

A horizontal blue dimension line with arrows at both ends, spanning the width of the page.

117.00 mm

Pre-filter

Pressure control valve

Product Installation Manual

A vertical blue dimension line with arrows at both ends, spanning the height of the page.

183.00 mm

Please read the instruction manual carefully
before use, and keep it properly for reference

Contents

I .Product Features.....	1	VII.Failure Analysis.....	10
II .Product Structure Diagram.....	2	VIII.Packing List.....	11
III.Technical Parameters.....	7	IX.Quality Assurance.....	11
IV.Installation Steps.....	7	X.Health License Approval Parameters.....	11
V .UseandMaintenanceMethods.....	9	XI.Warranty Card.....	12
VI.Precautions.....	10		

Thank you for choosing our company's pre-filter series. This manual includes the content and details of installation, use, and maintenance. Please read and follow this user's installation and use instructions before installing and using this system.

* Please keep this instruction manual in a safe place.

Product Features

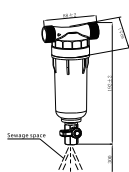
Function introduction

- This product uses municipal tap water as raw water, and the effluent quality meets the requirements of "Sanitary Safety and Functional Evaluation of Drinking Water Quality Processors – General Water Quality Processor" (2001).
- The central pre-filter is a device that filters the household water supply system, which is typically installed at the water inlet of the system. A central pre-filter is usually installed after the user's inlet water meter to protect the piping and equipment downstream of the system.
- The product uses a transparent high-strength protective cover that allows the user to check the working condition of the pre-filter at any time, and can clearly see if any foreign impurities are blocked by the pre-filter, and the maintenance and washing process can be seen at a glance. Unique maintenance, flushing and drainage structure can effectively remove impurities blocked by the pre-filter.
- The filter mesh is made of special 316 stainless steel mesh wire, which is entangled by machine and woven, which is easy to clean and durable.
- Special water pressure adjustment function can effectively solve the damage caused by high water pressure or water pressure instability in household water supply pipelines and water equipment under special circumstances.

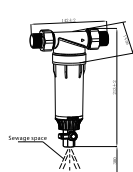
Introduction to major components

1. Filter copper valve body standard Hpb65-1 or lead-free copper, the service life is 15 years.
2. Filter transparent filter bottle, made of special compound material, with a service life of 15 years.

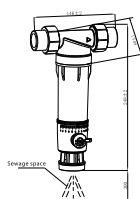
Product Structure Diagram



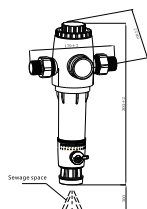
MQ-T1



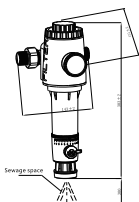
MQ-H1



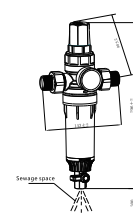
MQ-H3



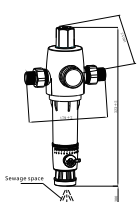
MQ-01-C1



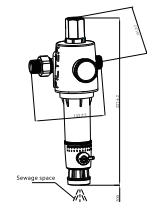
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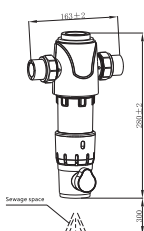
MQ-02-K1



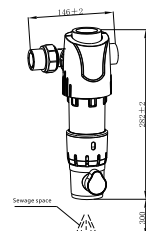
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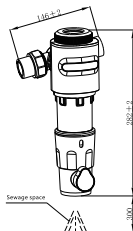
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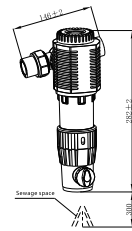
MQ-03-W1



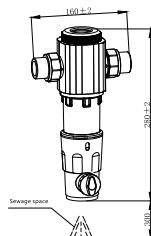
MQ-03-W2



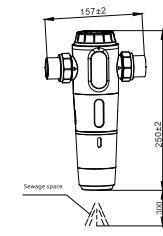
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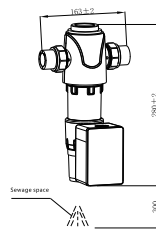
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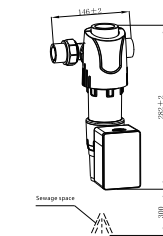
MQ-03-S1



