



CABINET WATER SOFTENER

RUNXIN VALVE PROGRAMMING PROCEDURE

Models:

Cabinet Softener: RL-R150

F69P3/F70BL - 74602

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Valve Buttons



Valve Configuration

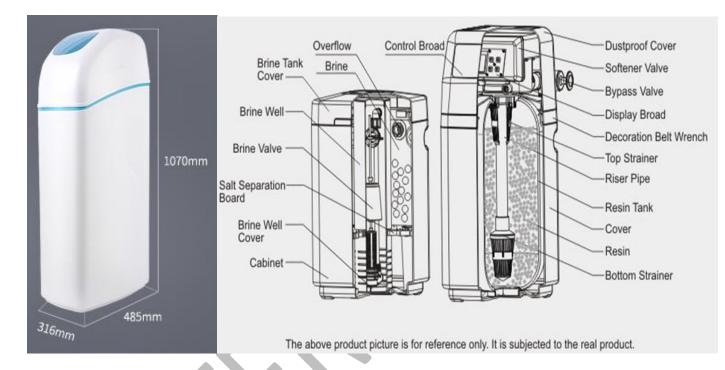


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Model	Time clock type: 73502P(F69P1)		
	Meter type: 73602P(F69P3)		
Installation type	Top-mounted		
Inlet/outlet	3/4" F		
Drain	1/2" M		
Brine line connector	3/8"M		
Base	2.5"-8NPSM		
Riser pipe	1.05"OD		
Resin Amount	28Lts		
Water treatment	2 m³/h		
capacity			
Tank diameter	10 x 35"		
Water pressure	0.15MPa \sim 0.6MPa		
Water temperature	5°C~38°C		
Water turbidity	Up-flow regeneration < 2FTU		
Power adapter	Input AC100 - 240V/50-60Hz		
	Output DC12V/1.5A		

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Button Operation



Menu / Confirm



Start Regeneration / Skip Regeneration Cycle / Return



Down

Up



Valve Locked – Press



Simultaneously for 5 secs to unlock

the screen

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Control Valve Symbols



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Water softener Installation

Softener Location

It is important to Install the softener in a suitable place:

- Preferably indoors. (If outdoors it is recommended to have the unit undercover or in a shed)
- As close as possible for water connections, drain line not to be too far from the unit
- On a level ground or platform
- Ambient temperatures to not exceed 49°C or below 1°C
- Near electrical supply for transformer with constant power out the GPO
- Water pressure not to exceed 600kPa with a minimum pressure required of 150kPa
- Easily accessible for maintenance of the unit, Add salt to the brine tank

Installation

A Non return Valve must be Installed on the outlet plumbing to avoid Brine tank overfilling during Regeneration Cycle

- Connect the inlet and outlet pipework as per the directional arrows on the back of the water softener valve ³/₄" Female BSP connections
- Use gaskets provided for the Inlet/Outlet and Drain Softener connections
- Run the drain line to an open drain line, an air gap is required to prevent back pressure or a siphon (As per Diagram)
- Secure all pipework from the water softener
- Fit a 12mm drain line for the overflow from the side of cabinet softener to a drain. Air gap required from hose into the drain





Initial Start Up



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• Connect power to the Controller and set up the programming of the valve

To Set Clock

- Unlock Valve Press Up & Down arrow together for 5 secs until you hear a beep.
- Press the Menu Button.
- The time will be displayed Press Menu button again.
- The hour time will flash.
- Change the Hour time to correct time by pressing the up or Down button & press Menu to save.
- The minutes will then flash.
- Change the minutes time with the up or down arrow and press menu to confirm changes.

Set Regeneration Time

- From the Set Clock setting press the down arrow.
- Press Menu The hour will then flash change the Hour time to desired time by pressing the up or Down button & press Menu to save.
- The minutes will then flash.
- Change the minutes time with the up or down arrow and press menu to confirm changes.

Regenerate on 0m³ Capacity or at Regeneration Set Time

- From the Set regeneration time setting press the down arrow.
- A-01 will be on the screen.
 - The setting is either A-01 or A-02
 - A-01 will Regenerate at the next set time as per previous instruction.
 - \circ A-02 will Regenerate immediately when capacity has reached 0m³.
- To change press Menu it will flash, press Up or Down and then menu to save changes.

Leave the next setting at F-00

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Set Water softener Capacity

- From the F-00 setting press the down arrow an hourglass and a m³ symbol will light up
- Press Menu Button
- The digits will then flash, change the number to the amount of capacity estimated for the ion exchange process in litres the softener will produce eg:

Feed hardness	Total Capacity	
(ppm)	(m³)	
50ppm	28m³	
70ppm	20m³	
90ppm	15.5m ³	
100ppm	14 m³	
120ppm	11.5m ³	
150ppm	9m³	
200ppm	7m ³	
250ppm	5.5m ³	

(Use the formula 28x50/Hardness= Total capacity m³).

