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.

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SAMSOLUTION INTERNATIONAL CO., LTD.

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WEB SITE	https://www.samson.co.jp/tw/

Water Treatment INEUR

SAMSOLUTION WATER TREATMENT SYSTEM
For a sustainable future of energy and food

Made in Japan since 1945

Good water is the basis for all activities

Proper Water Treatment is Essential for Boilers

Boilers are evolving day by day. Even if a boiler has high performance, you cannot operate it Especially, water treatment equipment is very important to operate the boiler for a long time.

efficiently without daily maintenance and inspection.



Functions of Water Softener

City water and well water contain hardness elements such as calcium and magnesium (called hard water). If you continue to use such water without any treatment, it may cause the equipment to reduce its efficiency, service life or product quality.

Water softener will eliminate hardness elements in the water by passing them through Ion Exchange Resin and change hard water into soft water. As a result, you can prevent troubles as mentioned above.

Meanwhile, you can use this Ion Exchange Resin repeatedly for a certain period by regenerating it with salt (NaCl)



Our multi-purpose boiler chemicals have a function to prevent scale sticking and corrosion, adjust pH, and disperse sludge. All materials used in these products comply with FDA standards and can be used safely in food processing factories.

For injection of boiler chemicals, use of our proprietary injection equipment is recommended.

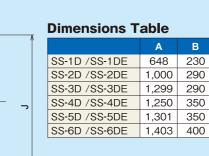


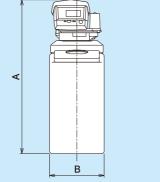
Chemical **Injection Pump**

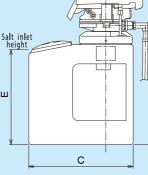
1. The quality of raw water should be in the following conditions: Turbidity Less than 2 Iron Less than 0.3 mg/L Chromaticity Less than 5 Manganese Less than 0.05 mg/L Not meeting the above conditions may cause clogging or performance degradation.

Dimensions

Δ







Specification Table

ĺ	ltem	Unit	SS-1D SS-1DE	SS-2D SS-2DE	SS-3D SS-3DE	SS-4D SS-4DE	SS-5D SS-5DE	SS-6D SS-6DE
F	Resin	—		Strongly acid	dic cation excha	nge resin		
Resir	n Quantity	l	6	12	20	30	40	54
Maximum	Flow Volume	m³/h	0.36	0.72	1.2	1.8	2.5	3.0
Removal H	ardness Weight	g/cycle	270	535	895	1,340	1,785	2,410
Maximum Wa	iter Sampling Rate	m³/cycle	2.7	5.4	9.0	13.4	17.9	24.1
Regene	eration Time	min/regeneration	97	115	91	105	94	110
Disp	lacement	ℓ/regeneration	89	160	255	296	388	590
Salt Co	onsumption	kg/regeneration	1.2	1.8	2.6	4.1	5.2	7.0
Maximum	n Salt Storage	kg	24	40	43	70	82	117
Normal Hyd	draulic Pressure	MPa		0.15~0.40	1		0.20~0.40	
Water/Roo	m Temperature	°C		Water tempe	erature : 4 to 38	, Room tempera	ture : 1 to 49	
Regeneration	Time Regeneration			1 to	7 times/week	or once/1 to 14	days	
Period	Signal Input Regeneration			Conforms to the	signal (voltage o	f 100 VAC) inpu	It from the outsid	de
Power (Consumption	W		0.3 (4.0	for only two mir	nutes during rege	eneration)	
Powe	er Supply	V			100 AC (50/60	Hz in common)	*	
Piping B (Outlet/Ir	oss Diameter hlet×Scupper)	A		25 × 15				
	Piping Diameter	A	15 20					25
Drain	age Hose	mm			φ16× φ20			φ21 × φ27
Overf	flow Hose	mm			φ12	×φ15		1
Packag	ging Weight	kg	16	25	36	48	58	74
Operat	ting Weight	kg	47	78	107	165	195	273
	0 0	kg				165		273

111





Manual regeneration can be operated by pressing one button.