MQ-02-L1

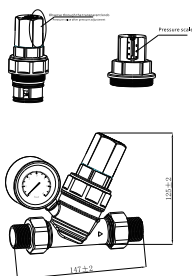


MQ-03-W1D



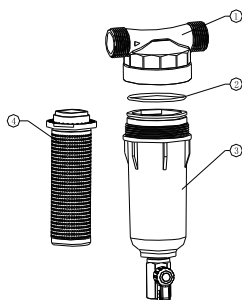
MQ-03-W2D

Product Structure Diagram



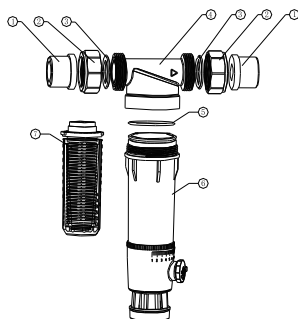
Function introduction of pressure regulating valve and pre-filter with pressure regulating function:

1. The pressure regulating module can be separated from the valve body as a whole, which is convenient for later maintenance and replacement.
2. Observing through the transparent knob, you can see the pressure scale pointed by the pointer. From 1-6 bar, the pressure value is the pressure after the pressure is adjusted.
3. The scale pointed by the pointer is the set water outlet pressure.
4. When the inlet water pressure is high, such as 10bar, set the pressure regulating valve scale to 3bar, the pressure after the pressure regulating valve is 3bar, turn the transparent knob of the pressure regulating valve clockwise, the pressure regulating scale will move down, the pressure after the valve Increase, otherwise, decrease.



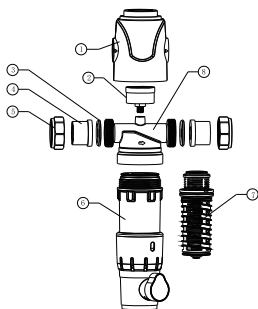
MQ-T1

Serial number	Numbering	Name
1	125001	Brass valve head
2	125002	Bottle mouth seal
3	125003	Short filter bottle assembly
4	125011	Standard filter element assembly



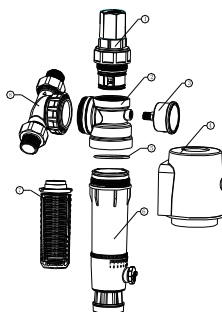
MQ-H3

Serial number	Numbering	Name
1	125012	PP-R adapter
2	125013	PP-R union cap
3	125014	PP-R adapter gasket
4	125015	Brass valve head
5	125002	Bottle mouth seal
6	125016	Plastic coated filter bottle assembly
7	125011	Scraping filter element assembly



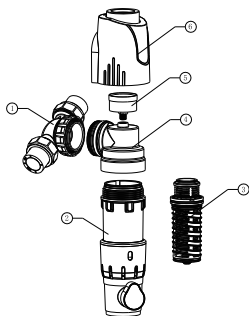
MQ-03-W1

Serial number	Numbering	Name
1	225030	Decorative shell
2	225019	Pressure gauge
3	225031	Gasket
4	225032	PP-R hot melt adapter
5	225033	Union nut
6	225004	Filter bottle assembly
7	225002	Filter element assembly
8	225034	Directional copper head



MQ-02-K3

Serial number	Numbering	Name
1	125017	Pressure regulating valve core assembly
2	125018	Brass valve head
3	125019	Pressure gauge
4	125020	Decorative shell
5	125002	Bottle mouth seal
6	125016	Plastic coated filter bottle assembly
7	125011	Scraping filter element assembly
8	125021	Universal components



MQ-03-W2

Serial number	Numbering	Name
1	225040	Universal components
2	225004	Filter bottle assembly
3	225002	Filter element assembly
4	225020	Universal copper head
5	225019	Pressure gauge
6	225041	Decorative shell

