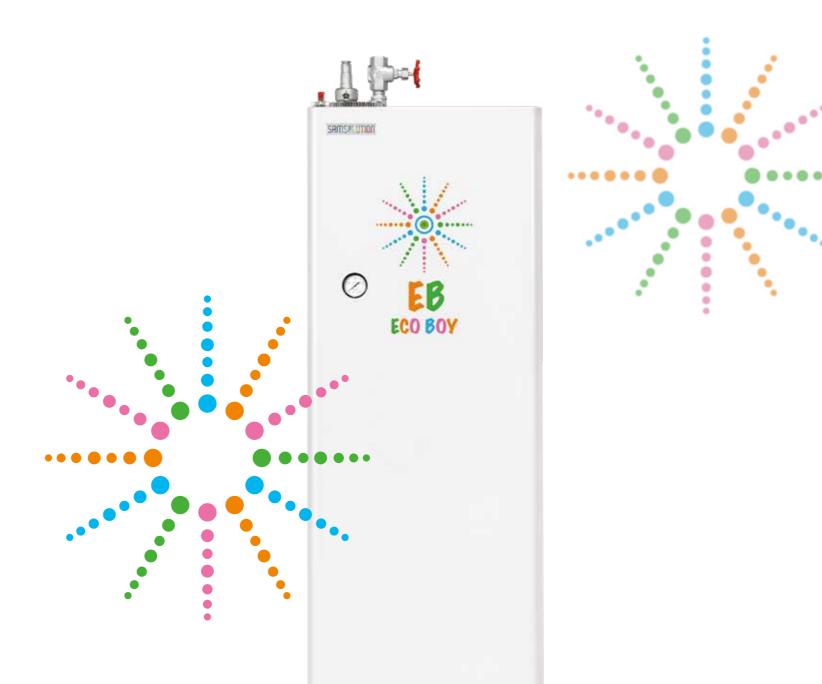
## **Tokyo Building (International Division)**

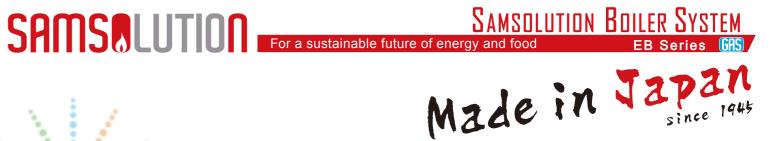
ADDRESS	1-4-1 Omori-honcho, Ota-ku, Tokyo 143-0011 Japan
TEL	+81-3-6423-1171
F A X	+81-3-3761-0342
E - M A I L	overseas@samson.co.jp
WEB SITE	https://www.samson.co.jp/en/

## SAMSOLUTION INTERNATIONAL CO., LTD.

ADDRESS	7F-8, NO.12, LN.609, SEC.5, CHONGXIN RD., SANCHONG DIST., NEW TAIPEI CITY 24159, TAIWAN(R.O.C.)
TEL	+886-2-2278-3636
FAX	+886-2-2278-3535
WEB SITE	https://www.samson.co.jp/tw/







# ECO BOY

## **B** Series

## EB-160S EB-250N EB-350N EB-500N EB-250PN EB-350PN EB-500PN

	ltem	Unit	EB-160S	EB-250N	EB-350N	EB-500N	EB-250PN	EB-350PN	EB-500PN	
T	ype of Boiler	Boiler — Once-Through Boiler								
		MPa(kgf/cm <sup>2</sup> )	0.69(7) 0.98(10)							
Workin	g Pressure Range	MPa	0.39~0.59	0.39~0.59 0.39~0.88						
Hydraul	lic Testing Pressure	MPa(kgf/cm <sup>2</sup> )	1.19(12)	9(12) 1.58(16)						
Equiva	alent Evaporation	kg/h	160	250	350	500	250	350	500	
Heat Output		kW(kcal)	100(86,200)	157(135,000)	219(189,000)	313(270,000)	157(135,000)	219(189,000)	313(270,000)	
Boiler Efficiency		%		90 85 96						
Heati	ng Surface Area	m²	3.1	4.12	4.98	4.98	4.12	4.98	4.98	
Holding Water Volume		L	40	52	66	82	52	66	82	
Ту	pe of Burner	-		Blast						
Com	bustion Control	-	ON-OFF	ON-OFF 3-Position(High-Low-OFF)						
Feed	d Water Control	-		ON-OFF						
Ignition		-		AC Spark Ignition						
Flame Detection		-		Flame Rod						
	Weight	kg	330	430	530	655	560	720	850	
Weig	ght in Operation	kg	370	485	600	740	620	790	945	
	13A	m³(N)/h	9.9	15.4	21.6	32.7	14.5	20.3	29.0	
Fuel Consumptio	LPG	m³(N)/h	4.3	6.7	9.4	14.2	6.3	8.8	12.5	
		kg/h	8.6	13.5	18.9	28.6	12.7	17.7	25.3	
	LPG	m³(N)/h	3.4	5.3	7.4	11.2	4.9	6.9	9.9	
	Butane	kg/h	8.8	13.7	19.2	29.1	12.9	18.0	25.7	
Supply	gas 13A	kPa	2.0±0.5(200±50)							
press	LPG	(mmAq)		2.8±0.5(280±50)						
Power Supply		-	AC200V 3¢(50/60Hz)*							
Available Electricity		kW	Normal Temperature:0.6 High Temperature:0.8	Normal Temperature:1.0 High Temperature:1.0	Normal Temperature:1.35 High Temperature:1.35	Normal Temperature:1.70 High Temperature:1.70	Normal Temperature:1.0 High Temperature:1.0	Normal Temperature:1.35 High Temperature:1.35	Normal Temperature:1.70 High Temperature:1.70	
Total Electric Capacity		kVA	Normal Temperature:1.23 High Temperature:1.44	Normal Temperature:1.75 High Temperature:1.79	Normal Temperature:2.31 High Temperature:2.31	Normal Temperature:2.93 High Temperature:2.93	Normal Temperature:1.75 High Temperature:1.79	Normal Temperature:2.31 High Temperature:2.31	Normal Temperature:2.9 High Temperature:2.93	
Μ	ain Wire Size	mm <sup>2</sup>		2						
Power Breaker Capacity		A		15						
	Feed Water Inlet	-	Normal Temper	Normal Temperature:15A High Temperature:20A		20A	Normal Temperature:15A	High Temperature:20A	20A	
	Gas Inlet(13A)	-	25A		32A	40A	25A	32A	40A	
	Gas Inlet(LPG)	-	25A			40A	25A 4		40A	
	Steam Outlet	-	25A		32A		25A 32		2A	
	Safety Valve Blow	-	20A 25A		5A	32A	25A 32A		32A	
ectio	Boiler Water Blow					25A				
Connection Dia.	eed Water Tank Overflow	v	20A			25A	20A 25A			
ŬE	Economizer Drain	-	_				25A			
	Air Inlet			10A			15A 10A 15A			
	Chemical Inlet	-				15A				
	Chimney	mm	φ120	φ120 φ150 φ200		φ250	φ150 φ250			

