
KRAUSEN SOFTENER SLIDE LUXE 1017

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Pictures for reference subject to real products.

User Manual

Please read this manual in details before using the product and keep it properly in order to consult in the future

Catalogue

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Note: The design and specifications are subject to the changes without prior notice. We reserve the right of interpretation to the user manual.

Preface

Thanks for choosing our softener series products. These products are featured by good softening effects, stable performance, excellent appearance, compact structure and simple handling, etc. They can meet the soften water demand of family washing, bathing, cleaning and boiling, etc. Besides, they also can be applied to supplying high quality soften water for institutions, schools, group companies, and so on.

In order to install, set, use and maintain products correctly, please do read the manual in details and strictly follow the steps to install and use the products. You can refer to this manual to solve problems that you meet during the usage. This manual and product warranty card should be kept properly.

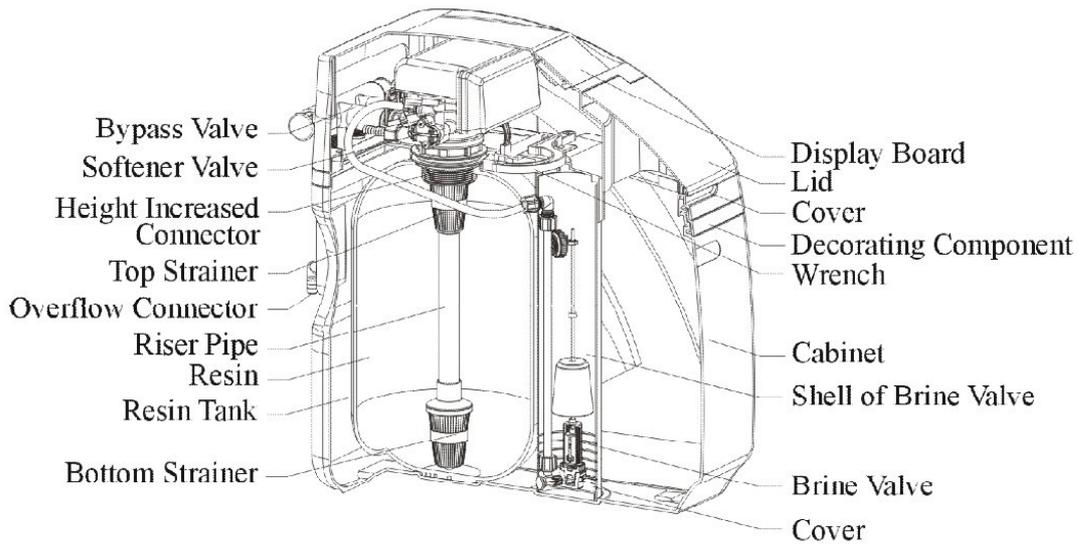
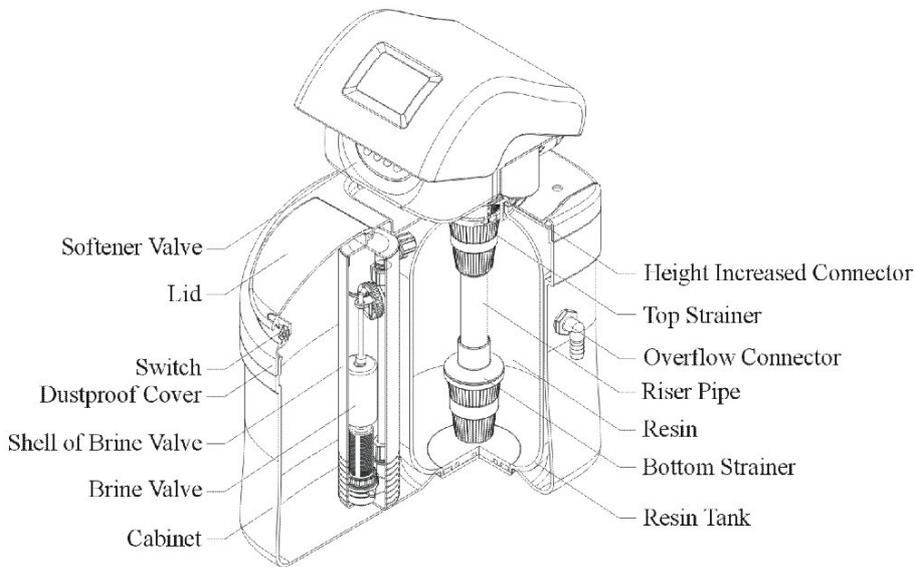
1. Product Profile