Introduction to Backwash

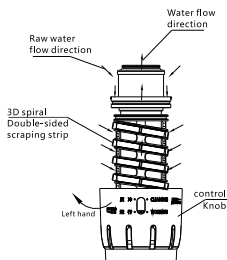


Figure 1: Filter status

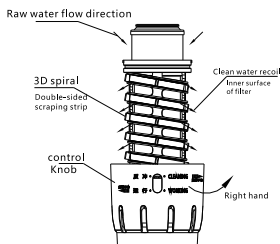


Figure 2: Recoil state

Figure 1: Filtering status: Manually turn the control knob to the left, and stop when there is a sense of non-reversal. At the same time, observe through the window, the red indicator band is pointing to the "running" scale, this status is the filtering state;

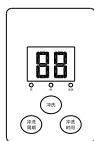
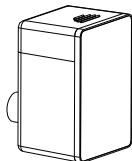
In the process of manually turning the control knob to the left, the 3D spiral double-sided scraper moves downward while cleaning the inner wall of the filter bottle and the outer wall of the filter screen.

Figure 2: Recoil status: Manually turn the control knob to the right, and stop when there is a sense of non-reversal. At the same time, observe through the window, the red indicator belt is pointing to the "recoil" scale, this state is the recoil state;

In the process of manually turning the control knob to the right, the 3D spiral double-sided scraper moves upward while cleaning the inner wall of the filter bottle and the outer wall of the filter screen.

Introduction to Zhikongbao

Zhikongbao



Introduction of Zhikongbao:

Zhikongbao is a device that regularly controls the opening of the sewage valve and can be connected to an external power supply or dry battery.

1. The screen is black when not operating, touch any key to wake up the screen.

2. Long press the "flush" button for more than 3 seconds, the buzzer will sound once at the end of the 3 seconds, the electric valve will automatically open, and the digital screen will start counting down (the countdown length is the same as the length set in item

4, and the factory setting is 60 seconds). The indicator light "flushing" is on and flashing. After the countdown reaches 00, the valve automatically closes. In the countdown process, touch any key, the electric valve will automatically close.

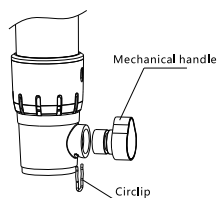
3. Long press the "Flush cycle" button for 3 seconds, at the end of the 3 seconds, the buzzer will sound once, the digital screen will start to flash and become a settable state, at the same time the indicator "day" is on and blinking, click again The weekly flashing stops by default and stays at the current setting value. If you accidentally touch any other key, the setting status will stop immediately and stay at the current setting value.

4. Long press the "rinsing time" button for 3 seconds, the buzzer will sound once at the end of the 3 seconds, the digital screen will start to flash and become a settable state, at the same time the indicator "seconds" is on and flashing, click on the "rinsing time" again Press the key, the buzzer emits a sound, and the numbers cycle from 01 to 99, only increasing without decreasing. If there is no operation at an interval of 3 seconds, the flashing stops by default and stays at the current setting value. If you accidentally touch any other key, the setting status will stop immediately and stay at the current setting value.

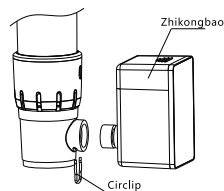
5. When the flushing cycle reaches the set value, the electric valve opens, and the flushing time begins to count down. At the same time, the indicator "flushing" lights up and flashes. After the countdown reaches 00 seconds, the valve automatically closes. The factory setting flushing cycle is 7 days and the flushing time is 60 seconds.

From MQ-03 and above series, manual sewage drainage can be upgraded to the mode with intelligent control treasure.

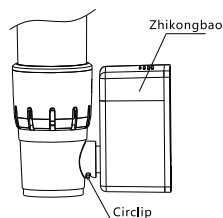
Smart control treasure and mechanical handle interchange



Step 1:
Unplug the circlip and take out the mechanical handle

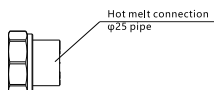
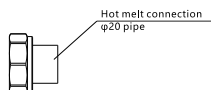
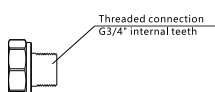
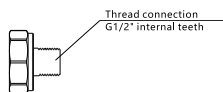
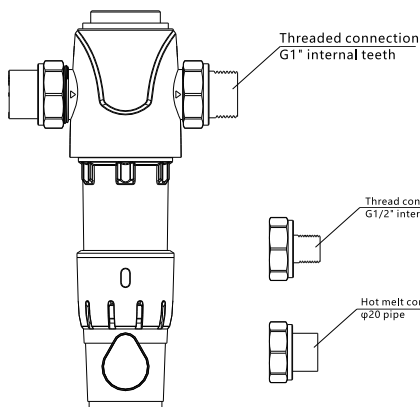


