

‘Spring’ MTP/K Installation Guide and Technical Information

Thank you for purchasing a FreshWater MTP/K high quality drinking water purification system. It comprises a unique 6 stage, multi-technology ceramic cartridge, contained within the high quality plastic housing.

It is important that anyone installing a FRESH WATER FILTER® system takes time to study this guide as it contains essential information needed to ensure easy installation and trouble-free use.

Follow the instructions and, after installation, your system will produce purified water for drinking and preparing food at the touch of the special diverter valve.

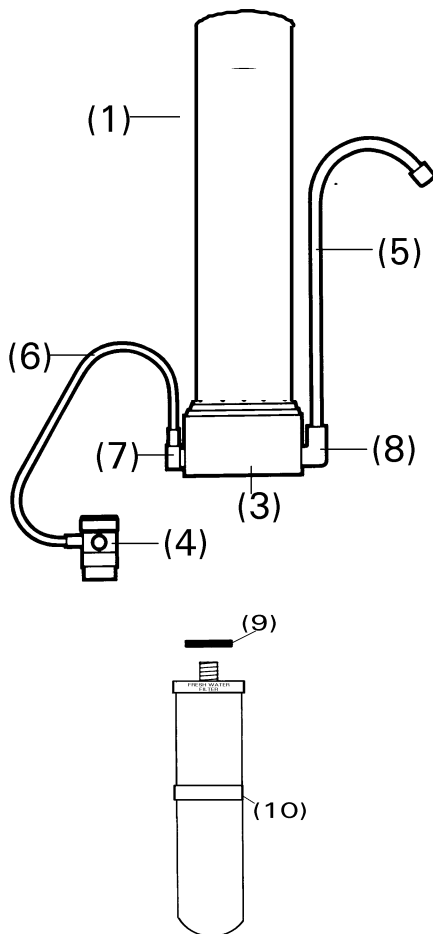
Keep the guide in a safe place. It will enable you to get the best performance from your system now and in the future.

Section One	Principal components
Section Two	Installation
Section Three	Operating instructions and maintenance
Section Four	General information

'Spring' MTP/K Installation Guide and Technical Information

Section 1

Principal Components



Item	Description "STREAM"	Code MTS/K1
1.	Housing sump	MTP01
2.	MS Housing seal	MTP02
3.	Housing head	MTP03
4.	Push/pull diverter valve	MTP04
5.	Spout w/ "O" rings	MTP05
6.	Tubing (3')	MTP06
7.	Elbow (barb)	MTP07
8.	Elbow (spout)	MTP08
9.	Candle sealing washer	GSP-09/B
10.	Cartridge "Pearl" candle	1000-25-SM
11.	Puritabs	PURI

Section 2

Installation

1. SELECTING A POSITION FOR THE FILTER

The filter unit is designed to be free standing on a sink unit or adjacent worktop.

2. CONNECTING THE PIPE-WORK & FITTINGS

a) Screw the diverter valve (4) to the cold tap or mixer tap if a male thread is visible. If not, an adapter will be required to convert the relevant threads.

b) This system is pre-assembled, If you need to make any amendment.

i) Connect the tube (6) to the housing head (3) ensuring that the tube (6) & elbow barb (7) is in place.

ii) Push the tube onto the fitting to ensure a tight seal.

iii) If the supplied tube (6) is regarded as too long, simply remove the tube (6) from the elbow barb (7) cut to the desired length, refit onto the elbow barb (7) and screw back into the inlet housing head (3).

iv) Screw the elbow spout (8) into the outlet of housing head (3), and only hand tighten.

v) Push the spout (5) into the spout elbow (8) the seal is formed by the two rubber "O" rings on the spout (5).

vi) Ensure that the arrow flow direction of the inlet and outlet is correct.

Caution: The wrong direction of water flow will damage the cartridge.

3. FITTING THE CARTRIDGE "PEARL" CARTRIDGE.

a) Unscrew the housing sump (1) from the housing head (3).

b) Remove the cartridge (10) from its protective sleeve. PLEASE ENSURE THAT YOUR HANDS ARE CLEAN while handling the cartridge (10).

c) Place the cartridge sealing washer (9) onto the threaded nipple of the cartridge (10) and screw into the head (3) until washer resistance is felt. DO NOT OVERTIGHTEN.

d) Check that the MP housing seal (2) is in place. Moisten the seal (2) and then place it inside the housing head (3) and screw the housing sump (1) into the head (3) HAND TIGHTEN ONLY.

4. CONDITIONING THE FILTER-The filter unit should now be ready for first filling with water.

a) Turn on the cold tap partially then pull the pin on the diverter valve (4) outwards to allow water to fill up the unit slowly for the first time.

b) It will take time for water to appear through the spout (5) at continuous flow of water emerges;- run the whole system for 5 to 10 minutes until the water tastes good.