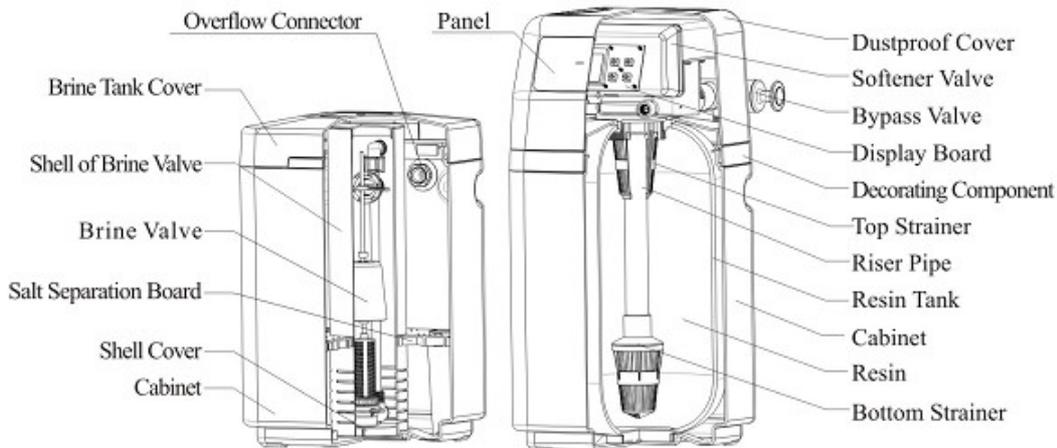
The product is working automatically and intelligently. It adopts food-grade cation resin to soften water with characteristics of big flow rate and good softening effect, efficiently reducing calcium and magnesium ion content of tap water. After the resin is saturated, the regeneration function will automatically control the product to brine and conduct regeneration, recovering the softening function of the resin. It can automatically realize the function of backwash, regeneration, brine refill and fast rinse without manual operations. **The control valve adopts LCD display screen, menu control and humanized icons, featured by concision and intuition. Users can set parameters and conduct operations according to the menu icons that display on the screen.**

2. Working Principle

Ion exchange technique is applied to the softener. It can realize the purpose of wiping off the lime scale (Calcium carbonate and magnesium carbonate) through replacing the calcium ion and magnesium ion by the sodium ion of the resin. According to the pre-set program, it can automatically control the open and close of each valve, so as to conducting softening, backwash, regeneration, slow rinse, brine refill and fast rinse.

3. Assembly & Parts





4. Function and Characteristics

1. Regeneration starts automatically: According to the regeneration time and water treatment capacity of one cycle, the system will start the regeneration program.

2. Hardness of raw water can be set: After inputting the hardness value, the control valve will automatically calculate the system water treatment capacity and display on the LCD screen.

3. Water hardness can be adjusted: It can adjust the hardness of outlet water by adjusting the bypass.

4. Automatic memory function: The parameters set by users, such as regeneration time, backwash time, brine & slow rinse time, brine refill time, fast rinse time and so on, can be saved permanently no matter how long the power is off.

5. Language: Chinese or English can be chosen.

6. Buttons lock function: No operations to buttons within 1 minute, buttons are locked. Press and hold the “” and “” buttons for 5 seconds to unlock. This function can avoid incorrect operation.

7. Regeneration mode is meter delayed type: Regenerate on the day although the available volume of treated water drops to zero (0). Regeneration starts at the regeneration time. It can avoid the shortage of water for regeneration.

8. Working automatically:

Softening: Under a certain pressure and flow rate, the raw water flow through the product, at the same time, the calcium ion and magnesium ion of raw water are replaced by the sodium ion of resin, reducing the content of calcium ion and magnesium ion and realizing the purpose of softening water.

Backwash: After the resin is saturated and lose softening efficacy, the program start backwashing before regeneration. On one hand, it can wipe off the broken resin and the impurity on surface layer of resin. On the other hand, the reversed flow direction can loosen the tight resin and make it benefit for the touch between resin particle and regeneration liquid.