You can load 25 kg salt at a time from the large inlet directly into the salt water tank.



Easy to set by

very easy!

Function

-



55_{Type}

Fully automatic water softener which does not

Compact, one-box type, incorporating salt

Easy-to-see digital liquid crystal display of

require a lot of time and labor

water tank in the equipment

Easy to set up for everybody

operating conditions

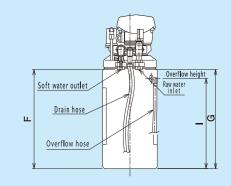
Easy to replenish salt

SAMSOFTENER

Longtime seller over

a quarter century

								(mm)
	С	D	E	F	G	Н	I	J
	440	481	400	417	417	502	380	607
	490	501	525	757	757	854	500	644
	490	501	827	1,056	1,056	1,153	802	644
)	630	611	770	1,007	1,007	1,104	736	779
)	630	611	770	1,058	1,058	1,155	736	779
	710	666	824	1,144	1,144	1,257	790	878



This drawing shows SS-1D. Shapes vary depending on models and specifications.

The model number of impulse timer specification is suffixed with E.
 Weight of Hardness Eliminated is calculated in terms of CaCO₃.
 Max. Water Supply Volume is a value where Total Hardness is 100 mg/L.
 Drain Water Volume is a value where Raw Water Pressure is 0.40 MPa.

6. Salt Consumption varies depending on the storage amount and dissolution time of salt.
 100-240V can be available by transformer.



Medium Class to meet actual

water consumption

We recommend you to operate SAMSON water softener in order to produce the following water.

Boiler Water

Prevents a drop in heat efficiency due to scale, and saves fuels and chemicals used. In addition, the need for washing water tube is eliminated.

Feed Water for **Electrolytic Water** Generator

Prevents scale from sticking to electrodes and extends the life of the equipment.

Cleaning Water

aves the amount of detergent eeps clothes beautiful, nd improves whiteness of

Dyeing Water Makes it easy to dye and wash. Moreover, dyed colors become more brilliant.

OPTION Common in SS, SSM, and SSL Series

Water Softener Regeneration Signal Output

Water softener outputs an external signal at the time of regeneration. Both voltage contact and non-voltage contact are available (except for SS-03D. DE).



Outdoor Specification

Select this specification in the case of outdoor installation (except for SS-03D, DE).

Automatic System You can perform automatic

SSM_{Type}

regeneration for 5 processes by fully automatic timer. You can also perform regeneration as needed.

177.

Fully



Reliable Salt

Water

Adjusting

6 varieties of large capacity models



Fully Automatic System

Reliable Salt Water Adjusting Equipment

SAMSON's proprietary structure always supplies you with higher concentration salt water.

performance Excellent water distribution to Ion Exchange Resin makes it

possible to prevent channeling.

Gathering and

distributing water

pipe of high

You can perform automatic

by fully automatic timer.

regeneration as needed.

You can also perform

regeneration for 5 processes



Cooling Water for Garbage Incinerator

Reduces the number of cleaning times of water pipe, and extends the life of the equipment.

Water for Hair and Beauty Saloon

Helps keep hands smooth and saves the amount of shampoo used.

Cooling Water for Air Conditioner

Prevents scale from sticking to the cooling tower, and reduces chemicals used and blow volume.

Water for Public Bath

Reduces the frequency of piping replacement.

Taking a soft water bath is healthy for your skin, and the soft water can create more foam.



(applicable model: SS-D, SSM-D, and SSL-D)

Select this specification in the case of operating impulse timer based water softener continuously for 24 hours.

This controls a motor valve to prevent hard water from entering the feed water tank.

We have "S system" suitable for one unit of water softener and "W system" for its two units.

Fixed Volume Regeneration Specification

(applicable model: SS-DE, SSM-DE, and SSL-DE)

This specification model includes a control panel, through which automatic regeneration takes place at the time of reaching the set volume.

