

RUNLUCKY 润莱®

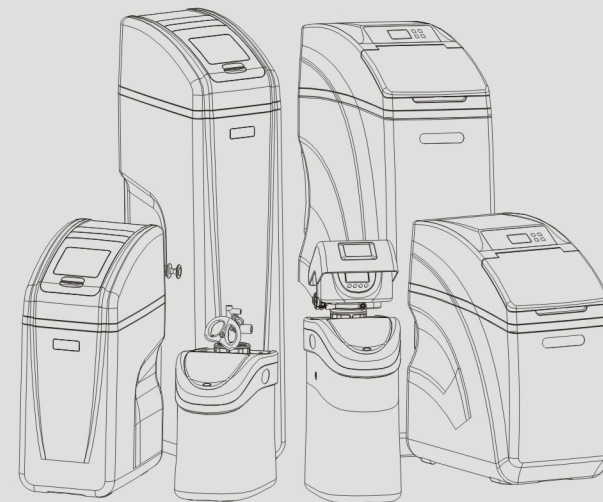
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RUNLUCKY 润莱®

Residential Softener

RL-RA-500
RL-RA-1000
RL-RA-1500



※Pictures for reference subject to real products

Instruction Manual

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

0WRX.466.540

Catalogue

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Preface

The RL-RA softener series products are launched by Wenzhou Runxin Manufacturing Machine Co., Ltd. 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.

Thanks for choosing RUNXIN's softener series products. In order to correctly install, set, use and maintain products, 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.

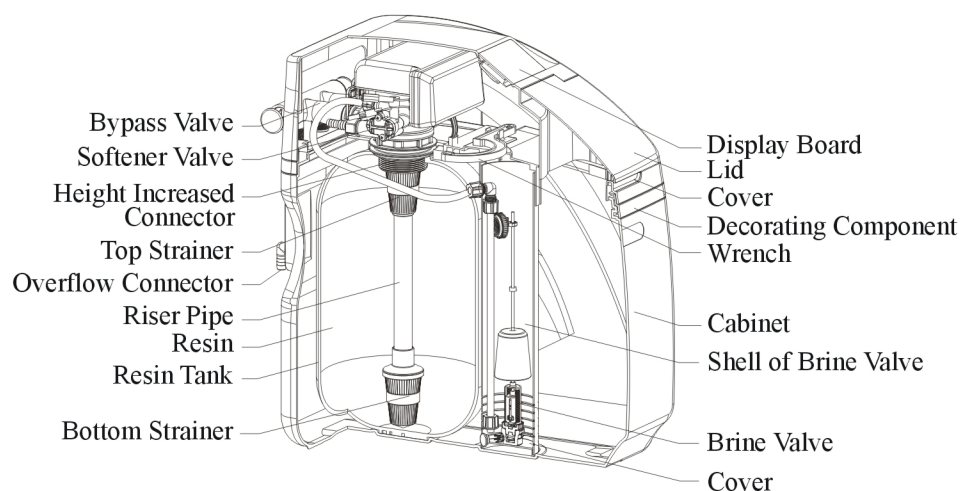
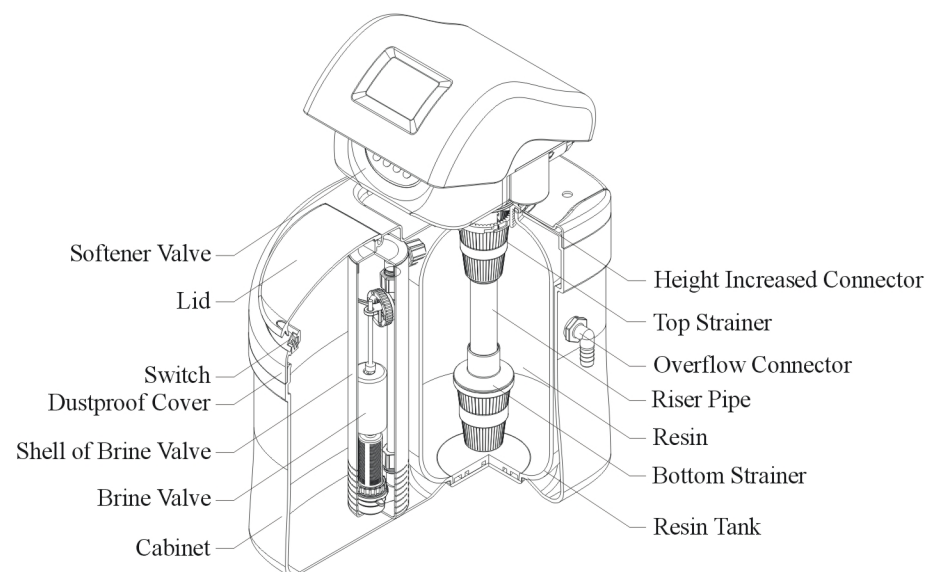
1. Product Profile

