

High-Efficiency Automatic Backwash Disk Prefilter User Manual

QWRX 466.740
Rev. A.2008

1. Main Application

Used for filtering municipal water treatment. It belongs to coarse filtration. Can filter PM larger than 0.05mm, for protecting the back water equipment.

2. Product Characteristics

Disk filter, inverted installation.
High efficiency minimizes backwash.
Leakage protection function.
LCD display, clear and easy to understand.
There is a check valve in the outlet to avoid backflow.
Disk and outlet can be rotated 160°, can be installed horizontally or vertically.
Humanization design, LED lamp.
Connector to leakage sensor, can close the valve once leakage occurs.

3. Technical Parameters

Model	Nominal Size	Rated Water Flow Rate	Filtration Precision	Remark
RL-Q02	DN25	2.5m³/h	50µm	Appearance B

Operating Conditions:
Working Pressure: 0.1-0.6MPa Working Water Temperature: 5-30°C
Environment Temperature: 4-40°C Relative Humidity: ≤95% (25°C)
Power Adapter: Input AC100-240V/50-60Hz, output DC12V.

4. Check the Spare Parts

When unpacking the product, please check below spare parts.

No.	Description & Specification	Quantity	Remark
1	Prefilter	1	
2	Fixed Seat	1	
3	Expand Screw	3	
4	Seal Ring	2	
5	Soft Pipeline	1	
6	Clamp	2	
7	Connector	1	
8	Transformer	1	
9	Leakage Sensor (optional)	1	

5. Product Appearance and Installation Dimensions

Inlet/Outlet: GIM Drain: φ20

6. Installation Notes

- Installation conditions should conform to the requirements of the product work environment.
- It should be installed behind water meter, but in front of other equipment.
- It should stay away from hydrops, no exposure to rain or sunlight.
- If pipeline pressure changes suddenly, please install regulator valve.
- The installation position of drain should be lower than product's position. (Figure at right).
- The distance between installation location and power socket should be shorter than power line.
- Please avoid subsurface pipe when drilling during the installation of screw.
- If you have any questions, please feel free to contact our after-sales service or professionals.

7. Installation Steps

7.1 Display

7.2 Description of Each Interface

7.3. Parameter Setting

The prefilter parameter settings of this model are divided into:
1) Parameter setting. 2) Protection parameter settings. Among them, the water leakage protection parameter setting can be set according to the actual situation of the user, and the function can be turned off if not necessary.

3.1 Set Basic Parameter

a. Set Time of Day
Press the button under the unlocked figure A1 and select "Set Time of Day" as figure A2. Then press to enter into time of day setting interface as figure A3. When hour value flashes in figure A3, press and to set the hour value. Press again, and the minute value flashes. Press and to set the minute value. Press in figure A4 to save the data and back to service status.

b. Set Rinsing Time
Press the button under the unlocked figure B1 and then press to select "Set Rinsing Time" as figure B2. Then press to enter into rise time setting interface as figure B3. When hour value flashes in figure B3, press and to set the hour value. Press again, and the minute value flashes. Press and to set the minute value. Press in figure B4 to save the data and back to service status.

c. Set Residual Water
Setting residual water means that when the treated water reaches a certain amount, when the current time is the same as the rinsing time, the system enters the rinsing status. The setting of this parameter depends on the local water quality.
Press the button under the unlocked figure C1 and then press to select "Set Residual Water" as figure C2. Then press to enter into water treatment capacity setting interface as figure C3. When water treatment capacity value flashes in figure C3, press and to set the value. Press in figure C4 to save the data and back to service status.

3.2 Set Protect Parameter

The water leakage protection function can minimize the loss caused by water leakage, and the parameters need to be set according to the actual use.

d. Set Cont. Water Time
When the machine detects that the water outlet has been flowing and reaches the set value, the machine automatically closes the water inlet and displays it on the display board.

Leakage Protection of Continuous Water Supplying
Setting method: Press the button under the unlocked figure D1 and then press to select "Set Cont. Water Time" as figure D2. Then press to enter into continuous water time setting interface as figure D3 or D4. When continuous water time value flashes in figure D3 or D4, press and to set the value. Press in figure D5 to save the data and back to service status.

e. Peak F.R. for Close
When the machine detects that the instantaneous flow of the water outlet reaches the set value, the machine automatically closes the water inlet and displays it on the display board.