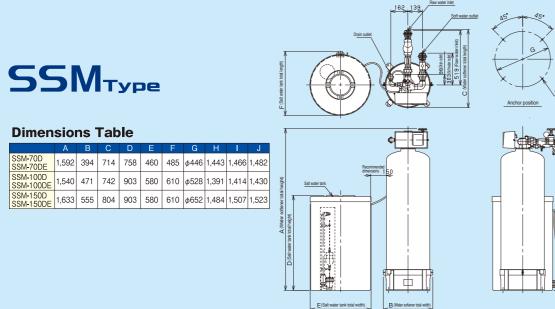
This is applicable to DE type water softener which regenerates due to the external signal.

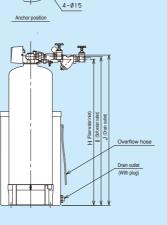
We have "EFR-S Series" suitable for one unit of water softener and "EFR-W Series" for its two units.



Dimensions

 This drawing shows SSM-100D and SSM-100DE. This drawing shows the product that is assembled and installed on site.



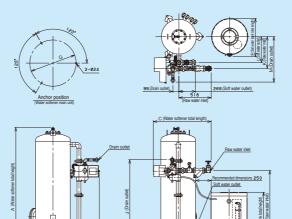


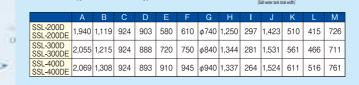
3440 600 V

SSLType

Dimensions This drawing shows

SSL-200D and SSL-200DE. • This drawing shows the product that is assembled and installed on site.





Specification Table

	ltem	Unit	SSL-200D SSL-200DE	SSL-300D SSL-300DE	SSL-400D SSL-400DE	SSL-500D SSL-500DE	SSL-600D SSL-600DE	SSL-800D SSL-800DE		
	Resin	-		Str	ongly acidic cat	ion exchange resin				
Res	in Quantity	l	200	300	400	500	600	800		
Maximu	m Flow Volume	m³/h	16	20	22	26	30	32		
Removal	Hardness Weight	g/cycle	8,920	13,380	17,850	22,310	26,770	35,700		
Maximum W	ater Sampling Rate	m³/cycle	89	133.5	178.5	223	267.5	357		
Reger	neration Time	min/regeneration	111	134	168	171	205	252		
Dis	placement	ℓ/regeneration	2,400	4,000	5,400	6,300	8,000	10,300		
Salt	Consumption	kg/regeneration	24	36	48	60	72	96		
Maximu	m Salt Storage	kg	90	130	260	590	540	450		
Normal H	ydraulic Pressure	MPa			0.20	~0.40				
Water/Ro	oom Temperature	°C		Water temper	ature: 4 to 40	, Room tempera	ture:1 to 49			
Regeneration	Time Regeneration			1 to	7 times/week o	r once/1 to 14 o	days			
Period	Signal Input Regeneration		C	onforms to the s	ignal (voltage of	f 100 VAC) inpu	It from the outsid	le		
Power	Consumption	VA	3 (200 for only	one minutes durir	ng regeneration)	3 (Maximu	m 210 during re	generation)		
Power Supply		V			AC100 (50/60	Hz in common)*	¢			
Connectin	g Piping Diameter	A	50 65							
Drain P	iping Diameter	A	25 40							
Overf	low Diameter	A			2	0				
Proc	duct Weight	kg	430	580	780	890	1,050	1,340		
Oper	ating Weight	kg	940	1,350	1,920	2,490	2,820	3,270		
Capacity of	of Salt Water Tank	l	200	300	500	1,000	1,000	1,000		

1. The quality of raw water should be in the following conditions: Turbidity Less than 2 Iron Less than 0.3 mg/L Chromaticity Less than 5 Manganese Less than 0.05 mg/L Not meeting the above conditions may cause clogging or performance degradation. 2. The model number of impulse timer specification is suffixed with E.