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 the ion content of tap water, such as calcium and magnesium ion, etc. 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 hommization 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 functional group. 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 control valve.
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 for good no matter how long the power is off.
5. Language can be chosen: Chinese or English can be chosen so as to meet the habit of users.
6. Buttons lock function: no operations to buttons on the controller 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 and attached to the 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 attached to the surface 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 and Regeneration: a certain concentration brine flow through the resin. Meanwhile, the calcium ion and magnesium attached the resin surface 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. Product Dimensions

Type	Resin Tank Size (Φ Xh)mm	Resin Volume (L)	Brine Valve Specification (in)	N.W (Without Salt)	Overall Dimension (mm)	G.W.	Outer Packing
RL-RA-500	180X325	4.0	0713	≤11Kg	380X230X455	≤12Kg	456X241X535
	180X430	5.5	0717	≤17.5Kg	380X230X595	≤19Kg	451X241X670
	200X430	7.5	0817	≤20kg	440X260X625	≤23kg	520X340X710
RL-RA-1000	250X430	11	1017	≤24Kg	525X326X615	≤29Kg	600X405X700
	200X890	16.5	0835	≤31.5kg	440X260X1092	≤35kg	520X340X1175
RL-RA-1500	250X890	25	1035	≤43Kg	525X326X1070	≤48Kg	600X405X1150
	250X1120	33	1044				

6. Application

The product can be used for treating the tap water or other qualified raw water. (It accords with the relevant regulations that mentioned in the No.161 document—“Sanitary Standard for Drinking Water Quality”, which was published in the <2001> by Ministry of Public Health).

7. Technical Parameters

Product Parameters:

Type	Flow Rate (L/h)	Water Capacity Per Cycle (L)	Rated Total Water Capacity (L)	Inlet/Outlet	Regeneration Mode	Drain
RL-RA-500	500	1000	100000	3/4"	Meter delayed	1/2"
RL-RA-1000	1000	3000	300000	3/4"	Meter delayed	1/2"
RL-RA-1500	1500	6000	600000	3/4"	Meter delayed	1/2"

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

※ The outlet water conforms with the regulations (2011) 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℃;

Environment Temperature: 4~40℃;

Relative Humidity: ≤90% (25℃)

8. Installation

8.1. Installation Notice

※ The product is prohibited to be tilted or laid down during the transportation, installation and usage.

※ Place the product on the flat surface that can bear the weight more than 300kg/m² are water inlet and water outlet, drain pipeline and sewage in the workplace. For the automatic product, it also needs the AC power receptacle.

※ Generally, the products are installed in the equipment room, underground garage (These place should have water inlet pipeline, water outlet pipeline, drain pipeline and sewage). Or they can be connected with the main water inlet of the place, such as villas, apartments, schools or business establishments, etc. If it is necessary, you can install the product outdoor. However, you should take some protective measures to prevent the product from being frostbiting, basking and water.

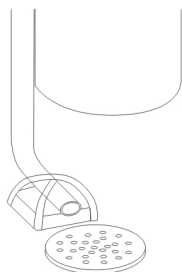
※ Do not put the product near the place with alkaline and acid substance or gas, avoiding being corrosion.

