

What Are the Benefits of This Upgrade?



At the heart of any RO/DI system is the reverse osmosis membrane which is responsible for removing >99% of the impurities from your source tap water. It is also the component which controls the rate at which the system is able to produce water often expressed as US Gallons Per Day (GPD).

Replacing the RO membrane with a higher capacity membrane is often the easiest way to increase your water production. However, it is not as simple as just swapping out the RO membrane itself. A replacement wastewater flow restrictor is also required to ensure the correct balance and ratio of filtered water to wastewater produced.

What Do I Need?

This kit includes everything that you will need to successfully upgrade your system with a larger flow restrictor and increased capacity membrane(s).

Please ensure that you have received all of the following parts:

- 1x Flow Restrictor
- 1x OR 2x RO Membrane(s)*

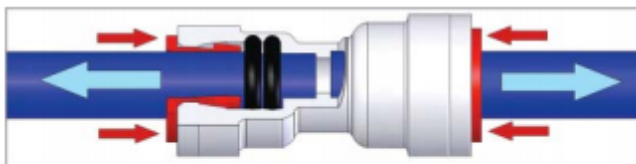
*Single membrane upgrade kits will contain only one membrane whereas dual membrane upgrade kits will contain two.

Useful Tools

- RO Tube Cutters or a Utility Knife

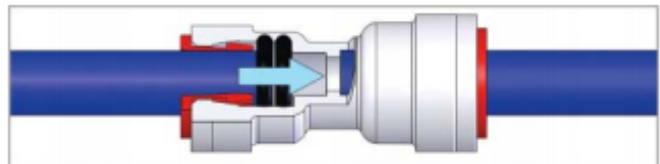


To Remove Push-Connect Tubing



Remove the tube by holding the round retention ring tightly against the fitting then pull the tubing away from the fitting while twisting and the tubing should slowly release from the fitting.

To Connect Push-Connect Tubing



Push connect fittings are connected by firmly pushing one end of the tube into the fitting. It is important to push the tubing all the way into the fitting for a complete seal.

Installation Instructions

Before making any adjustments to your RO/DI system you must first identify if your current system utilises a capillary style or barrel style flow restrictor.

Begin by locating the waste water line and following it back to your RO Membrane Housing. Look for a fitting like the new barrel flow restrictor you received with your upgrade kit eg.



If you were able to locate an existing flow restrictor, **remove it and skip to step 4**, otherwise your system utilises a capillary style flow restrictor and you will need to begin from step 1.

1. Begin by removing the waste water line from the push connect fitting attaching it to your RO Membrane housing. The wastewater connection will be the one closest to the outside of the RO membrane housing:



2. Unscrew the fitting which was attaching the wastewater tube to the RO membrane housing, inside of it you will find the capillary style flow restrictor. Remove it and reattach the fitting by screwing it back onto the RO membrane housing.
3. Reattach the wastewater tube and locate a suitable position along it to install the new flow restrictor, typically 5-10cm from the RO membrane housing. Cut the tube ensuring the cut is clean and straight.
4. Inspect both ends of the RO tube, if either is damaged or not cut square, trim them to ensure a 12mm smooth section of tube can be easily inserted into the flow restrictor.
5. Inset the flow restrictor by pushing both ends of the tube into the quick connect fittings firmly. Make sure to pay attention to the directional arrow on the restrictor, it must point away from the RO membrane.

6. Lastly, unscrew the RO membrane housing cap(s), remove the old membrane(s) and insert the new ones included with this kit. Pay attention to the orientation of the membranes, the end of the membrane with the o-rings must be inserted first. The can require some force and will 'click in' once seated correctly.

Operating Instructions

After installing a new RO membrane the system should be run for 45 minutes and the water discarded. This is to ensure that any preservative present in the membrane is rinsed out thoroughly.



During this time it is important to check for any leaks which may have arisen from modifying or moving any of the system components.

Need Help?

We are always here to help! Please get in touch with us...



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