Specification Table

SSM-70DE SSM-100D

	ltem	Unit	SSM-70D SSM-70DE	SSM-100D SSM-100DE	SSM-150D SSM-150DE			
	Resin	—	Strongly acidic cation exchange resin					
Re	sin Quantity	l	74 105 157					
Maximu	um Flow Volume	m [*] /h 5.6 7.0						
Removal	Hardness Weight	g/cycle	3,120	4,460	6,690			
Maximum V	aximum Water Sampling Rate m ¹ /cycle		31	44.5	66.5			
Rege	eneration Time	min/regeneration	r/regeneration 88 104 1		134			
Di	splacement	ℓ/regeneration	800	1,200 1,800				
Salt	Consumption	kg/regeneration	8.4	12 18				
Maxim	um Salt Storage	kg	47	136 114				
Normal H	Hydraulic Pressure	MPa		0.20~0.40				
Water/R	oom Temperature	°C	Water temper	Water temperature : 4 to 40 , Room temperature : 1 to 49				
Regeneration	Time Regeneration		1 to	1 to 7 times/week or once/1 to 14 days				
Period	Signal Input Regeneration	-	Conforms to the s	Conforms to the signal (voltage of 100 VAC) input from the outside				
Powe	r Consumption	VA	3 (200 for only one minutes during regeneration)					
Pc	ower Supply	V		100 AC (50/60 Hz in common)	*			
Connectir	ng Piping Diameter	A		40				
Drain I	Piping Diameter	A		20				
Ov	erflow Hose	_		φ12 × φ15				
Pro	duct Weight	kg	115	150	220			
Ope	rating Weight	kg	290	475	645			
Capacity	of Salt Water Tank	l	100	200	200			

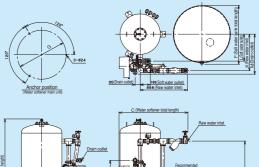
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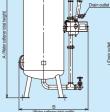
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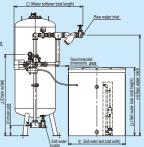
Weight of Hardness Eliminated is calculated in terms of CaCO₃.
 Max. Water Supply Volume is a value where Total Hardness is 100 mg/L.
 Drain Water Volume is a value where Raw Water Pressure is 0.40 MPa.
 Salt Consumption varies depending on the storage amount and dissolution time of salt.
 Gross Weight includes the weight of salt water tank and its accessories.
 100-240V can be available by transformer.

Dimensions

- This drawing shows
- SSL-500D and SSL-500DE. This drawing shows the product that is assembled and installed on site.







	Α	В	С	D	Е	F	G	Н			K		М
SSL-500D SSL-500DE	2,308	1,298	1,295	1,283	1,076	1,103	φ920	1,892	200	1,531	685	506	751
SSL-600D SSL-600DE	2,348	1,391	1,326	1,283	1,076	1,103	φ1,000	1,932	200	1,569	735	556	801
SSL-800D SSL-800DE	2,388	1,527	1,376	1,283	1,076	1,103	φ1,100	1,971	200	1,611	785	606	851

Weight of Hardness Eliminated is calculated in terms of CaCO₃.
 Max. Water Supply Volume is a value where Total Hardness is 100 mg/L.
 Drain Water Volume is a value where Raw Water Pressure is 0.40 MPa.
 Salt Consumption varies depending on the storage amount and dissolution time of salt.
 Gross Weight includes the weight of salt water tank and its accessories.
 * 100-240V can be available by transformer.

8000

Chemical Injection Equipment

Keeps boiler in good condition for a longer period by Chemical Injection

This equipment is intended to inject boiler chemicals essential to maintain the boiler in good condition. The operation becomes very easy by undiluted solution injection system. And the dilution is not difficult either.