※ The suitable pressure for softener is between 0.15Mpa and 0.6Mpa. Booster pump or a relief valve is necessary when the inlet pressure is lower or higher than standard.

※ As the inlet water hardness is related to the softening effect and softening cycle, so for this series product, when using reagent to measure the inlet water hardness,

please make sure the hardness of inlet water is lower than 400mg/L.

- ※ Make sure a check valve is equipped between the device and water heater when a heating stove or water heater is connected behind the device, in case of hot water reflux and damage the inner system of the product.
- ※ Separate sewer line for the device is required. 5 to 10cm clearance must be maintained between the drain pipe and floor drain, in case of siphon and cause valve damage by the waste water.(Installation refer to below picture)



- ※ Before installing the pipeline, please clean the residual impurity and dust in the pipeline. After the main water inlet is closed, connect it with the device.
- ※ All of pipeline that used should meet the relevant regulations, and the installation should accord with the local installation rules.
- ※ When install, please keep a certain operation space for adding salt, cleaning and maintaining.

8.2. Installation and Connection

- ※ Pipeline installation and connection should conform to the local installation rules. Inlet/outlet should be connected with the water pipe in the same axis (Refer to the below installation picture). The position of inlet and outlet shouldn't be reversed.
- ※ The DLFC that we support must be inserted into the drain outlet. The inlet, outlet pipeline, drain line and overflow pipeline should be connected in sequence and make sure there are no leakage of each joint. It is suggested to use hose pipe to connect the softener with inlet, outlet, drain connector and overflow connector. (Attention: the pipe fitting and valves that used should be made of 304 stainless steel, alloy copper forging, or high strength engineering plastics, etc. the iron pipe fitting and valves is forbidden to be used).

- ※ It is suggested to install a manual bypass valve between the main water inlet and inlet/outlet of the device, making it convenient for installation and maintenance. (Refer to the below installation picture).

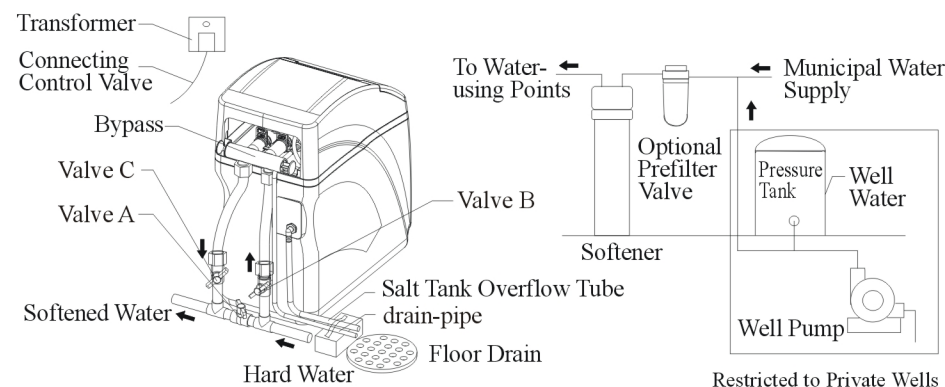


Illustration: install three ball valves to connect the control valve and inlet/outlet pipeline. The valve B is connected with the inlet of the control valve; the valve C is connected with the outlet of the control valve. When repair the tank, please open the valve A and close the valve B and valve C; When normally use, please close the valve A and open the valve B and valve C.

- ※ Control valve should be higher than sewer. The drain line and overflow line shouldn't exceed two meters and also be higher than sewer. The cut-off equipment is forbidden to be mounted on the drain line. The materials that used for pipe sealing only can be PTEF.
- ※ Each pipeline should be supported with fixed holder independently, avoiding the control valve be damaged by bearing the gravity from the pipeline.