Brine & slow rinse: A certain concentration brine flow through the resin. Meanwhile, the calcium ion and magnesium on the resin surface layer are replaced by the sodium ion, making the invalid resin regeneration and recovering its softening capacity.

Brine refill: The brine tank is refilled with water to dissolve the salt so as to provide the saturated brine for next regeneration.

Fast rinse: Discharge the residual brine and compact the resin particle so as to reach the best softening effect. By this step, the product automatically finished one service cycle.

5. Application

The product can be used for treating the tap water or other qualified raw water.

6. Technical Parameters

Product Parameters:

Model	Flow Rate □ L/h□	Water Capacity Per Cycle □L□	FRP Tank Dimension (Φ×h) mm	Suggested Flow Rate (L/h)	Cation Resin Volume (L)	Brine Tank Size(in)	Drain
SOFTENER SLIDE 1017	1000	3000	258×432	800~1200	12.5	1017	1/2"
			205×891	1000~1500	18	0835	
SOFTENER SLIDE 1035	1500	6000	258×891	1500~2500	28	1035	1/2"
			258×1121	1500~3200	36	1044	

※Water treatment capacity per cycle is various according to the difference water quality of different region. The standard testing conditions is: Water temperature: 25°C, Raw water hardness: 200mg/L □CaCO₃□.

※The outlet water conforms with the regulations (2001) of Safety and Function Assessment for Drinking Water Treatment Device—General Treatment Device.

※Transformer— Input : AC100□240V / 50Hz□60Hz; Output: DC12V / 1.5A

Service Conditions:

Water Pressure: 0.15-0.6MPa□

Electrical Facility: AC100□240V / 50Hz□60Hz;

Water Temperature: 5□38°C;

Environment Temperature: 4□40°C□

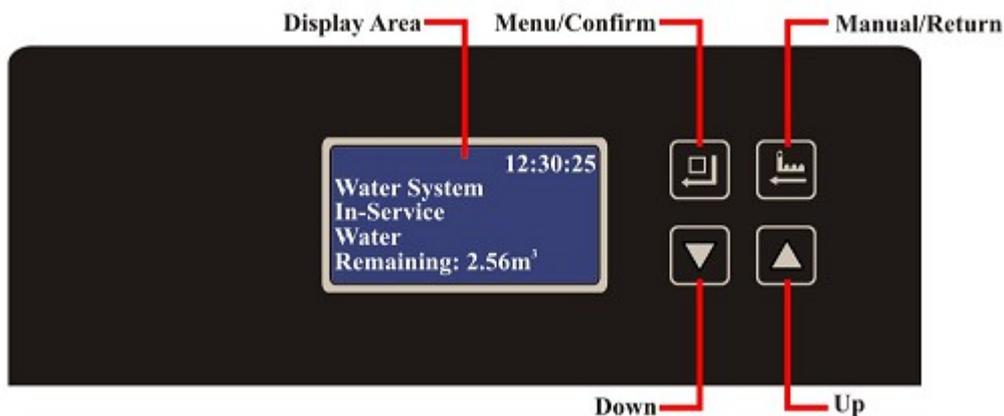
Relative Humidity: ≤90□□25°C□

7. Setting and Usage

7.1. Control Valve Setting and Usage

※The Function of Control Panel and Parameter Setting

These series products, foreground mode and background mode can be selected. Foreground mode is suitable for user and can set Time of Day, Regeneration Time and Water Hardness. Background mode can set other parameters by manufacturer, such as Backwash Time, Brine & Slow Rinse Time, Brine Refill Time, Fast Rinse Time, Resin Volume, etc.



※Parameter Setting and Inquiry in Foreground

A. Button lock indicator

 Light on, indicating the buttons are locked. At this moment, press any single button will not work (No operation in one minute,  will light on and lock the buttons.)

Solution □ Press and hold both  and  for 5 seconds until the  light off.

B. Menu/Confirm button

- Press  under the service status, the system turns into setting interface. Select the item and inquire the value.
- Under inquiry status, press  and the digits flash. It turn into setting interface, and you can adjust the parameters by press  and .
- After the setting, press  and turn into setting interface by saving the settings with a “Di” sound.

