



## Undersink Water Filtration Systems For Use with Own Designated Faucet Tap



### **WARNING:**

For correct operation of this appliance it is essential to observe the manufacturer's instructions.

**All Systems must be installed by a qualified plumber.**

**ALL HPF Filtration Systems carry WaterMark certification.**

HPF Undersink systems are NOT to be used outdoors and are not UV resistant. Install only out of direct sunlight.

These systems must be positioned and mounted in an upright vertical position.

When choosing position for your Undersink filtration system allow room for plumbing and any maintenance and service requirements such as filter change.

This Undersink filter system must be fitted with a dual check valve (Non-Return Valve)

HPF Undersink systems ALL come with Dual check valves incorporated within the 480kpa pressure limiting valve.

HPF full flow Undersink filtration systems come with ½" Female NPT Incoming and Outgoing Ports.

System comes complete with everything required for installation and connection to existing cold water line and flex hoses on mixer taps.

It is the installer's responsibility to ensure that system is free of defects and in new condition before installation. Any faults reported after installation will be deemed the installers responsibility and makes the installer liable for any further maintenance and/ or repairs.

General flow direction for HPF Undersink systems will be from left to right.

**Under no circumstances** should any type of thread sealant be used on water filtration housings. Thread tape ONLY is permitted. If thread sealants are used, all warranty is void.

Filter cartridges are to be installed in order of: Pleated before Spun, Spun before Carbon, and Highest Micron before Lowest Micron. (Example: 5uM Pleated Cartridge in first housing on incoming side followed by 5uM Carbon Block in final housing on outgoing side)

On fittings where thread tape is required, we recommend 8 rounds of thread tape (Plumbers Tape) be applied. Under no circumstance should you use a sealant or resin to seal the thread. This has been known to expand within the head cap and cause failure resulting in flooding. All warranty and guarantees will be void.

**Kit Contents:**

- Single/ Twin/ Triple filter body on bracket
- 1 x Fitting Kit for installation
- 1 x Opening Handle for Housings
- 1 x Filter Cartridges designated to each system
- 1 x Roll thread tape
- 1x Pressure Limiting Valve 480kPA
- 1x Designated Faucet Tap

This filter system is designed to run through a separate designated line from the cold-water inlet to its own designated faucet tap.

**Installation:**

1. Isolate the incoming water supply
2. Double check that the kit content is ALL accounted for and that nothing is missing.
3. Locate the flex line from the cold-water supply to the mixer tap, undo flex line which should expose a 1/2" male thread coming from the wall or incoming water supply and 1/2" female thread from the flex line.
4. Attach the 1/2" female side of the 1/2" female x 1/2" male x 1/4" tube quick connect 3-way entry tee to the male 1/2" thread on the incoming water supply.
5. Attach the female 1/2" flex line to the 1/2" male side of the 3-way entry tee. Check the flex line has an internal seal and that the couplings provided seat correctly onto the seal within flex line.  
If the flex line does not have an internal seal or our couplings don't seat correctly, thread tape may be required.
6. Measure the length of plastic tubing required to reach from the 3-way entry tee incoming line to the inlet on the filter system. HPF Undersink filtration system will generally run from left to right. The elbow coupling on the inlet and outlet may be rotated to accommodate the direction of the tubing.
7. Using a very sharp Stanley knife, or tube cutters, cut the tubing to the required length. It's very important to make the cut straight and clean. Push the tubing into both couplings of the quick fit fittings in the water supply and the inlet on the filter system.
8. Once in position cut the incoming line that you just installed so that you can then install the dual check valve/ pressure limiting valve on the incoming water line.
9. Repeat step 6 and 7 for the tubing from the outlet of the filter system to the faucet tap.

An anti-water hammer device is recommended to be installed on the house plumbing to avoid damage to components.

Once installation is complete it is the installers responsibility to check for any leaks that may occur and it is the installers responsibility to ensure any such faults are corrected and that the consumer be informed of all works carried out and that the consumer receives all works carried out and completed as per agreed by the two parties. HPF are under no obligation to ensure the system is installed correctly and will not be charged for any call out fees or maintenance fees. HPF is a supplier of goods ONLY.