Chemical Injection Pump



CP-X-31D

28 mL/min

1.5 MPa

Electromagnetic

2.2A

220VA

16W 75°C HVCTF

3×0.75mm⁴

Length 2 m

CP-X series



niection function **CP-W** series

4 ID × 6 OD (PA hose)

4 ID × 9 OD (PVC hose)

4 ID × 6 OD (PVC hose)

AC 100-240V Single-phase

50/60Hz

CP-W-30

30 mL/min 1.0 MPa

Solenoid

2.0A

200VA

15W

 $\phi 5 - \phi 10$

Cabtyre Cable 2 m

Model	Applicable Boiler	lodel	Pump	o Model
CP-W-30-			Max. (Capacity
VTCET-BW	EB-160 — 500(P)I	N	Max. Disch	arge Pressure
	TU-100-500(P)R			Discharge Side
CP-X-31D- VTCET-BW	RBO-750 - 2500 (F		Connection Size	Suction Side
	RB0-750 — 2500 (F	2)LN		Air Release
Accessories			Drive	System
①Nylon Hose (4 ID × 6 OI	D)	2.5 m	Powe	r Supply
②PVC Braided Hose (4 ID	× 9 OD)	0.5 m	Frec	luency
③Air-Releasing PVC Hose	e (4 ID × 6 OD)	1 m	Peak	Current
④Special Straight Check Valve	e (set pressure of 0.12 MPa)	1 (SC3-4E)	Peak Power	Consumption
⑤ Foot Valve (for 4 ID × 9 OD, Valve	Seat is made of PTFE) * Only for CP-W	1 (FV-4ET)	Average Pow	er Consumption
[®] Pump-Mounting Bolt and	l Nut (M5×30)	2 sets		
⑦Operation Manual		1	C	able
In the case of installing a unit	(pump+tank), (2) and (6) are n	ot provided.		

1041020403



Multi-Functional Chemicals for protection against corrosion and scale sticking

Maintains Boiler Water in good condition by pH control, scale dispersion, etc.

- Adjust pH of the boiler water to a proper value, and form the corrosion protective film on the inner surface of the boiler.
- Organic acid, organic acid salt and alkaline agent included in boiler chemicals act to disperse hardness elements leaked from the water softener as well as ion oxide.
- Transforming silica which cannot be treated by the water softener into water-soluble silicate sodium prevents scale from sticking to the inside of the boiler.



Multi-Purpose Boiler Chemicals

Туре	SAMCLEAN S-125
Capacity	18 kg
Package	Polyethylene Container

SAMCLEAN S-125 Category Code: G6, G7 NSF Registration No. 166985

Water Analysis Services



Standard Value of Feed Water for Samson Boiler

Division	Control Item	Unit	Standard Value
	pH (at 25°C)		5.8-9.0
	Hardness	mgCaCO ₃ /ℓ	Less than 1
	Oils and Fats	mg/ <i>l</i>	Keep at low level
	Dissolved Oxygen	mgO/ <i>l</i>	Keep at low level
eed Water	Iron	mgFe/ℓ	Less than 0.3
eeu water	Electric Conductivity	mS/m	Less than 35
	Acid Consumption (pH4.8)	mgCaCO ₃ /ℓ	Less than 80
-	Chloride Ion	mgCl⁻/ℓ	Less than 50
	Sulfate Ion	mgSO4 ²⁻ / <i>l</i>	Less than 50
	Silica	mgSiO₂/ℓ	Less than 50
	pH (at 25°C)		11.0-11.8*1
	Acid Consumption (pH4.8)	mgCaCO ₃ /ℓ	100-800
	Acid Consumption (pH8.3)	mgCaCO ₃ /ℓ	80-600*2
	Electric Conductivity	mS/m	Less than 400
Boiler Water	Chloride Ion	mgCl⁻/ℓ	Less than 400 *3
	Sulfate Ion	mgSO₄ ^{2−} /ℓ	Less than 400 *3
	Active Chemical Ingredients		More than 10*4
	Phosphate Ion	mgPO₄ ^{3−} /ℓ	More than 20*5
	Silica	mgSiO₂/ℓ	Less than 400 *6

