



# Whole House Filtration Installation Instruction sheet

Thank you for purchasing our filtration system for point of entry / whole house filtration. It is important that you read and follow all of the below instructions carefully, and that installation is only attempted by a qualified plumber.

## Important notes

- Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system (this system will not disinfect water).
- Do not install where water hammering may occur without installation a water hammer arrestor.
- Maximum operating pressure of system is 90 psi. If you suspect your water pressure will at any time exceed 80 psi you must install a pressure regulator before the unit to be set at <70 psi.
- Protect filter system from freezing temperatures and direct sunlight / UV rays. Over pressure or exposure to the above may cause filter housing to fail resulting in possible injury and property damage.
- For use with cold water only, maximum temperature 38°C.
- It is recommended to use flexi hoses and not new copper pipework before the system \* **If fitting the system at the same time as new copper pipe work the scale filter cartridge must be bypassed for the first 3 weeks as copper levels in the water may exceed the maximum parameters (1.3 mg/l ) until it has fully oxidised. – You can bypass the system or for 2 pod whole house systems you can just remove the scale filter cartridge from inside the 2<sup>nd</sup> pod and reattach the pod empty for a few weeks before reinserting the filter.**

## Installation

1. Position the filter system in-line with the cold-water pipe before any faucets and appliances, ideally locate just after the stop tap on the incoming water mains. The filter system must be installed upright.
2. The housings on the filter system have 1" BSP female threaded ports at either end, you can use a 1" BSP thread to X size thread connector (where X is matching your existing plumbing), we recommend using a 1" BSP x 3/4" BSP thread as standard if unsure. Apply PTFE Teflon tape around the 1" thread prior to connecting into the filter unit, an ample amount should be applied to ensure a water tight seal.
3. The plumber will connect the unit to your pipework, installation configuration will vary depending upon your existing pipework:
  - If using flexible hoses (not supplied) to connect the unit ensure they are a wide/full bore internal diameter to prevent flow restriction.
  - If connecting directly to pipework we recommend that shut off valves (not included) are installed before/after the unit to make future filter changes easier.
  - It is recommended to install with the option of bypassing the filter system, so if leaks occur you may isolate the system and continue to use the water. Plumbing installation and bypass kits are available sold separately (15mm size code: DDL15MMFBBK, 22mm size code: DDL22MMFBBK) – available at [www.dentaldecontamination.co.uk.co.uk](http://www.dentaldecontamination.co.uk.co.uk)
4. Turn the blue bowls to ensure they are fully tightened to the filter heads, we recommend only to tighten by hand or use spanner tool gently as overtightening can cause leaks.
5. Once installed open the nearest cold water tap and turn on the water to the filter system. Leave the water to run for 5 minutes from the cold water tap to flush through the new filter. There may be some black/white discolouration to the water whilst flushing – this is normal and is just harmless fine carbon particles washed off the filter media when wet for the first time.
6. Once flushed you can turn off the cold-water tap. Check the filter system for any immediate leaks, and check back after several hours to ensure there are no slow leaks.

## Troubleshooting

### Leaking from the unit

- If leaking from connections at either side of the unit or pipework please disconnect and apply more PTFE/Teflon tape to the threads and reconnect.

- If leaking from the joint between the blue bowl and black filter head the blue bowl may be either over or under tightened, or the rubber O ring may not be on straight. Turn off the water and press the red button on the top of the housing for a few seconds to release the pressure. Undo the blue bowl with the filter spanner tool and check the rubber O ring is intact and seated correctly in the groove on top of the blue bowl. Reconnect the blue bowl to secure back into place, it is recommended to tighten the bowl by hand only to avoid over tightening as this may also cause leaks.
- If leaking from joint between the housings (if you have connected multiple housings together for example) leak will be due to insufficient PTFE/Teflon tape on the threaded connector. Please disconnect unit and apply more PTFE/Teflon tape to the threads.

#### **Particles in water**

- After the initial flushing of 5 minutes if the water is cloudy please pour some water into a glass and check what happens.
- If the water is white/milky colour and this clears after a few minutes of sitting in the glass then it is just aeration of the water (thousands of tiny air bubbles caused by agitation of the water passing through the filter media) which is normal and harmless.
- If the water remains cloudy or there is a small residue please run the filter for a further 5 minutes as it may require more flushing.
- If there are visibly little particles or granules in the water which look like filter media (tiny balls or grains of filter media) shut off the water and open the blue bowls on the filter system – check inside of the blue bowls and remove the filter cartridges, if you can see any media inside of the blue bowls this may indicate that the filter cartridge has been damaged in transit internally and some filter media is leaking – please remove both of the filters and call customer services for further advice on (+44) 01253 736355.

#### **Filter change instructions**

- Shut off the water supply to the filter system, and press the red button (pressure release valve) on the top of the filter pod for a few seconds to release pressure.
- Using the spanner tool unscrew the blue bowl from the filter housing head (direction is leftwards as you look at the unit from the front).
- Pull the old filter cartridge from out of the blue bowl, and replace with the new filter cartridge.
- Check the rubber O ring is intact and seated correctly in the groove on top of the blue bowl.
- It is recommended to apply a small amount of food grade silicon grease (or Vaseline) to the black rubber O rings on top of the blue bowl prior to reconnecting the blue bowl, this ensures it does not seize up and is easy to remove on the next filter change.
- Reconnect the blue bowl to secure back into place, it is recommended to tighten the bowl by hand only to avoid over tightening as this may also cause leaks.
- Turn water supply back on and turn on the nearest cold-water tap for 5 minutes to flush the filter.

#### **Disclaimer**

The information contained within this document should not be considered as professional repair or installation advice. Dental Decontamination Ltd is not responsible or liable for any plumbing done on your behalf, any suggestions or procedures are listed purely for information purposes only. If in doubt consult a professional plumber.