To Change Regeneration Cycle Minutes

Backwash 2-##

- From the set capacity setting press the down arrow.
- The backwash symbol , spanner & M will be lit up, press menu, the
- time will flash, press the up and down arrows to change to 8mins
- Press menu to confirm

Brine Draw 3-##

- Once Backwash is set, Press down
- The Brine Draw symbol , spanner & M will be lit up, press menu, the time will flash, press the up and down arrows to change to 60mins
- Press menu to confirm





Brine Refill 4-##

- Once Brine Draw is set, Press down
- The Brine Refill symbol , spanner & M will be lit up, press menu, the time will flash, press the up and down arrows to change to 12mins
- Press menu to confirm

Fast Rinse 5-##

- Once Brine Refill is set, Press down
- The Fast Rinse symbol , spanner & M will be lit up, press menu, the time will flash, press the up and down arrows to change 5mins
- Press menu to confirm

How to change Regeneration Days Override

- From the fast rinse setting press the down arrow.
- H-## will be on the screen. (This is the current setting for the days override
- Press the Menu Button
- The Digits will then flash change the number to desired number of days by pressing the up or Down button & press Menu to save.





Once the softener is programmed you can now start passing water through the unit

- Fill the Cabinet brine tank with water approx. 25mm above the salt platform
- Add at least two bags of salt to the platform
- Put the softener into Regeneration screen will display -00- this is the valve moving into the backwash cycle, once this has stopped the backwash symbol will be displayed and the minutes will start counting down.
- Slowly open the inlet water connection a ¼ turn to allow a small flow of water into the softener to releasing air out of the cylinder
- Once all the air has been removed from the cylinder you can now open the inlet valve fully to clean the resin bed
- When the water is running clear press the regen button again to skip to the next cycle
- The valve will now be in Brine draw cycle, press the regen button again to skip to brine refill
- Allow the valve to top up the brine tank to the required level for a salt solution
- Once refill has completed leave the valve to complete the regeneration process and rinse the resin bed

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Troubleshooting

Problem	Possible Cause	Solution
Filter Fails to	a. Power to controller has	a. Check power
Backwash	been interrupted	connection is ok
	b. Backwash cycle times set	b. Reset the backwash
	incorrectly	cycle times
	c. Controller Damaged	c. Check or replace
		controller
Filter passing	a. Bypass valve is open	a. Close Bypass Valve
raw water	b. Damaged riser pipe	b. Check the riser pipe is
	c. Internal Valve Leak	not cracked and O-
		ring is ok
		c. Check or change
		valve body
Water	a. Filter requires a backwash	a. Backwash filter
pressure loss	b. Check no blockage in	b. Unblock pipework
	pipework	
Loss of media	a. Air in the system	a. Bleed air from the
material	b. Backwash flow control to	system. Check for
through drain	high	leaks
line	c. Top screen broken	b. Reduce Backwash
		flow to suitable size
		c. Check and replace
		top screen
Control valve	a. Wrong size transformer	a. Use correct
cycle	b. Foreign material stuck in	Transformer
continuously	drive gear	b. Remove Foreign
	c. Faulty valve	material from drive
		gear
		c. Replace valve
Water flowing	a. Power outage during	a. Turn on Power, cycle
through drain	backwash or fast rinse	through to service
line continually	b. Internal Valve leak	b. Check or replace
		valve body
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All indicators	a. Wiring between the PACIFIC WATER TECHNOLOGY
display on the	display board and control b. Replace control board
controller	board failure c. Check or replace
	b. Control board is faulty transformer
	c. Transformer damaged d. Replace transformer
	d. Incorrect voltage with correct size
No display on	a. Wiring between the a. Check a replace cable
controller	display board and control b. Replace control board
	board failure c. Replace display board
	b. Control board is faulty d. Check or replace
	c. Display board is faulty transformer
	d. Transformer damaged e. Check power supply
	e. Power outage
E1 Flash	a. Wiring between the a. Replace the wiring
	locating board and display between display
	board failure board and locating
	b. Locating board damaged board
	c. Mechanical driver fails b. Replace locating
	d. Faulty control board board
	fault d. Replace control board
	f. Motor damaged e. Replace wiring
	between control
	board and motor
	f. Replace motor
E2 Flash	a. Component on locating a. Replace locating
	board damage board
	b. Wiring of locating board b. Replace locating
	fails to work board wiring
	c. Control board is faulty c. Replace Control
	board
E3 or E4 Flash	a. Control board is faulty a. Replace Control
	Board

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