*1 Keep the pH of the boiler water at around the upper limit of the standard value range. *4 Applicable to the case where phosphate is not included. This prevents silica scale and corrosion from occurring in the boiler in standby condition. *2 Maintain more than 1.5 times of silica concentration. *5 Applicable to the case of using treatment chemicals including phosphate in the boiler. *3 Under the condition of CI⁻ + SO₄ $^{2-} \leq$ 700 mg/ ℓ



In order to operate the boiler at high efficiency for a long time, it is important and essential to analyze water quality and understand it.

With a computer-based data management system, we monitor trends in water quality and submit an analysis report to our customers.

Sample 1 Sample 2 Sengle 30 138000588 Type of Water 100000588 Sengle 30 100000588 Sengle 70 100000588 Type of Water 100000588 Sengle 70 500000 Teme 10000 1 60000 2 PH 0.00000 7.0 3.4430 50000 3.4430 50000 3.4430 500000 3.4430 5000000 3.4430 5000000 3.4430 500000000 3.4430 5000000000000000000000000000000000000	3-4 KAJ	áson oo,ltd -18, yahata-oho, Ionji-oity, kagawa jap	AN	NO. DATE	SAM 13-7	
Sample No. 13800088 Taylor Water 5800-5000001 Strait No. 5800-5000001 Strait No. 5800-5000001 Strait No. 5800-5000001 Dear Strait No. 5800-5000001 Dear Strait No. 5800-5000001 Dear Strait No. 5800-50000000 Dear Strait No. 5800-500000000 Dear Strait No. 5800-500000000 Add Consumption/pHB. mpGACO/L. 11 Add Consumption/pHB. mpGACO/L. 11 Add Consumption/pHB. mpGACO/L. 11 Add Consumption/pHB. mpGACO/L. 11 Deards Inc. mpGACO/L. 10 Deards Inc. mpGACO/L.	ATT	TM : MR.			JULY, 28 2013	
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Date 2012/17.15 [Betrice Conductivity m5/m 6.5 less than 35 2 bH me_Grad_Columbia m6_Grad_Columbia S1.4:5 S1.4:5 3 bott Consequences me_Grad_Columbia me_Grad_Columbia Head Consequences Head Columbia Head C	-		n	Sampling Valve		1
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S Hydrames Imp(20, γL) (est bars1 less than 1 less than 2 6 Diturde lon mp(20, γL) (S diture And lon mp(20, γL) (est bars2 8 less than 30 8 Billica mp(20, γL) (est bars2 8 less than 50 less than 50 9 Inon mp(20, γL) (est bars2 8 less than 50 less than 50 9 Inon mp(20, γL) (est bars2 0.13 less than 60 less than 60 1 less than 50 less than 60 less than 60	3	Acid Consumption(pH8.3)	mgCaCO ₃ /L	-		
6 District for mgC/L 9 less than 50 7 Subtrick Acid and mgSO ₂ /L less than 50 less than 50 8 Bitca mgSO ₂ /L 8 less than 50 9 Inter Acid and mgSO ₂ /L 8 less than 50 10 mgSO ₂ /L 0.13 less than 02 10 1	4					
T. Suffurio Acid Ion mgSQ, F/L less than 1 less than 50 8 Silica mgSQ, /L 8 less than 50 9 from mgFe/L 0.13 less than 0.3 10 ess than 0.1	5		mgCaCO ₃ /L			
8 Silica mgSiQ:/L 8 less than 50 9 Bron mgFe/L 0.13 less than 0.2 11	6					
9 Iron mgFe/L 0.13 less than 0.2 10	7					
10	8					
11	9	Iron	mgFe/L	0.13		less than 0.3
	10		-			
12			-			
NOTE * out of standard value	11					

Please consider the most suitable model based on analysis of raw water.

*6 Standard value of silica concentration in the case of using treatment chemicals in the boiler.