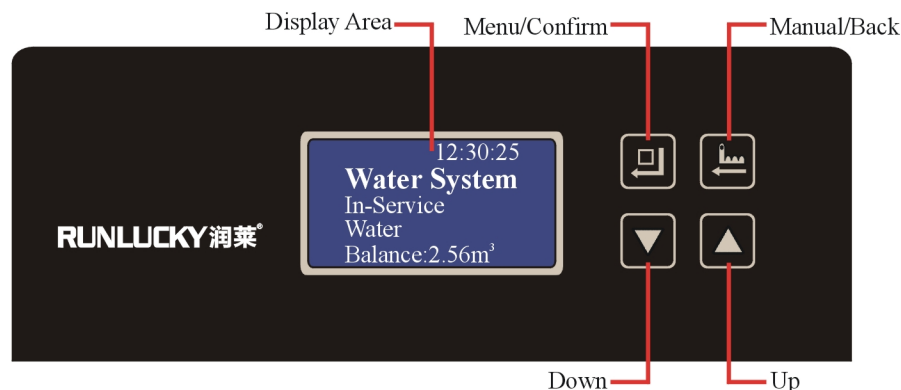
Notice: Please make sure the drain line and overflow line is connected and close to sewer, making the waste water flow into the sewer rapidly.

8.3. Setting and Usage

※ The Function of Control Panel and Parameter Setting

For RUNLUCKY RL-RA series products, foreground mode and background mode can be selected. Foreground mode is suitable for user and can set Clock, Regeneration Time, and Feed Water Hardness, etc. Background mode can set other

Parameters by manufacturer, such as Backwash Time, Brine & Slow Rinse Time, Refill Time, Fastwash Time, and Resin Volume, etc.



Foreground parameter enquiry and setting

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 enquire the value.
- Under enquiry 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 finish current status and 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 finish current steps in advance, press and it will turn into next step at once.)
- Press under the enquiry status, the system will turn back to service status interface; press under the setting status, the system will turn back to enquiry status.

- Under the setting status, press and the system will turn back to enquiry status without saving the setting value.

D. Down and Up

- Under the enquiry 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
Clock	00:00~23:59	Current time	
Rchg Time	00:00~23:59	02:00	
Water Hardness	50~400mg/L	150mg/L	

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

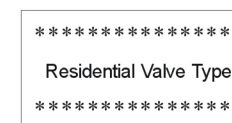
Process Display

User Mode

After power on, L1 and L2 interface will show 3 seconds separately, and then enter into user mode.



L1



L2

Process display example: the meter type softener valve — 82602/82602R/41202 (F79)

12:30:25 Water System In-Service Water Balance:2.56m³	12:30:35 Water System In-Service Water Flow Rate:3.65m³/h	12:30:45 Water System In-Service Water Trig time:02:00	02:08:00 Water System Back washing... Left: 2min.
Service Status 1	Service Status 2	Service Status 3	Backwash Status

02:40:25 Water System Brine & Slow Rinse ... Up-Flow Left: 30min.	03:15:50 Water System Refilling ... Left: 5min.	03:25:50 Water System Fast washing ... Left: 3min.	Motor Running...
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Brine & Slow Rinse Status Refill Status Fastwash Status Motor Running

● Under the brine & slow rinse status, for 82602/82602R/41202 (F79) , the display screen shows “Down-flow ” or “Up-flow ” , it is subjected to the actual situation. “Down-flow ” or “Up-flow ” can be changed and selected.

● For 82602/82602R/41202 (F79) –the meter type softener valve, the working process is Service→ Backwash→ Brine& Slow Rinse→ Brine Refill → Fast wash→ Service (So circulate).

■ 82602/82602R/41202 (F79) –the meter type residential softener valve setting items and process

Items	Process Steps	Symbol
Clock	When light on, press and hold both and for 5 second until light off. 1. Press and enter into the interface of “Soft-Volume Para. Set” , as the figure LR1 shows. The item of “Clock” will be selected by system automatically. 2. Then press , and the setting interface will display as the figure LR2; the hour value “12” flash, through or to adjust the hour value. 3. Then press again, the minute value “30” flash, through or to adjust the minute value. 4. Lastly, press and hear a sound “ Di”, then finish adjustment	Soft-Volume Para. Set » Set Clock Set Rchg Time Set Water Hardness LR1
		Set Clock 12 : 30 LR2
	1. Press and enter into the interface of “Soft-Volume Para. Set” , as the figure LR1 shows.	

