



## Twin Carbon Undersink Water Filter Systems

### For Use with Mixer Tap

#### **WARNING:**

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

This system is not UV resistant. Install only out of direct sunlight.

This system must be mounted in a vertical position and must be positioned to allow access for service and filter cartridge changing. At the same time, the assembly should be relatively near the faucet to maximise flow rate.

On fittings where thread tape is required, we recommend 8 full rounds of thread tape per thread.

#### **Kit Contents:**

Twin filter body

2 x 3/8 x 1/2 Elbows

1 x 3/8 x 1/2 Female adaptor

1 x 3/8 x 1/2 male adaptor

1 x thread tape

2 x meters of 3/8 tubing

1 x 1 micron "H2 Blue" carbon cartridge

1 x 0.5 micron "Pentec" carbon cartridge

#### **Optional:**

1 x PLV (when GT1-3MKPLV is purchased). For town water applications only

This filter system is designed to run through the cold line of your existing mixer tap on the sink. Installing this way increases the flow of filtered water with the use of twin carbon filters.

#### **Installation:**

1. Turn off water supply
2. Check kit content
3. Apply thread tape and install elbow to each side of the filter system. Use 8 wraps of thread tape provided then check if tight.

4. Locate and undo the flex line from the cold supply to the mixer tap, undo flex line which should expose a 1/2" male and female thread.
5. Screw in both 1/2" male and female couplings provided to make provisions for the 3/8 plastic filter tubing.  
Check the flex line has an internal seal and that the couplings provided seat correctly onto the coupling on the flex line.  
If the flex line doesn't have an internal seal or our coupling don't seat correctly, thread tape may be required.
6. Estimate the length of plastic tubing required to reach from the flex line to the inlet on the filter system. 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 cut the tubing to the required length. It's very important to make the cut straight and clean. Push the tubing into both couplings from the water supply and the inlet on the filter system.
8. Repeat step 7 for the tubing from the filter system back into the flex line to the mixer tap.
9. When a pressure limiting valve is purchased with the kit (GT1-3MKPLV), complete your installation as above then cut the line cleanly at any location between the water inlet and the filter system, insert the PLV in the direction of the flow which is indicated on the body of the PLV.  
Pressure limiting valves are only required for Municipal (town or council) water supplies.

In summary you are interrupting the flexible lines from the cold water supply by using the plastic tubing and couplings to direct the water through the filter system then back up to the mixer tap. The result of this is that all cold water arriving at the mixer tap is filters through twin carbon filters for maximum chemical extraction at full flow. Running through two carbon filters may result in a drop in pressure and flow to your cold water, however this is not considered noticeable provided you have adequate pressure available. Acceptable pressure should be from 45psi - 80 psi . Pressures under this may result in reduced flow rate.

### **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 Purification System**

1. Mark screw locations at the desired positions. Use the two holes on 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 top faucet. 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

## **FILTER CHANGING PROCEDURES**

Both filters should be changed every 12 months or 8 000 Litres. Not changing your filters regularly can cause bacteria to grow 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, 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 sealant. 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 HyraSil Sanitizer (available from your filter dealer) to disinfect your system. Carefully put the recommended dosage of sanitizer 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%

Herbicides Over 95%

Pesticides Over 95%

DDT Over 95%

Endrin Over 95%

Lindane Over 95%

Aldrin Over 95%

Benzene Over 95%

VOCs Over 95%

Adrazin Over 95%

Fluorathene Over 95%

Phenol Over 95%

Trihalomethanes Over 95%

Toxaphene Over 95%

Dichloromethane Over 95%

Chloroform Over 95%

Trichlorethylene Over 95%

Perchlorethylene Over 95%

Tannic Acids Over 95%

Cryptosporidium Over 99%

950PL Only

Giardia Cysts 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.**



**Filter Systems Australia**

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