‘Spring’ MTP/K Installation Guide and Technical Information

b) For a few seconds you may observe a black water condition, this is perfectly normal - ignore it - and continue to flush until the water runs clear.

NOTE. It is recommended to run the water to waste for a minimum of 5 minutes to 10 minutes. The filter is now ready for general use.

Check very carefully the entire installation for leaks.

Section 3

Operating Instructions & Maintenance

1. ROUTINE USE

- a) Turn on the cold water tap.
- b) Pull out the pin on the diverter valve (4) to let water divert to the filter system. Run the water for a few seconds before use. For the very optimum performance the water flow rate should be kept at around 1.5 to 2 litres per minute (about 20 seconds to fill a half litre bottle). The flow may be regulated by adjusting the flow on the cold tap.
- c) Under normal conditions, after 4000 litres (over 800 gallons) of water have passed through your Fresh Water Filter cartridge (10) or six months has passed, whichever is the sooner. It is advisable to fit a new cartridge unit to preserve optimum performance.

2. SERVICING THE FILTER Cleaning, removal and replacement of the cartridge (10).

- a) Leave the cold tap turned off, hold the filter unit upside-down over the sink unit.
- b) Unscrew the housing sump (1) from the housing head (3) which will be full of water.
- c) The cartridge (10) can now be unscrewed from the housing head (3) and cleaned in accordance with manufacturers instructions, or replaced as **Section Three, 3.**

d) After the cartridge (10) has been re-installed, recondition the filter as described in **Section Two, 3.** IT IS IMPORTANT to wash your hands thoroughly before and after servicing the filter.

NOTE. During use, unwanted particulate material will collect on the outside surface of the ceramic membrane and this will reduce the water flow rate. If the tap is fully turned on and the flow rate becomes unacceptably low, this normally indicates that the ceramic will need re-cleaning (see **Section Three, 2.**). Since the ceramic is re-cleanable it may be used over and over again. When, after cleaning, the flow is still not acceptable you should replace your cartridge. The frequency of cleaning will depend on how much water you use and the dirt and particles in the water. Please note that the latter can vary considerably from day to day during the year and may also depend on the condition of the pipes in your home.

Whenever a cartridge is cleaned or replaced or the filter housing opened for inspection, please check carefully to ensure that there are no leaks. From time to time, should the MP housing seal (2) become brittle, or break, or cause a leak it will need replacing.

Moisten MP housing seal (2) by wiping with white petroleum jelly (Vaseline) to help lubrication.

- a) **Warning:** Never use detergents or anything other than water for cleaning. Never twist or knock the ceramic as it is brittle and will crack if abused.
- b) **NOTE that the plastic portion of Pearl cartridge is not re-cleanable.** It is only important to keep the surface of the cartridge clean.
- c) Follow the procedure set out in **Section Two, 4.**

Note: White water. When a fresh ceramic cartridge is installed or after cleaning, the water may appear “white” for a short while.

This is due to micro-bubbles of air from the ceramic. They are quite harmless and you will see that it clears on standing in the glass with white background. (See also **Section Four, 6.**)

3. CARTRIDGE REPLACEMENT

- a) Unwrap the replacement cartridge and install in accordance with instructions given in **Section Two, 4.**
- b) It is quite safe to dispose of the used cartridges by wrapping in paper and placing in the waste bin.

Section 4

General information

1. USEFUL TIPS-With just the minimum of maintenance and attention your FRESH WATER FILTER high quality water purification system will give you many years of excellent service. The following tips may be useful:

- a) NEVER install the filter where the water can freeze, as this will break the ceramic and may damage the seals.
- b) Install the filter on the COLD water supply only, never use the hot water supply.
- c) Always use white petroleum jelly (Vaseline) on the housing seal (2) to help lubricate them and enable the housing to be opened more easily.
- d) Read this user guide carefully and keep it - in a safe place.
- e) For optimum performance clean and replace the filters regularly in accordance with the instructions, **Section Three, 2, NOTE & 3.**

2. FAULT FINDING

If you have any difficulty in installing the filter or maintaining the filter you may find the following useful:

3. NO WATER

- a) Check that the main stopcock is open and that the mains water is still on.

‘Spring’ MTP/K Installation Guide and Technical Information

b) Check that the cold water tap is turned on and pull the pin outward on the diverter valve (4).

c) Check that all the pipes are connected correctly, especially the water flow direction.

4. LOW WATER FLOW

a) Check that you have removed all the wrapping from a new filter cartridge.

b) Low water pressure. During periods of high water demand especially when most gardens hose are in use, the pressure may fall and so will the water flow from the filter. Running a bath, shower or appliance connected to same line on which your FRESH WATER FILTER system is connected may starve the unit of water.

c) During use, low water flow may be an indication that the filter is becoming blocked as it collects the unwanted debris and pollutants from the water. (See cleaning instructions, **Section Two, 3.**)

d) The filter system needs a minimum pressure of 1.4 Bar (approximately 20 psi) to work. As a general rule, the higher the pressure generally the greater the water flow will be. If the pressure is inadequate a pump may be needed, and for this you should contact the manufacturer or a plumber.

e) If the flow does not return to its former level immediately after cleaning the ceramic cartridge will need replacement.