Regeneration Time	2. Press and select the item of “Set Rchg Time ” ; then press , the setting interface will display as the figure LR3; hour value “02” flash, through or to adjust the hour value. 3. Then press again, the minute value “00” flash, through to adjust the minute value. 4. Lastly, press and hear a sound “ Di ”, then finish adjustment.	Set Rchg Time 02 : 00 LR3
	1. Press and enter into the interface of “ Soft-Volume Para. Set” , as the figure LR1 shows. 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. 3. Lastly, press and hear a sound “Di”, then finish adjustment	Set Water Hardness 150mg/L LR4

Illustration: after setting the feed 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 feed water hardness. Under the condition of not affecting the outlet water quality, lower the feed water hardness value can increase the water treatment capacity.

Background parameter enquiry and setting

A. Enter into background mode

Within 6 seconds of the L1, L2 displaying, press and hold and for more than 3 seconds to enter the background setting menu. The interface as the H1 shows (including H1-1, H1-2 and H1-3)

B. Setting Parameters





















Under the background mode, you can set the parameter as below: mode, valve model, control type, resin volume, interval regeneration time, backwash time, brine & slow rinse time, fastwash time, service time, brine draw type, etc.

» Set Mode—Softener. Set Valve Mode—F79 Set Type—Volume Set Resin Vol.—8L Set Brine—Up-Flow ↓	» Set Rchg Day—30Days Set Backwash—2Min Set Brine—30Min Set Refill—5Min Set Fastwash—3Min
H1-1	H1-2

Set Mode <input type="radio"/> Purifier <input checked="" type="radio"/> Softener	Set Valve Mode <input type="radio"/> F69 ↓ <input type="radio"/> F82 <input checked="" type="radio"/> F79	Set Type <input type="radio"/> Time <input checked="" type="radio"/> Volume	Set Resin Vol. 11L
A1	A2	A3	A4

Set Brine <input checked="" type="radio"/> Up-flow <input type="radio"/> Down-flow	Set Rchg Day 30days	Set Backwash 3 min.	Set Brine 30 min.
A5	A6	A7	A8

Set Refill 5 min.	Set Fastwash 3 min.
A9	A10

- ①In the H1 interface, select the “Mode” and press , as the figure A1 shows. Press  or  to select the mode that you need. After that, Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ②In the H1 interface, select “Set Valve Mode” and press , as the figure A2 shows. Press  or  to select the matched valve typ. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ③In the H1 interface, select “Set Type” and press , as the figure A3 shows. Press  or  to select the control type that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ④In the H1 interface, select “Resin Vol.” and press , as the figure A4 shows. Press  or  to select the matched resin volume. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.































- ⑤In the H1 interface, select “Set Brine” and press , as the figure A5 shows. Press  or  to select the brine draw type that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.(This item is only for F79 and F82 product)
- ⑥In the H1 interface, select “Set Rchg Day” and press , as the figure A6 shows. Press  or  to select the interval regeneration day that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ⑦In the H1 interface, select “Set Backwash” and press , as the figure A7 shows. Press  or  to select the backwash time that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ⑧In the H1 interface, select “Set Brine” and press , as the figure A8 shows. Press  or  to select the brine &slow rinse time that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ⑨In the H1 interface, select “Set Refill” and press , as the figure A9 shows. Press  or  to select the brine refill time that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.
- ⑩In the H1 interface, select “Set Fastwash” and press , as the figure A10 shows. Press  or  to select the fast rinse time that you need. Press  to save the setting and turn back to H1; or press  to turn back to H1 without saving the setting.