Step 2:
Install the Zhikongbao adapter into the host



Step 2:
Insert the circlip into the slot to complete the replacement

Connection mode interchange



Five connection methods can be interchanged

Technical Parameters

product number	T1、H1、H3、C1、C2etc.	K1、K2、K3etc.
Additional features	NO	Adjusting water pressure and making it stable
Filtration accuracy(μm)	40	40
Nominal diameter(DN)	25	25(20 optional)
Connector size	3/4"	3/4"
Working pressure	0.1MPa ~ 1.0MPa	0.1MPa ~ 1.0MPa
Applicable water quality	Municipal tapwater	Municipal tapwater
Applicable temperature	5℃~40℃	5℃~40℃

Installation Steps



Installation Precautions:

This product is recommended to be installed by a professional.

1. The installer checks whether the parts are complete before installation.
2. This product should not be installed outdoors, as far as possible from ultraviolet light. Heat sources, fuel oils, and various chemicals.

Need to prevent frost cracking, when the ambient temperature is lower than 5 °C, it should be dealt with. The filter takes protective measures.

3. Fully uniform winding is required when winding the raw tape. (pressure gauge port, joints, etc.)

4. When tightening the hex nut with a wrench, you need to ensure other parts. The pieces do not rotate.

5. After installation, carefully observe whether there is water leakage or water seepage.

6. When installing this device, observe the correct direction of the system water flow! Install the water flow direction in the pipe and the filter body. The indicated arrows are in the same direction.

In all the installation, maintenance and use diagrams in this manual, except In particular, the K2 regulator is used as an example. For reference, please refer to the actual product.

This product is used for home pre-filtering or waterway protection, usually installed Behind the main water inlet valve or behind the water meter (as shown in Figure 1 Show). The following installation instructions use the PPR pipe connection as an installation example. If the household water pipe is connected by a metal pipe, it is necessary to connect the pipe according to the actual situation.

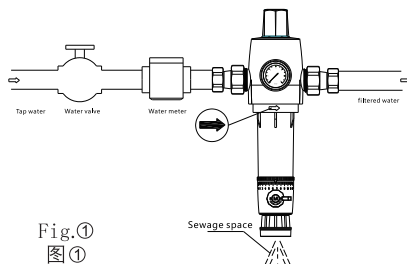
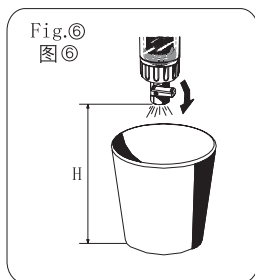
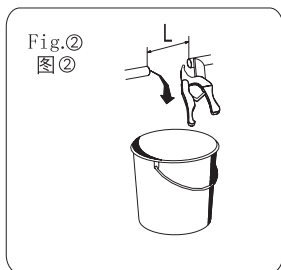


Fig.①
图①

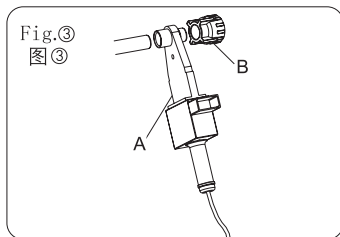
step one

According to the product size, first determine the installation position (reserved $H \geq 300\text{mm}$ height for sewage) as shown in Figure 6. Close the inlet valve, open the water outlet of the household faucet, and then use the PPR pipe scissors to cut the pipe with a length of about 200~250mm at the installation position for installing the product. As shown in Figure 2, pay attention to the remaining water in the tube.