Leakage Protection of Instantaneous Flow

Setting method: Press the button under the unlocked figure E1 and then press to select "Peak F.R. for Close" as figure E2. Then press to enter into peak F.R. for close setting interface as figure E3 or E4. When peak F.R. for close value flashes in figure E3 or E4, press and to set the value. Press in figure E5 to save the data and back to service status.

f. Query Menu

In order to facilitate user settings, the machine provides two historical water consumption query parameters. After use water for a period of time, the user can query the maximum water consumption time and the maximum water flow rate, which is more convenient for the user to set the water leakage protection function.

Query the Maximum Water Consumption Time
Query the Maximum Water Flow Rate

8. Common Operating Functions

8.1 Lock and Unlock

Without any key operation in one minute, interface will be locked. Press and at the same time for 5 seconds, the interface will be unlocked.

8.2 Manual Close

When it is necessary to maintain the filter element or other water appliances, the water source can be cut off by the manual close function. In the unlocked status, press and hold for 5 seconds to automatically switch to the closed status. To return to service status, press and hold for 5 seconds.

8.3 Manual Backwash

If you need to manually enter the rinse state, you can press in the unlocked status to enter the backwash, and automatically rinse for 20 seconds and then enter the service status.

8.4 Lift Close Status

Because the water leakage protection function is set or the leakage sensor detects the water leakage, the machine will automatically switch to the close status to close the water inlet. If you need to lift the close status, press and hold for 5 seconds to automatically switch to the close status (The close status caused by the leakage sensor needs to solve the water leakage first).

8.5 LED Lamp

Touch any button, the LED lamp will light for 5 minutes. Without any operation in 5 minutes, the light will be off.

8.6 Installation of Leak Sensor

The pin of the leak sensor is installed in the leak protection port of the machine, and the sensor is placed on the ground where the leak can be sensed as soon as possible.

9. Trouble-Shooting

Problem	Cause	Correction
E1- Motor decreases	1. Motor is damaged.	1. Replace motor.
	2. Wire of motor with controller is loose.	2. Reconnect wire of motor.
	3. Locating board is damaged.	3. Replace locating board.
	4. Wire of locating board with controller is loose.	4. Reconnect wire of locating board.
E2- Current flow rate decreases	1. Locating board is damaged.	1. Replace locating board.
	2. Main board is damaged.	2. Replace main board.
	3. Small gear is damaged.	3. Replace small gear.
E3- Outlet flow rate decreases	1. Wire of water meter disconnect or breakdown.	1. Reconnect wire of water meter.
	2. Wire of water meter is damaged.	2. Replace wire of water meter.
	3. Turbine gets stuck.	3. Clean turbine.
	4. Other causes.	4. Replace turbine.
E4- Ineffective backwash	1. Inlet water pressure is low.	1. Install booster pump or increase flow.
	2. Fixed seat of filter cartridge gets stuck.	2. Disassemble and clean the filter cartridge.
Interface prompts "close"	Continuous water supplying is too long.	Reset closing time for continuous water supplying according to water usage.
	Open many faucets at the same time or pipeline is burst.	Reset peak flow rate according to water usage. Or repair the pipeline.
	Water leakage is detected at the leak point.	Repair the leak point and replace the expansion cotton.

10. Warranty Card

Dear client:
This warranty card is the guarantee proof of High-Efficiency Automatic Backwash Disk Prefilter, which is kept by yourself. You could get the after sales services from the supplier which is appointed by manufacturer. Please keep it properly. It couldn't retrieved if lost. It couldn't be repaired free of charge under the below conditions:
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 unaccompanied with the label on the real good or be altered.
5. Damage resulting from force majeure.

Product Name: High-Efficiency Automatic Backwash Disk Prefilter		
Model	Code of Valve Body	
Purchase Company Name	Tel: C1	
Problem		
Solution		
Date of Repairing	Date of Accomplishment	Maintenance Man Signature

If the product needs to be returned for repair, please be sure to consult with your product supplier about maintenance matters, fill in the contents of the above form truthfully, accurately and completely after receiving a positive answer, and send it to your product supplier together with the product to be repaired for maintenance.