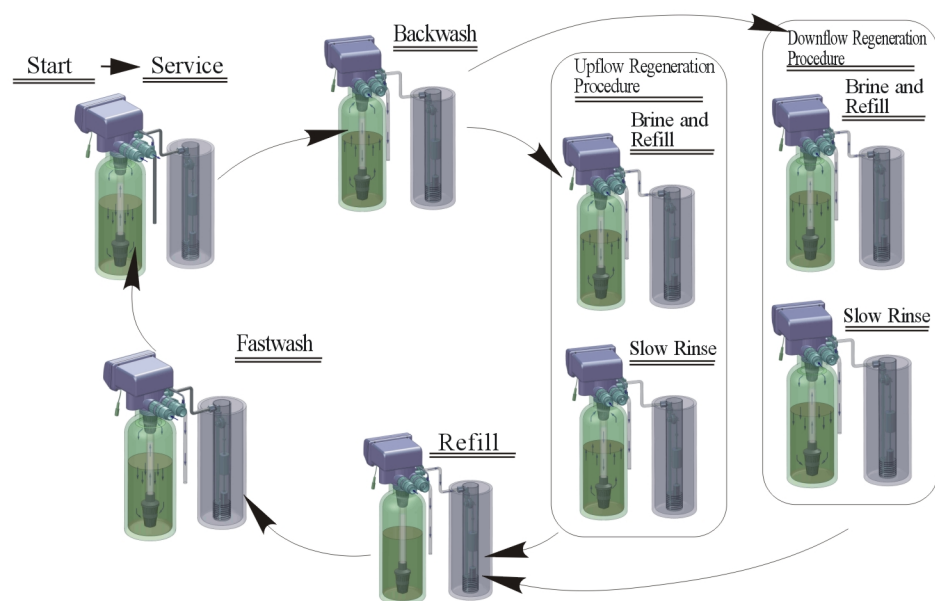
Illustration: For the RL-RA series products, you needn’ t set the background parameters. All of them are already set by manufacturer according to the product type and specification. If you have to reset, please makes sure the work is done by profession.

✖Parameter Set (Only for factory or professional dealer)

Parameter	Unit	Factory Default		Actual Value
Backwash Time	Min.	03		
Brine &Slow Rinse Time	Min.	0713	32	
		0717	32	
		0817	36	
		0835	50	
		1017	40	
		1035	55	

Brine Refill Time	Min.	0713	03
		0717	04
		0817	04
		0835	06
		1017	05
		1035	07
Fastwash Time	Min.	05	
Interval Regeneration Days	D.	30	

8.4. Residential Softener Flow Chart

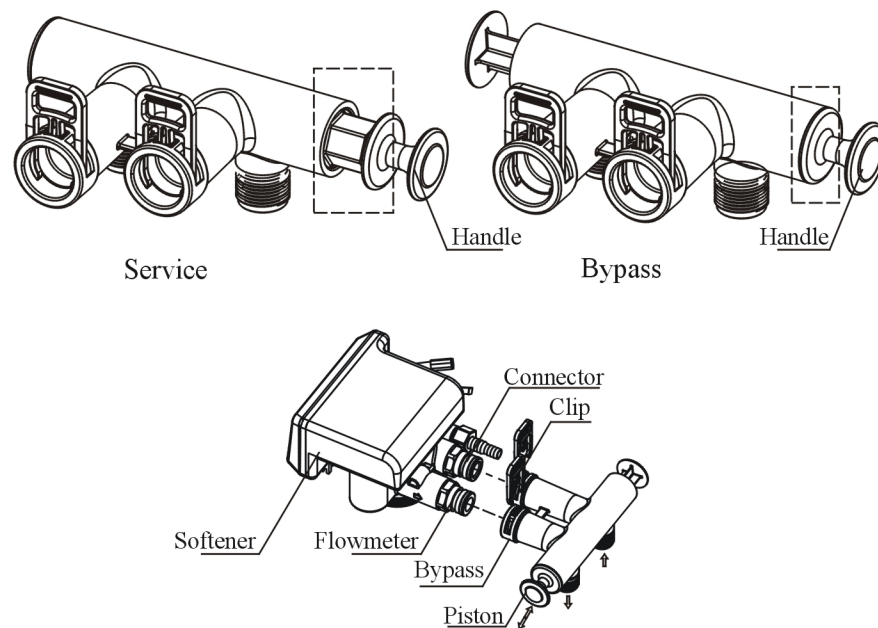


8.5. The Installation and Usage of Brine Valve

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 affect 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.

