Under Sink Type Residential Softener for High Hardness Water

RL–R100M

User Manual

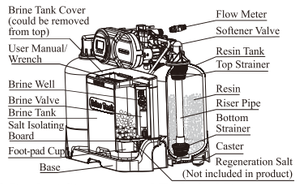
Please read this manual in details
before using the product and keep it properly in
order to consult in the future.

0WRX.466.691
Rev. A. 1808

1.Product Profile

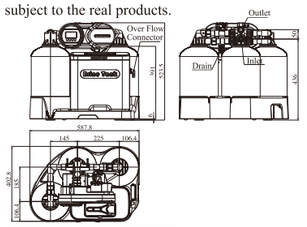
This product is mainly used for the softening treatment of hard water containing high calcium and magnesium ions, especially apply to the installation and use of small space in the home cabinet. With excellent effect of softening, the water treatment capacity of the unit volume resin of this product is about 50% higher than that of the traditional residential softener and the consumption of regeneration salt and water are reduced by about 50%.

2.Assembly & Parts



3.Product Structure and Technical Parameters

The appearance is just for reference, please be subject to the real products.



Model	Inlet	Outlet	Drain/Overflow
RL–R100M	G3/4	G3/4	Ø14(Connect flexible pipe)

Main Technical Parameter	
Nominal Pressure:0.6MPa Water Temperature:5℃~45℃	
Maximum Water Treatment Capacity	1.5m^3/h
Transformer Input	AC100~240V/50~60Hz
Transformer Output	DC12V，2.0A

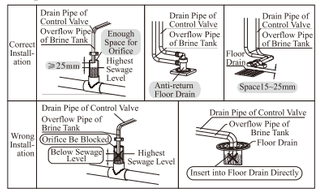
4.Installation Note

4.1 To ensure the correct use of the product after installation, please confirm with the professional installation or maintenance personnel before using.

4.2 Any installation work of plumbing or electricity must be completed by professionals.

4.3 The base of this product is specially equipped with a handle as a support to avoid using other parts as a handle.

4.4 In order to ensure the safety of use, the equipment should be discharged by separate sewage pipes, and the water outlet of the equipment should adopt anti-return measures to avoid the phenomenon of sewage flowing into the equipment through the drain pipe or the overflow pipe of the salt tank due to poor drainage or siphon, etc.



4.5 Pipe connection should avoid pipe stress, and when connecting with metal pipe, it must be inserted into with correct thread but not with force.

4.6 The parameters should be adjusted according to

the different working conditions and the requirement of water outlet during softening.

4.7 The water quality should be inspected periodically during operation to ensure the normal service of the system.

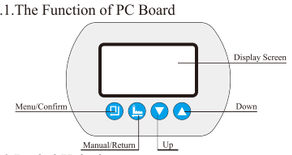
4.8 During the operation, please check the brine tank regularly to ensure there is crystalline coarse salt in the tank. Please strictly use the salt of more than 99% purity only. Any salt with additive or large particles is forbidden to add.

4.9 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.

4.10 For the first operation, the parameters setting of "raw water hardness" please see Chapter 5 for details. There is a reagent for hardness test in the attachment of this product. For the first time, the reagent should be used for the hardness test of the raw water (the detailed method please see the instruction of the reagent), the test value is the set value of "raw water hardness" parameter. After finishing the test, please properly settle it and keep it away from children.

5.Setting & Usage

5.1.The Function of PC Board



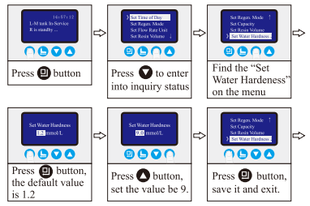
5.2.Lock &Unlock

Under any status, no operation in one minute, 🔒 will light on and lock the buttons.

Press and hold the ▼ and ▲ buttons for 5 seconds until 🔒 light off to unlock.

5.3.Setting Raw Water Hardness

Under unlock status, you can adjust raw water hardness, like setting 1.2mmol/L to 9mmol/L. Detailed procedures are as follows:



Notice: The system will exit without storage when you press L during setting.

The regeneration parameters have been set when control valve left factory. Generally, it does not need to reset. If you want enquiry and modify the setting, you can refer to above specification.

5.4. Parameter Set Range & Factory Default

Setting Parameter	Parameter Set Range	Factory Default	Remark
Time of Day	00:00~23:59	Random	
Control Mode	A–01/02/03/ 04/11/12/13/14	A–03	Down-flow intelligent meter delayed regeneration
Flow Rate Unit	m^3/gal/L	m^3	
Resin Volume	5~500	7	
Raw Water Hardness	0.1~15.0	1.2	
Regeneration Factor	0.30~1.99	1.4	Setting regeneration factor to 0.98 when require water hardness ≤0.03mmol/L
Backwash Time	0~99	03	

Brine &Slow Rinse Time	0~180	40	
Brine Refill Time	0~99	2min45s	
Fast Rinse Time	0~99	05	
Maximum Interval Regeneration Days	0~40	30	

6.Warranty Card

Dear client:

This warranty card is the guarantee proof of our under sink type residential softener for high hardness water. It is kept by client yourself. You could get the after-sales services from the supplier which is appointed by manufacturer. Please keep it properly. It couldn't be retrieved if lost. The situations below are not considered of free maintenance:

1.Guarantee period expired. (One year)
2.Damage resulting from using, maintenance, and keeping that are not in accordance with the instruction.
3.Damage resulting from repairing not by the appointed maintenance personnel.
4.Content in guarantee proof is unconfirmed with the label on the real good or be altered.
5.Damage resulting from force majeure.

Product Name	Under Sink Type Residential Softener for High Hardness		
Model		Code of Valve Body	
Purchase Company Name		Tel/Cell.	
Problem Description			
Solution Provided			
Date of Repairing		Date of Accompli-shment	Maintenance Man Signature

When product need warranty service, please consult with your supplier, and fill in with real and correct contents after the confirmation, and send this card together with the product to the appointed suppliers.

Tips:

THE LIVING HARM OF HIGH HARDNESS WATER

1.Long-term drinking of high hardness water will cause cardiovascular, neurological, urinary and other systemic diseases.
2.After boiling, the hard water tastes bad, and often causes incrustation. It also seriously affects the texture of food.
3.Bathing with hard water, there will be such tight and dry feeling on the hair and skin, and it hurts skin to accelerate ageing.
4.Washing clothes with hard water leads to an excessive use of detergent. Wasted detergent which could not be rinsed out from clothes will make the fabric become fragile and hard and its odor stays on the clothes.
5.There will be water marks or stains on the surface of tableware, water sink and even on the wall after using the hard water, which needs to clean regularly.
6.Due to the ever-increasing incrustation, the efficiency of water heaters decreases; this not only wastes energy, but also creates the hidden danger.