C. Manual/Return button

- Press  under the service status, the system will turn into next status immediately. (For example: If the quality of outlet water fails, after unlocking the buttons, press  in service status, it will start regeneration cycles instantly; During the cycle of regeneration, if you want to finish current steps in advance, press  and it will turn into next step at once.)
- Press  under the inquiry status, the system will turn back to service status interface; Press  under the setting status, the system will turn back to inquiry status.
- Under the setting status, press  and the system will turn back to inquiry status without saving the setting value.

D. Down and Up

- Under the inquiry status, press  or  to view all values.
- Under the setting status, press  or  to adjust values.
- Press and hold both  and  for 5 seconds to lift the button lock status.

※Parameter Setting (By users)

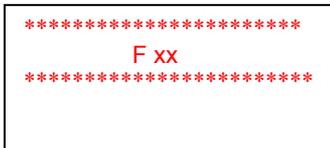
Item	Parameter Set Arrange	Factory Default	Actual Value
Time of Day	00:00 □ 23:59	Current time	
Regeneration Time	00:00 □ 23:59	02:00	
Water Hardness	50 □ 999mg/L	150 mg /L	

- Press and hold both  and  for 5 seconds under the service status, the system will turn into language selection interface.

Process Display

User Mode

After power on, L1 interface will show 3 seconds and then enter into user mode.



L1

Process display example: The meter type softener valve

12:30:25 Water System In-Service Water Remaining: 2.56m3	12:30:25 Water System In-Service Water Cur. F.R.: 1.65m3/h	12:30:35 Water System In-Service Water Regen. Time □ 02 □ 00
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Service Status 1

Service Status 2

Service Status 3

02:08:00 Water System Back Washing... Remaining: 2 min.	02:40:25 Water System Brine & Slow Rinse... Up-flow Remaining: 30 min.	03:15:50 Water System Brine Refilling... Remaining: 05:30 min.:s.
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Backwash Status

Brine & Slow Rinse Status

Brine Refill Status

03:25:50 Water System Fast Rinsing... Remaining: 3 min.	Motor Running...
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●Under the brine & slow rinse status, for 82602/82602R/41202 □ F79 □ , the display screen shows “Down-flow” or “Up-flow”, it is subject to the actual situation. “Down-flow” or “Up-flow” can be changed and selected.

●The working process is Service→ Backwash→ Brine& Slow Rinse→ Brine Refill →Fast Rinse→ Service (Cycle repeats).

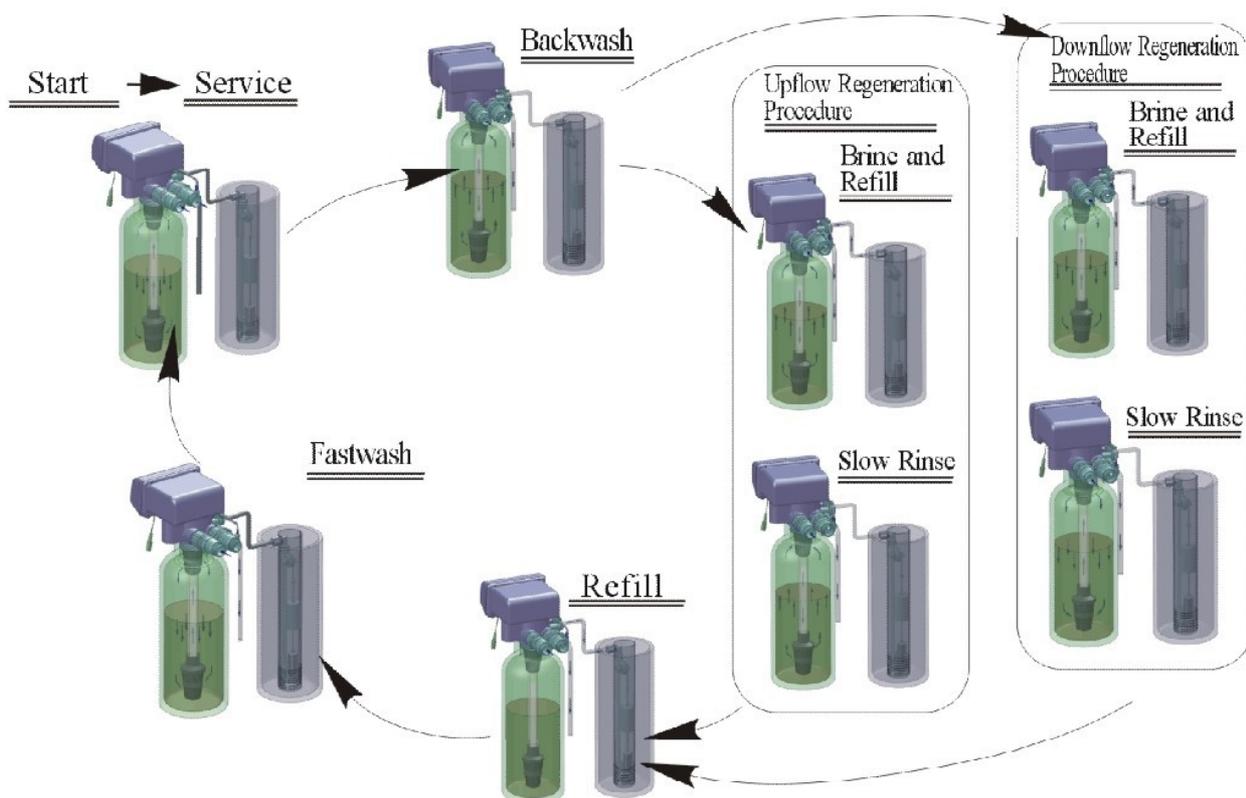
■ The meter type residential softener valve setting items and process