8.6. The Installation and Usage of Bypass Valve (Optional)

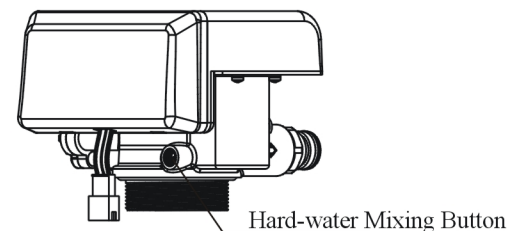
The valve has the function of bypassing. When the piston is pushed to the position of inlet and outlet, the valve is in service status; while, when it is at bypass position, the valve is in bypass status. It adopts quick joint structure to connect the valve with bypass valve, with the characteristics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



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





9. Usage Illustration


After installing the device and setting the relevant parameter, 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 in 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 , turning 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 .

Notice: under normal situation, user needn't do any operation except adding a certain amount of salt into the brine tank.

10. Notice

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

※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.

※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.

※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.

※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.

11. Troubles-Shooting

Before maintenance, please check following information

Trouble details	Cause	Solution
Control valve fail to work.	1.Power plug isn't plugged in. 2.Socket breakdown. 3.Power outage. 4.Transformer damaged.	1.Connect to power. 2.Repair or replace socket. 3.Check the circuit and power supply. 4.Replace the transformer.
Regeneration time is incorrect.	1. Time of day doesn't set correctly. 2. Power failure more than 3 days. 3. Bad contact.	Reset the time.
Leakage.	1.Connector loose. 2.O-ring broken.	1.Screw tight connector or reconnect. 2.Replace O-ring.
Noise.	Air is in device.	Re-backwash, empty air.
High hardness of outlet water.	1.Not good quality of raw water. 2.Too long time of regeneration period. 3.Bypass is open.	1.Contact with supplier. 2.Shorten regeneration cycle time. 3.Close bypass.
Brine failure or brine deficient.	1.Low inlet pressure. 2.Brine pipe hindered. 3.Injector broken. 4.Brine pipe air leakage.	1.Increase inlet pressure, more than 0.15Mpa. 2.Check and eliminate the blockage. 3.Replace injector. 4.Check brine pipe components, eliminate leakage.
Brine tank water overflow.	1.Too long time of brine refill. 2.Too much water left after brine.	1.Shorten brine refill time. 2.Check brine status.
No soft water after regeneration.	1. Valve broken. 2.Low inlet pressure. 3.No salt in brine tank. 4.Injector hindered. 5.Riser pipe o-ring broken.	1.Replace the controller. 2.Increase inlet pressure. 3.Add salt and manual regenerate. 4.Disassemble injector then clean, assemble it. 5.Replace o-ring.
Too big or too small flow rate of backwash.	1.Without flow restrictor. 2.Foreign material in flow restrictor.	1. Install flow restrictor. 2. Clean foreign material.
Salty water.	1. Low inlet pressure. 2. Drain pipe or limiting washer hindered. 3. Excessive amount of saturated salt solution in brine tank. 4. Short time of fast rinse.	1. Install pressure pump. 2. Eliminate block. 3. Decrease amount of refill water. 4. Extend fast rinse time.