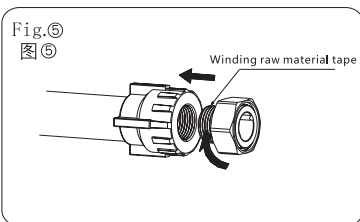
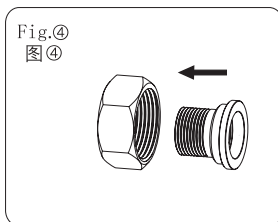
Step two

As shown in Figure 3, use the PPR tube hot melt machine A to weld one end of the PPR tube and the joint B (PPR hot melt joint with 3/4" internal thread), and weld the other end of the cut PPR tube in the same way. The welding should be carried out quickly to ensure the quality of the welding. After the welding, the cooling will not move for two minutes.



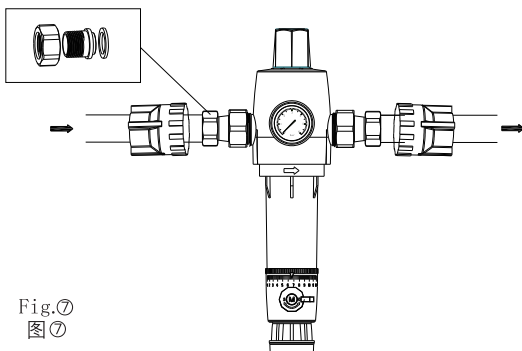
Step three

As shown in Figure 4, assemble the six-point threaded union and hex nut in the machine fitting. And fully wrap the raw material tape at the external thread of the six-point joint, and then screw the wound joint assembly and the hot-melt welded one end joint, as shown in Fig. 5. Use the same method to handle the other end (this step uses the product's own wrench to tighten the thread).



Step four

Tighten the two gaskets in the attachment and the threaded union assembly at both ends with a wrench. Note that the flow direction is the same as the direction of the arrow on the pre-filter product, as shown in Figure 7.



Step five

Slowly open the inlet valve, after the household faucet can effluent, Then close all the water outlets. Pay attention to the prefilter products. Whether there is water leakage or slow water seepage between the components Elephant. At the same time, the drain valve can be opened and closed several times to release water, and carefully Observed. If you find any water leakage or water seepage, you should check it out right away. Is it tightened?

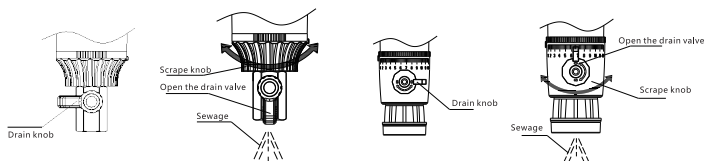
Useand Maintenance Methods

1. After the installation is completed, the user opens the inlet valve and closes the drain valve. The door and pre-filter will start working normally.

2. After the pre-filter is operated for a period of time, the customer can clearly see the impurities filtered by the filter through the transparent cylinder. At this time, if the accumulated impurities affect the water output and the water discharge pressure of the domestic water equipment, the pre-filter filter can be cleaned. The customer can open the purge drain valve for flushing.

Tip: It is recommended to rinse at least once every two months to increase the frequency of flushing according to the actual situation.

3. When the filter net accumulates some sticky impurities, or impurities are embedded in the filter net, can not be cleaned by normal cleaning method, and affect the water output and water pressure of the household water equipment, you can use the distribution wrench to remove the transparent simplified body. Remove the filter assembly and clean the impurities on the filter with a cleaning solution or a brush (Note: Do not clean with a strong acid or alkali cleaning solution). After cleaning, reinstall the cleaned filter assembly into the transparent assembly. Then tighten the simplified and copper parts with a wrench.



Precautions

In order to avoid possible injury or property damage to you or others, you must read and observe the following safety precautions before use!

1. Do not use other accessories that are not approved by the manufacturer. If the machine malfunctions, the warranty will be automatically terminated.
2. Please check the product for damage after unpacking and check whether the accessories are complete;
3. Children and incapacitated persons should use this product under the supervision of the guardian;
4. This product is mainly used for pre-filtering of domestic water and drinking water (municipal water supply);
5. This product should not be installed outside the air or placed under direct sunlight to prevent freezing or water temperature greater than 40 °C.
6. Avoid the following damages such as collision, freezing, overheating, chemical contact, hammering, etc.
7. In the normal cleaning and maintenance process, care should be taken to protect the integrity of the components.
8. Unmanned use for a long time:
 - a. Short-term deactivation can be left untreated.
 - b. If you are traveling for a long time or stop using it for a long time, please turn off the water source. When you start using it next time, it must be cleaned before it can be used normally.