Items	Process steps	Symbol
Time of Day	<p>When  light on, press and hold  and  for 5 seconds until the  light off.</p> <p>1 □ Press  and enter into the interface of “Set Softener Para. ”, as the figure LR1 shows. The item of “Set Time of Day” will be selected by system automatically.</p> <p>2 □ Then press the “”, and the setting interface will display as the figure LR2; the hour value”12” flash, through  or  to adjust the hour value.</p> <p>3 □ Then press  again, the minute value “30” flash, through  or  to adjust the minute value.</p> <p>4 □ Lastly, press  and hear a sound “Di”, then finish adjustment</p>	<div data-bbox="810 548 1077 734" style="border: 1px solid black; padding: 5px;"> <p>Set Softener Para. <input type="checkbox"/>Set Time of Day <input type="checkbox"/>Set Regen. Time <input type="checkbox"/>Set Water Hardness</p> </div> <p style="text-align: center;">LR1</p> <div data-bbox="810 813 1066 958" style="border: 1px solid black; padding: 5px;"> <p>Set Time of Day 12 □ 30</p> </div> <p style="text-align: center;">LR2</p>
Regeneration Time	<p>1 □ Press  and enter into the interface of “Set Softener Para.”, as the figure LR1 shows.</p> <p>2 □ Press  and select the item of “Set Regeneration Time ”; then press , the setting interface will display as the figure LR3; hour value “02” flash, through  or  to adjust the hour value.</p> <p>3 □ Then press , the minute value “00” flash, through  or  to adjust the minute value.</p> <p>4 □ Lastly, press  and hear a sound “Di”, then finish adjustment.</p>	<div data-bbox="810 1377 1053 1523" style="border: 1px solid black; padding: 5px;"> <p>Set Regen. Time 02 □ 00</p> </div> <p style="text-align: center;">LR3</p>

<p>Water Hardness</p>	<p>1 □ Press  and enter into the interface of “Set Softener Para.”, as the figure LR1 shows.</p> <p>2 □ Press  twice and select the item of “ Set Water Hardness ”; then press , the setting interface will display as the figure LR4; hardness value 150” flash, through  or  to adjust the hardness value.</p> <p>3 □ Lastly, press  and hear a sound “Di”, then finish adjustment.</p>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>Set Water Hardness 150mg/L</p> </div> <p style="text-align: center;">LR4</p>
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Illustration: After setting the water hardness, the display screen will show the total water treatment capacity or remaining water. If you think the water treatment capacity is too low to meet your demand, you can adjust the capacity by setting the water hardness. Under the condition of not affecting the outlet water quality, lowering the water hardness value can increase the water treatment capacity.