Drain port continually drain.	1. The blackout control valve is not reset. 2. Leakage happens in control valve. 3. Foreign material get stuck in control valve.	1. Adjust program position to service. 2. replace control valve. 3. Eliminate foreign material.
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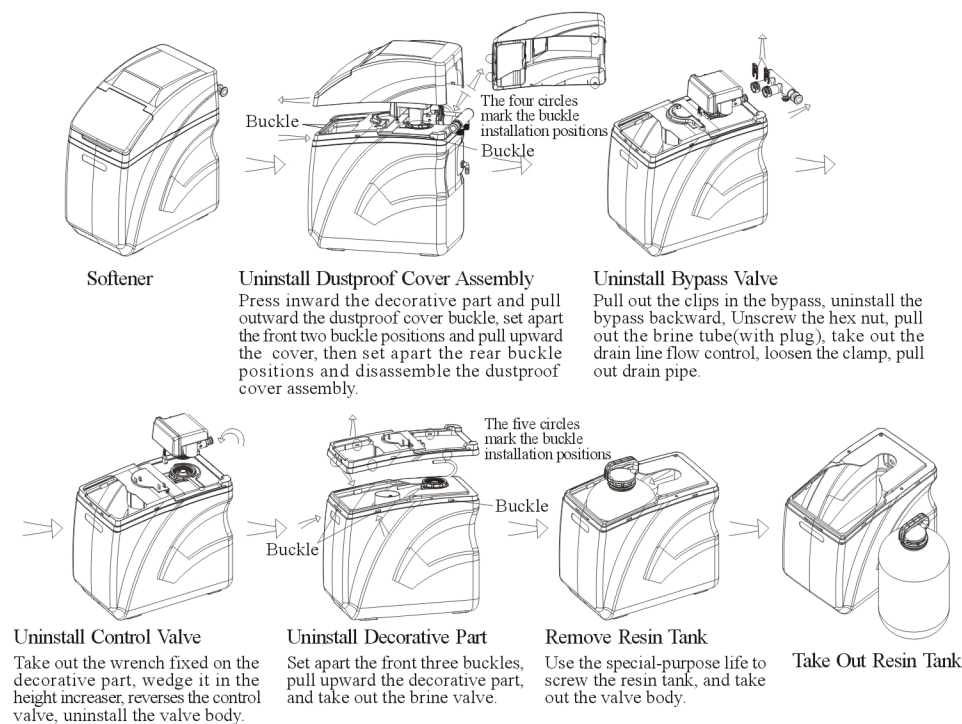
12. Maintenance

※Before check-up please turn off the softener inlet valve or bypass valve to bypass position.

※Prohibit the use of harmful health detergents or chemicals to clean, wipe the device.

※Wipe with a moistened soft fabrics to clean equipment surface dust and foreign matter, avoid the water into the valve internal erosion electrical components causing damage.

※Disassembly way (Before disassembly, the device should be under brine status that will make it convenient for maintenance)



13. Warranty Guidance

Dear Customers:

Thanks for use RUNLUCKY softener. For the protection of your rights, please read the manual and warranty guidance in details before using our products, so that we can service you better.

※ “Three Guarantees” period is one year since the purchase date (Refer to the date of guarantee card or other provable documents)

※ During the guarantee period, maintenance is free if the damage is caused by the product quality problems. However, if the damage is caused by user, we will charge you a certain fees.

※ When guarantee period is expired, we will still provide after-sales service, such as maintenance, changing resin, supplying parts, etc. The fee of materials and service will be charged according to our latest charging standards

※ It couldn't be repaired free of charge under the below conditions:

- Resin, seal, decoration shell, the coating of appearance, etc.
- The damage is caused by force majeure, such as fire, flood, electric shock, earthquake, etc.
- The damage is result from the disassembly or refits by user or repair by non-scheduled maintenance unit.
- The damage is caused by the properly transportation, installation, usage and maintenance.
- Content in guarantee proof is unconfirmed with the label on the real good or be altered.
- User can't provide the guarantee card or other proofs.

※ The product dealers are responsible for the maintenance and other after-sales service. (The guarantee card or other proof is effective with the dealers' stamp or our company's stamp)

※ Please keep the guarantee card properly and provide it when maintenance.

14. Contact Information

Add: Jinger Road, shatou Group, lingjiang, lucheng District, wenzhou, zhejiang, China

Tel: 86-577-88616681 86-577-88630038 Zip Code: 325029

After-sale service: 86-577-85959192 Email: sales@run-xin.com

Web: <http://www.run-xin.com>