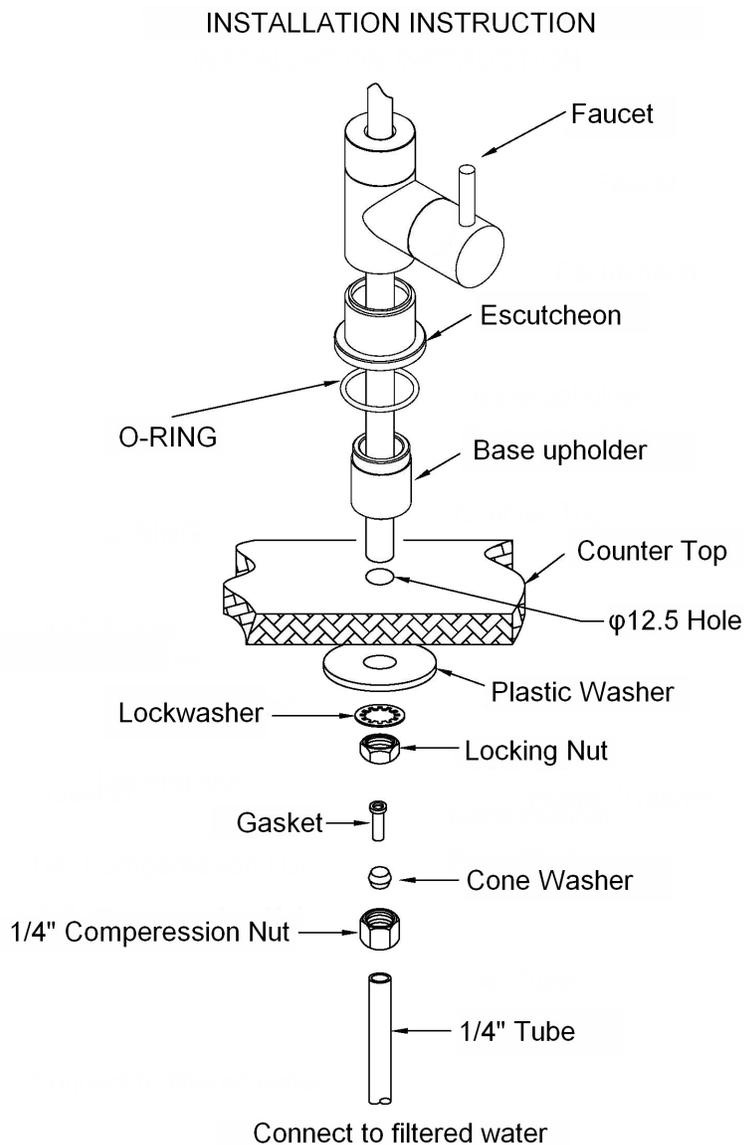
## Fitting the Faucet to the sink

### Stainless Steel Sinks & Porcelain Sinks:

1. Drilling through a stainless-steel sink can be achieved by marking a center punch and drilling a 5/32 or 4mm guide hole using a sharp drill piece for stainless sinks.
2. Use a 7/16 or 11mm sharp drill piece to enlarge the hole.
3. Remember speed kills. Only use a slow speed when drilling through stainless steel and porcelain.
4. Porcelain sinks will need the use of a carbide tip drill piece and no pilot hole is needed to drill through these.

**MOUNTING THE FAUCET:** refer to diagram below:

**Note:** HPF have provided a quick connect faucet fitting which can be used in place of the cone washer and compression nut.





## Working with Quick Connect Fittings

Quick connect fittings are very quick and extremely easy to use once you know how. To install simply push the water line firmly into the quick connect fitting. To remove water line from quick connect fitting simply depress the outer collar on the fitting and pull the water line out. If you do not depress the collar you WILL NOT remove the water line.



Note: Parts and components will vary.  
This picture is for display purposes only

## Mounting the Filtration System

1. Mark screw locations at the desired positions. Use the two holes on the back of purification assembly mounting bracket for marker guides.
2. Screw wood screws (NOT supplied with unit) into marked positions. Leave screw heads out a little.
3. Mount purification system onto screws.

## Start Up Procedure:

1. With everything connected, turn on the water check for leaks.
2. Let the water run for at least 3-5 minutes. This flushes the carbon filters on first time use.
3. Close the sink tap/ faucet.
4. Check the system for leaks.

The system is now ready for use.

## Caution for Your Safety

- Change filters regularly every 6 to 12 months.
- Use only cartridges deemed suitable for this appliance.
- Flush system for 3-5 minutes after a period of non-use that exceeds 30 days
- Check your house for signs of water hammer – if needed install a hammer arrestor to prevent damage. We recommend the use of the HydroGuard Tank, Shock Absorber, 0.16Ltr / 15-0.5" NPT (c/w BSPT) connection, 1 Bar / 15psi, Stainless Steel, HTSA-0.16-10, Hammer Arrestor





**HIGH  
PERFORMANCE  
FILTRATION**

## **FILTER CHANGING PROCEDURES**

Filters should be changed every 12 months or 8,000 Ltrs.

Not changing your filters regularly can cause bacteria to grow within the carbon itself and the housings and contaminate the water.

### **Filter Changes**

1. Turn water supply off.
2. Open faucet to help de-pressurize system.
3. Unscrew filter housings by turning clockwise.
4. Remove old filters and discard. Then follow sanitizing procedure.
5. Whilst only touching the plastic ends of the carbon blocks, insert new filters into appropriate housings.
6. Replace O-rings as necessary. Be sure O-ring is clean, lubricated and seated properly when tightening. Never use Vaseline or any other petroleum-based lubricant. It may breakdown the O-ring or the seat of the filter housing and cause a failure (leak).
7. Flush the system for 3-5 minutes to get rid of any carbon fines. Then follow normal system start up procedures.

### **RECOMMENDED SANITISING PROCEDURE**

The best time to sanitize is when changing the filters. It is recommended to sanitize the whole system a minimum of once a year.

1. Shut off water inlet tap valve. Remove old filters. We recommend you use HydroSil-Ultra (available from your HPF supplier) to sanitise your system. Carefully put 5 drops full of HydraSil into each of the empty filter housings. Reassemble the filter housings without filters.
2. Turn water supply back on to about 30% of maximum flow rate until water reaches the faucet.
3. Shut off water supply. Let entire system sit for about 10-15 minutes to thoroughly sanitize.
4. Shut off the incoming tap valve.
5. Open faucet to release pressure. Turn on inlet water at ball valve. Flush the system for 3-5 minutes.
6. Insert cartridges and follow start up procedures.

### **PERFORMANCE SHEET**

Production rate 10 Lpm for best results.

Contaminant

Organic

Chlorine Over 95%

Pesticides Over 95%

Endrin Over 95%

Aldrin Over 95%

VOCs Over 95%

Fluorathene Over 95%

Trihalomethanes Over 95%

Dichloromethane Over 95%

Trichloroethylene Over 95%

Tannic Acids Over 95%

Herbicides Over 95%

DDT Over 95%

Lindane Over 95%

Benzene Over 95%

Adrazin Over 95%

Phenol Over 95%

Toxaphene Over 95%

Chloroform Over 95%

Perchloroethylene Over 95%

Cryptosporidium Over 99%

**CAUTION:** Do not use with water that is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

Please see Terms and Conditions and Warranty for more information