7.2. Residential Softener Flow Chart



7.3. The Installation and Usage of Brine Valve

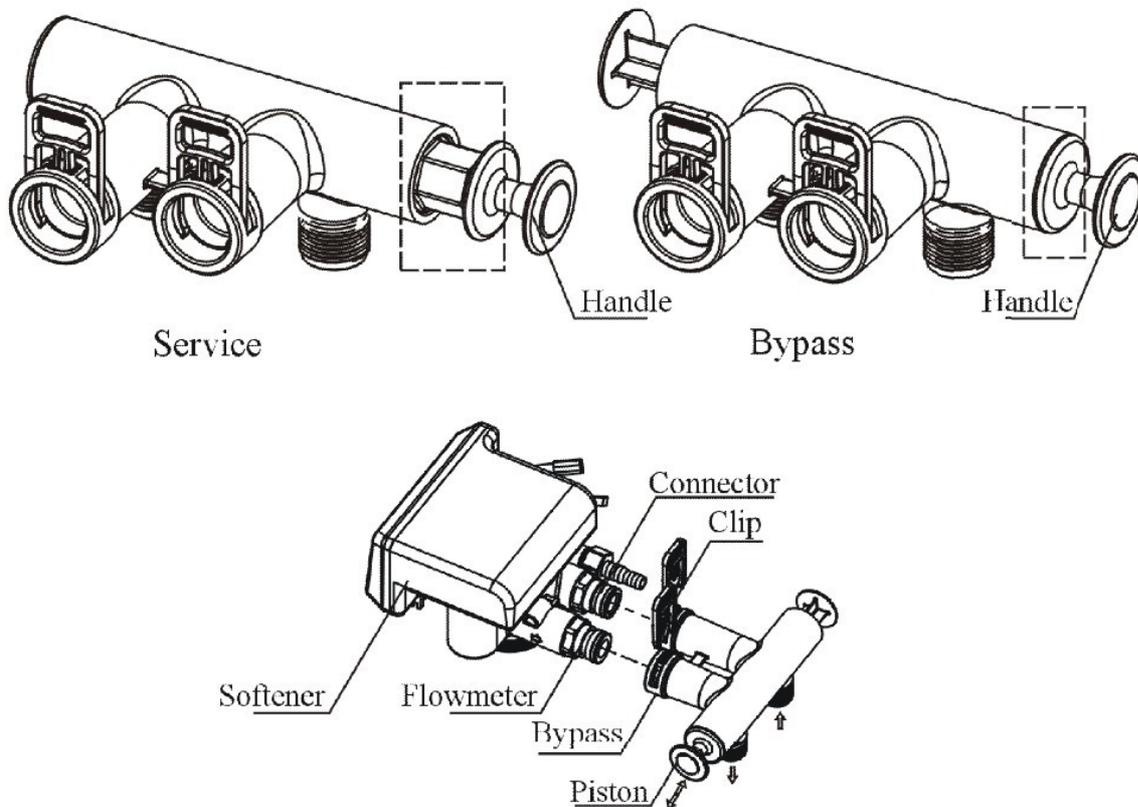
The brine valve plays two roles in the whole system: First, under the brine and slow rinse status, with the floating ball, the brine valve can prevent the air from being inhaled which may affected the regeneration and usability. That is, the brine valve has the function of air check. Second, under the

brine refill status, the brine valve can control the volume of refilling water by controlling the position of floater.

7.4. The Installation and Usage of Bypass Valve (Optional)(Take

F70C/F70D as example, if you use the other model of bypass valve, please refer to the appendix manual.)

The valve has the function of bypassing. When the piston is pushed to the position of inlet and outlet, the valve is in service status; When it is at bypass position, the valve is in bypass status. It adopts quick joint structure to connect the valve with bypass valve, with the characteristics of reliable sealing, quick and convenient installation.(Refer to the below pictures)

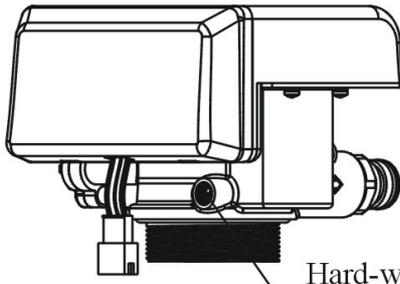


7.5. The Operations of the Valve with The Function of Mixing Water

(Optional)

If the users think the hardness of outlet water is too low, they can adjust the hardness by using the function of mixing water according to the actual demand.

Operation: Anticlockwise rotates the adjusting bolt (As the picture shows). The wider angle is, the higher outlet water hardness will be.



Hard-water Mixing Button

8. Usage Illustration

After installing the device and setting the relevant parameters, please conduct the trial running as follows:

※Fill the brine tank with the planned regeneration salt and the water □ Refer to the below table □, making the brine is saturated (26%). Then start the device (This step is necessary only for the situation that the device is put into use for the first time.)

