



What Are the Benefits of This Upgrade?

The 100 GPD Premium Upgrade Kit will give your system the ability to produce twice as much water as a system running a standard 50 GPD membrane and will also cut the amount of wastewater in half.

The 100 GPD Premium Upgrade Kit will increase the production of any 50 GPD reverse osmosis system to 100 GPD without having to use any additional water.

What Do I Need?

This kit includes everything that you will need to successfully upgrade your 50 GPD system to a 100 GPD system.

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

- 1 x RO Membrane Housing
- 1 x Pure-Pro TW30-1812-50 - 50GPD RO Membrane
- 3 x 1/8" x 1/4" 90° Elbows
- 1 x 1/4" Tube Splitter
- 1 Metre of 1/4" White Tubing
- 2 x 2.5" x 2.5" Double Membrane Housing Clip

Useful Tools

- RO Tube Cutters or a Utility Knife



Before You Get Started!

This upgrade kit requires a minimum of 65 psi on your home's water pressure to work effectively and efficiently. If your water pressure is below the required 65 psi, you can install a booster pump (sold separately).

Additional Documentation

Full flow diagrams for this upgrade kit can be found online under the flow diagrams heading at reefpurero.com.au/user-manuals-downloads

Installation Instructions

1. To prepare your RO/DI system for the upgrade, please ensure that the feed in water has been turned off before disconnecting any plumbing on your system. It is best to complete this work in an area prepared to contain any water which may drain from your system.
2. Now locate and disconnect the red or black waste water tube from your existing membrane, along with any installed flow restrictors or manual flush valves by releasing the push connect fittings.



IMPORTANT: Most Reef Pure RO/DI systems utilise capillary style flow restrictors. These are housed inside the 90° waste water elbow, which is connected to the RO membrane housing. This can easily be removed by unscrewing the 90° elbow from the existing membrane housing and pulling the flow restrictor out of the elbow. They are usually a bright purple colour and are easy to identify. Once the flow restrictor has been removed, replace the elbow.

Do not discard the capillary style flow restrictor as it will need to be installed in the new 90° waste water elbow connected to the new RO membrane housing as instructed in step 9.

3. Disconnect the white product water tube from the existing RO membrane.
4. Using the white tubing provided with your kit, cut 1 x 40cm length and connect this to the wastewater fitting on the existing membrane housing.
5. Now we need to assemble the new membrane and housing. Begin by removing the new membrane from the protective plastic wrapping.
6. Unscrew the cap from the new membrane housing and insert the new membrane into the new housing. Please ensure that the end of the membrane with the black rubber seal is on the open end of the membrane housing.



IMPORTANT: It is critical that you ensure that the membrane has been pushed in firmly and as far as it can possibly go. Not doing so could allow high TDS water to bypass the membrane and make its way into your product water, exhausting your DI resin prematurely.

7. Once the membrane has been firmly seated, seal the new membrane housing by replacing the cap and tightening.

8. Now screw in each of the included 90° elbows into the new RO membrane housing. There will be one for the product water outlet, one for the waste water outlet and one for the membrane housing cap. Be sure to place the capillary style flow restrictor you removed earlier from the existing membrane housing, into the 90° wastewater elbow at this time.
9. Now clip the new membrane housing to the top of the existing membrane, using the 2 membrane housing clips provided with your upgrade kit.
10. With the new membrane in place, take the loose end of the white tube you cut and connected to the existing membrane earlier and connect this to the push-connect fitting located on the cap of the new membrane.
11. Take the red or black wastewater tube that you disconnected from the existing membrane earlier and connect this to the wastewater outlet on the new membrane housing.
12. Now that all wastewater connections have been made, we need to connect the product water tubes. Take the white product water tube you disconnected from the existing membrane earlier and connect the included tube splitter to this tube. You will want to connect the end with a single outlet to the existing tube.
13. Cut 2 x 15cm lengths of included white tube and connect these to the 2 outlets on the splitter. These 2 tubes can now be connected to the product water outlets on both the new and existing RO membrane housings to complete the upgrade.

Before Turning the System Back On...

It is also normal to have a slightly higher than usual TDS reading (usually 2-4 ppm higher) once this upgrade kit has been installed. This is because the second RO membrane is being fed water from the waste output of the first RO membrane, so its finishing TDS will be slightly higher than the first.

Lastly, as you have installed a new membrane with this kit, it is very likely that your existing RO membrane will need to be replaced before the new one that has just been installed. We recommend replacing both when the time comes, just to ensure that both membranes are performing equally in future.

Need Help?

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



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