Failure Analysis

	Symptom	Possible Causes	Solutions
Basic paragraph	Small water flow	Whether the water pressure is reduced. Whether the water inlet valve is fully open. Check whether the filter is clogged partly.	Check the water pressure. Fully open the inlet valve. Clean the filter.
	Leakage	Whether the position that leaks is damaged. Whether the threaded connections are not wound with a material belt. Whether the sealing ring on the leak is old or damaged.	Replace the components. Wind with a material belt. Replace the seal ring.
Regulator	A small amount of water or small pressure	Whether the water inlet valve is fully open. The expected value of the output pressure is not set. Check whether the filter is clogged partly. Fail to install according to proper flow direction.	Fully open the inlet valve. Re-set the outlet pressure. Clean the filter. Install the machine according to the flow direction.
	The water pressure can not be maintained at the set value, and continues to rise.	The filter is seriously clogged. The valve accessory, gasket or edge is damaged. The downstream devices of the product cause increased water pressure.	Clean the strainer. Replace the pressure control assembly. Check valve, safety valve and other devices.
	Water leaks outward from the spring cover.	The diaphragm within the valve core fails to work.	Replace the valve core.

Tip: Do not disassemble the machine if it fails. Contact the dealer to solve it by a professional technician.

Packing List

No.	Basic paragraph	Regulator	No.	Basic paragraph	Regulator
1	Pre-filterbody	Pre-filterbody	5	Uniongasket *2	Uniongasket*2
2	Corkagewrench	Corkagewrench	6	Sewageadapter	Sewageadapter
3	Union *2	Union *2	7	Manual	Pressuregauge
4	Unionnut *2	Unionnut *2	8		Manual

Quality Assurance

This pre-filter product is backed by a three-year warranty from the date of purchase.

Warranty

The above guarantees are valid under the following conditions:

1. The raw water quality status meets the conditions specified in the "Installation and Operating Instructions" .
2. The inlet pressure is less than or equal to 10 bar (about 10 kg/cm 2).
3. Inlet water temperature is 5-40°C.
4. Installation ambient temperature is 5-40°C.
5. The equipment is not affected by irresistible external forces such as fire, lightning strikes and earthquakes.
6. The equipment is not damaged, modified, neglected, frozen, accidents and other irresponsible behaviors in use.
7. The device has not been disassembled by the user during use and has not been repaired by a non-warranty unit.

Health License Approval Parameters

Product name:	pre-filter
Product number:	See product body stickers
Applicable water temperature:	5-40°C
Inlet pressure:	0.1-1.0MPa
Scope of use:	Taking municipal tap water as raw water
Water treatment process:	Tap water→stainless steel mesh filter unit→filtered water
Precautions:	<ol style="list-style-type: none"> 1. Rinse the filter assembly regularly. 2. Pay attention to antifreeze.

Warranty Card

Product name		Product number	
Username		Contact number	
User address			
Purchase date		Invoice number	
Purchase address		Production batch	
Date	Warranty record		Servicer

Dealer: _____

Address: _____

Telephone number: _____

Warranty description

1. Warranty period: three years from the date of invoice;
 2. During the warranty period, if the fault is caused by the quality of the product itself, please refer to the completed "Warranty card" and purchase invoice are repaired at the local office. Do not disassemble the machine by yourself, otherwise
The company does not provide warranty, therefore, the company does not assume any responsibility for quality problems or accidents.
 3. The following conditions are not covered by the free warranty:
 - *A. Consumers are damaged due to improper use, maintenance and storage;
 - B. Non-maintenance personnel of our company disassemble the product and cause damage;
 - C. There is no purchase certificate or the purchase certificate does not match the product model;
 - D: Damage caused by force majeure;
 - E. Out of the warranty period.
- Tips: 1. The user should take good care of this card. This is your proof of warranty and lifetime preferential services.
 2. The card is made by our company, self-made is invalid.
 3. If the user address and phone number change, please modify your registration information and phone or
 Let us know by fax.

Product certification

Production Date: _____

Inspectors: _____