Resin Tank	0713	0717	0817	0835	1017	1035	1044
Water (L)	4	5	7	12	10	16	20

※Switch on power. Press  and go in the Backwash status. Slowly open the inlet valve to 1/4 position (Avoiding to open the valve too quickly to damage the device and make the resin run off). At this moment, you can hear the sound of air-out from the drain pipeline. After all air is out of pipeline, then open inlet valve completely and conducting 2□3 minutes backwash, cleaning the foreign materials in the resin tank until the outlet water is clean.

※Press , turn the status from Backwash to Brine& Slow Rinse. Under this status, the brine will be absorbed from the brine tank into the resin and the resin is regenerated. After absorbing, the brine valve will close. The system will still conduct about 15 minute's slow rinse, wiping off the residual brine. The whole process will take about 40 minutes to finish.

※Press  and turn into Brine Refill status. The brine tank will be refilled with water to dissolve the salt. When the level controller reaches the required height, the refilling will be stopped. The new saturated brine will be used for next regeneration.

※Press  and turn into Fast Rinse status, starting to Fast Rinse. About 3 minutes fast rinse will discharge the residual brine and compact the resin particle so as to reach the best softening effect.

※When the sample outlet water is qualified, press  and finish the Fast Rinse. Then the device turns into Service status and start running.

Illustration: Under regeneration cycle, the softener water will stop flowing out from the outlet and each status will be completed automatically according to the setting time. If you want to finish one step in advance, you can press .

※During the trial running status, check each port. There should no mineral media flow out. **Check each connection, ensure there is no leakage.**

※The time of backwash, brine & slow rinse, brine refill, fast rinse, etc. could be suggested by dealer or professional personnel.

Notice: Under normal situation, user does not need to do any operation except adding a certain amount of salt into the brine tank.

9. Notice

Before reading and understanding the user manual, please do not operate the device.

※To ensure normal operation of the product after installed, please consult with professional installation or repairing personnel before use it.

※Forbid installing the device near heat source or take anti-heat protective measures when install near the heat source. It is also forbidden to connect the device with the hot-water pipeline or the pipeline with the possibility of hot-water returning. Forbid the product under the temperature lower than 1°C. Protect resin from freezing which may result in resin broken and disabled.

※If the raw water fails to meet the standards of local tap water, such as the sediment concentration or residual chlorine content exceed the stand, etc., the pretreatment device should be installed before the device.(Such as Y type filter, ultra filter, and so on.)

※During the operation, please check the brine tank regularly to ensure there is brine in the tank. And when adding brine, please make sure that volume of brine should be 2/3 of the tank. When it is less than 1/3, please add in time. (Attention: Make sure the dissolving salt time is more than 6 hours so as to make the brine saturate)

※Please strictly use the salt of more than 99% purity only. Any salt with additive or large particles is forbidden to add.

※Please use this product under the water temperature between 5 °C ~ 45°C, water pressure 0.15 ~ 0.6MPa. Failure to use this product under such conditions voids the warranty.

※Sodium used in the water softening process should be considered as part of your overall dietary salt intake. Contact doctor if you are on a low sodium diet.

※Without being used for a long time or the pressure of the inlet water is instable, please close the inlet port and turn off the power. Before using again, please firstly conduct a regeneration cycle through manual operation so as to ensure the quality of soften water.

※ If the water demand is increasing (Compared to usual demand) or the hardness of raw water is rising, please reduce the regeneration cycle and increase the regeneration times, ensuring the soften water yield. (For meter type product, there is no affect of water demand increasing.)

※ When use the softener for the first time or the device is idle for long period, it is normal that the outlet water is yellow. Please put into use after 2~3 minutes' rinsing.

※ Sometimes the brine in the brine tank will forms salt bridge. That is, there is a space under the brine which prevents the salt from being dissolved and hinders the resin regeneration. It is suggested to check regularly. If there is salt bridge, please mash it.

※As the product is constantly updating, the possibility that the manual instruction can't accord with the product may happen. So, it is subjected to the actual product.

Special notice: The water pressure of tap water is changeable (Normally the pressure in night time is higher than day time.) , so pay attention to each connection to check if there is any leakage at the first two days after products installed.