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

 Steam pressure
 0.49MPa(5kgf/cm²)

 Feed water temp.
 15C

 Feed air temp.
 35°C

 Lower heating value
 13A : 40.6 MJ/m³(N) [9,700 kcal/m³(N)]

 Lower heating value
 13A : 40.6 MJ/m³(N) [22,380 kcal/m³(N)], 46.4 MJ/kg [11,080 kcal/kg]

 Butane:
 118.9 MJ/m³(N) [28,400 kcal/m³(N)], 45.7 MJ/kg [10,920 kcal/kg]

Please always supply with gas at the stable pressure within standard range at anytime of boiler stop, boiler operation and other equipment operation

The following allowance is considered as unavoidable measurement error: Measurement error in boiler efficiency ±2% Measurement error in combustion (input) ±3.5%
 Specifications are subject to change without prior notice.
 200-480V can be available by transformer.

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1 Part

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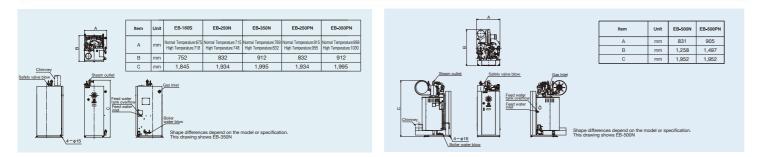
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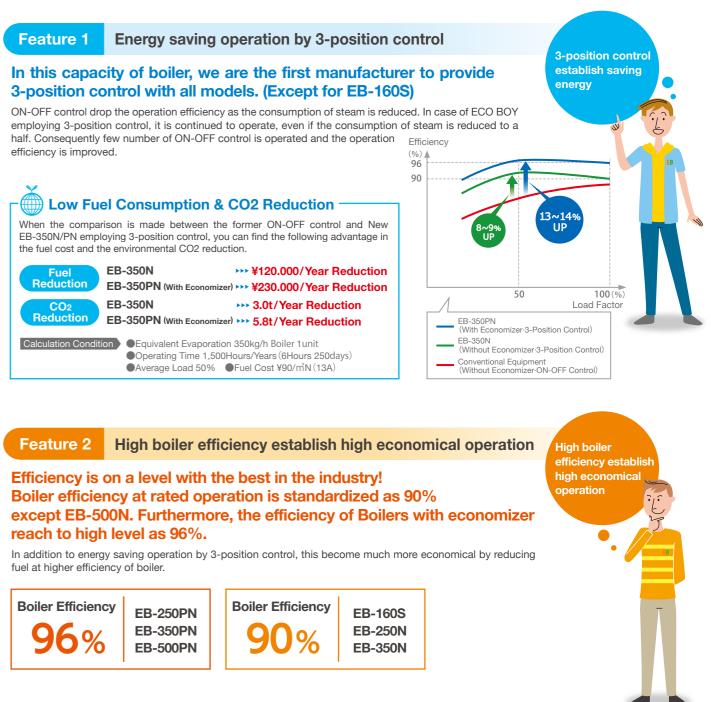
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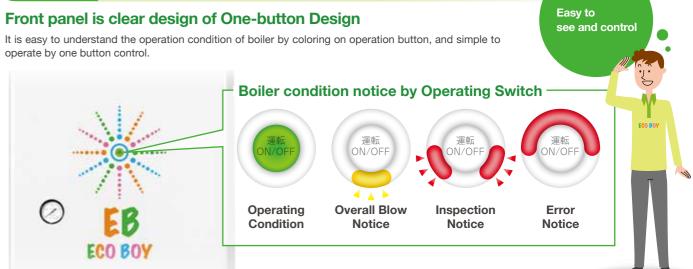
### ()Low Fuel Consumption & CO2 Reduction

Fuel Reduction	EB-350N EB-350PN (With Economizer)	>>> ¥120.000/Year Red >>> ¥230.000/Year Red
CO <sub>2</sub> Reduction	EB-350N EB-350PN (With Economizer	3.0t/Year Reduction     5.8t/Year Reduction
Calculation Condit		ours/Years (6Hours 250days)



Clear design establishes easy control Feature 3

operate by one button control.



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