5. HIGH WATER FLOW

If the water flow has excessive force, this will lead not only to splashing at the tap but also lower performance from the filter. Reduce the flow rate to the minimum acceptable by adjust the cold tap. For optimum performance we suggest a flow rate of 1.5 to 2 litres per minute or less.

6. WATER APPEARANCE

WHITE water. When a fresh ceramic cartridge is installed or after cleaning, the water may appear milky or white for a while. It is quite harmless and will soon clear. White water is due to micro-bubbles of air.

a) On standing, the water will become clear as the bubbles move upwards. Water in some areas of the country is more prone to this than others.

b) **BLACK** water. On setting up your system after cleaning or if it is disturbed for any reason, very fine black particles may occur in the water. Again this is quite normal and the particles are harmless carbon. Flushing the system for a few minutes by turning the tap on and off rapidly several times will help to clear this.

c) **COLOURED** water (often **RED**). Water in some areas may be high in dissolved iron and this can pass through the filter. When the water is left to stand, dissolved iron gives a red or brown colour as the iron oxidises (rusts). In very severe cases you should contact the manufacturer for specialist advice. Ordinary rust particles in the water will be removed by the system.

7. WATER TASTE

a) To the palates of most people, filtered and treated water tastes so much better than unfiltered water. There are also some people who cannot detect any change. Others find that the treated water tastes “different”, but they will soon become accustomed to the taste of the purer water.

b) A major factor affecting taste may be the natural composition in a particular area. There can be considerable local differences in the mineral content of the water for example. The ‘natural’ taste of an area’s water is often masked by the presence of chlorine used in the treatment process. If the chlorine taste consistently reappears, the cartridge should be replaced.

c) If after prolonged standing or during infrequent use any strong objectionable taste occurs, flush the system by running water for 5 minutes and if the taste persists carry out the sanitising process (see **Section Four, 9**).

8. WATER LEAKS

a) Your system has been individually pressure tested before leaving the factory. In the unlikely event of a fault, small leaks sometimes do occur as a result of incorrect assembly or abuse. The following tips may be helpful:

b) Depending on the positioning of the filter and the temperature of the incoming water and air, condensation on the outside of the filter housing may occur, resulting in a frosted appearance of fine water droplets on the plastic surface. This does not of course mean that there is a leak in the system. The remedy is to either insulate the area around the filter, or reposition it.

c) Always ensure that the MP housing seal and the areas in which it is located are clean. Any small piece of debris on the seal of the surrounding area could cause a small leak. Apply a smear of petroleum jelly to the seal.

d) Always ensure that the filter housing is screwed fully onto the housing head (3).

e) In the event of a leak carefully examine its source. Water from a leak may run along the pipe work - it may drip, or collect, some distance from the actual position of the leak.

f) When the leak is found, if it is around the housing sump and housing head, first clean the seal and the surrounding area and reassemble with a smear of petroleum jelly. If this does not solve the problem, fit a replacement seal.

g) If there is a leak from the spout, check that the spout is pushed down firmly. Ensure the “O” rings on the spout are still in position. Apply a smear of petroleum jelly if the seal is dry or remove any debris that is on the “O” rings, by running under cold water.

h) The above should be carried out with the water isolated, i.e. do not pull the pin out on the diverter valve.

‘Spring’ MTP/K Installation Guide and Technical Information

9. SANITISING THE SYSTEM

- a) This is optional and only use in the event of water supplies is uncertain. (For example, burst water pipe work coming into your water supply, etc.)
- b) Place 2 ‘Puritabs’ disinfecting tablets in each the housing with the cartridge.
- c) Fill the system with water by opening the cold water tap and pull the pin outward from the diverter valve for 10 seconds ignore the colour of the water
- d) Turn the cold tap off, leave the unit to stand for 3 minutes.
- e) Run the system for 5 - 10 minutes until the water tastes good,
- f) Note that during the disinfection process chlorine will be generated and this will taint the water. Flush the system adequately to remove this.

10. GOING ON HOLIDAY

If you go away for a holiday or are away for a few days, it is recommended practise to turn off the household mains water, whether or not you have a FRESH WATER FILTER system. When you return, run the water through the system for a few minutes so that the water you drink is freshly treated.

Our lifetime service to you

1. Lifetime Guarantee

Provided you continue to buy your filter element, every 6 months from the Fresh Water Filter Co Ltd, all parts except the elements will continue to be covered by our guarantee.

2. Free filter element

Recommend a friend: if they have one of our filter systems, we will give you one replacement cartridge free of charge.

3. 10% Discount

Purchase another one of our systems and we will give you a 10% discount off the usual price of the unit.