Portable RO System Connection Diagram

Model number: POQ-4 series, POL-4 series

Package contains:
- Portable RO system
- A membrane
- 12 ft ¼” RO tube
- Faucet adapter
- Collet release tool (fork)

For replacement filters, please check model #FS-POQ (or scan the QR code)

Pre-filters should be replaced every 6-12 months, depending on your water quality.
DI filters should be changed every 300-400 gallons, depending on your water quality.
Membranes should be changed every 2-3 years
Installation Guide

Before you connect this RO, you must learn how to properly connect/disconnect quick push-in fittings. The fitting CAN get damaged if inserted tubes are pulled out by force.

TO CONNECT
1. Insert tube all the way into the socket (push it in)
2. Try to pull the tubes to check for security.

TO DISCONNECT
Optional: You may find a collet release tool (fork) to be useful.
To disconnect, all you need is to push on the collet, then pull out the tube.

If using a fork (release tool), push it against the collet. Then pull out the tube.
Installation Step 1: Inserting the RO Membrane

- Take off the aerator from your faucet, and connect the adapter as follows:
- If membrane housing already has the fitting and tube connected, remove tube from RO housing
- Take out the membrane from the clear plastic wrapping, then insert membrane into housing (the end with 2 black rings go in first)
- The membrane must be inserted all the way to the end. You must be able to twist on the cap completely.
- Twist on the cap of the housing, then connect the tube from 2nd stage (carbon) to 3rd stage (membrane).

Important: The housing should come with a white O-ring. The sticky grease on it is Vaseline, which will prevent leaking. If the ring is missing, the housing will leak water.

(Please contact us if you’re missing the O-ring)

Installation Step 2: Assembling Water Feeder

Aerator faucet connector includes:
1. Faucet adapter
2 & 3. Black o-rings for faucet adapter
4. White female/male converter
5. Black o-ring for converter

Assemble the faucet adapter as follows:

1. Cut a section of tube (length is up to you, cut as much as you need) and connect to the adapter. Connect the other end to the 1st stage.

Take off the aerator from your faucet, and connect the adapter as follows:
**Installation Step 3:** Flow Restrictor (Drain)

Cut a section of tube and insert it into the flow restrictor. The other end is where waste water comes out. The ratio from pure water to waste water is 1:3.

*Important:*
- The water that comes out from the restrictor is WASTE water, please do not consume. (You may, however, use it to water lawns, wash clothes/cars, etc.)
- The other end of the flow restrictor MUST be open and free to flow. It cannot be blocked off OR connected back to the RO system as an incoming water source.

You can check our store for a Saddle Clamp Drain Valve (Model No. PT-SAD). It is sold separately and you can use it to connect to the drain pipe.

**Installation Step 4:** Connecting Pure Water Line

Cut a section of tube and insert it into the 4th stage’s output. This is the water purified by the RO system.

**Installation Step 5:** Flushing the RO System

1. Check to see if all the tubes and fittings are secured properly.
2. Turn on the water source and check for any leaking. If a fitting is leaking, please go back and reconnect the tube to the fitting. If you cannot stop the leaking, please contact us.
3. Let about 5-10 gallons of water flush through the system. This way, the pure water will be safe to use.
4. DO NOT consume the pure water produced in the initial flushing of the system.

*After steps 1-5, your water will be ready to use!*
Other Purchase Options (sold separately)

Please check our store at www.purewaterclub.com

Water Feeders Adapter

- ½” Under Sink (PT-310)
- Garden Hose (PT-Q34A)
- 3way switch Faucet (PT-3W2)
- 3/8” Under Sink (PT-38BV)

Pure Water Outlets

- Ice Maker (PT-icemaker)
- Faucet (PT-FAU)
- Float Valve (PT-FV)
- Pressure Tank (PT-tank02)

Other Purchase Options (sold separately)

- Tube cutter (PT-CUT1)
- RO tube (PT-TUB2-25)
- Pressure gauge (PT-PSI-150)
- Auto shut off valve (PT-ASOVQ)
Trouble Shooting

Q: Pure water does not flow out, there is only dripping?
A: Make sure you have enough pressure (more than 35 PSI) to operate the RO and a straightened tube (not kinked).

Q: System produces less pure water than it produces waste water?
A: This is normal; the ratio for the pure water and waste water should be 1:3.

Q: System produces more pure water than it produces waste water?
A: You may have wrong connecting, please re-check our diagram on the first page.

Q: Pure water tastes weird, sulfuric, fishy, etc; water is yellow or black?
A: DI water is no good for human drinking; carbon filter must be added to improve taste. Be sure that you completely flush whole RO system with at least 10-15 gallons of water.

Q: The DI water does not reach 0 PPM?
A: We guarantee you reach 0 PPM water with your DI filter. When your water source has less than 300 PPM, try to reduce the water pressure; a high water pressure will make the water flow out too quickly without allowing enough time for it to filter through.

Q: Is it normal if the RO system makes noise from its auto shut-off valve?
A: Check your water pressure; if you use a booster pump, set it to 60-65 PSI.

Q: The drain water never shuts off?
A: An auto shut-off valve only works with a float valve, or any CLOSED container such as a pressure tank, an ice maker, etc. If the container is not closed, then you have to turn off the incoming water manually.

Q: Leaking problem?
A: First of all, check the leaking from the thread (the screw on the housing side) or from the tube-plug-in side. If leaking is from thread side, please apart the fitting and add more Teflon tape on it, then re-screw it into the housing. If leaking is from tube-plug-in side, cut off a small piece from the end, because the end could be slanted, twisted, or deformed. Please disconnect the tube and re-push the tube all the way into the socket. If the tube is not long enough, replacing a new tube can usually solve the leaking problem.

WARNING

Prepare plumbing tools such as wrenches, screwdriver, Teflon tape, protecting eye-glasses....

Only connect the RO with cold water and a clean water source, NO sea water.
Recommended water source TDS reading not to exceed 1000 PPM.
The RO system should never be placed under direct sunlight or under freezing temperatures if it is placed outside.
Maximum: 113°F Minimum: 33°F
35 PSI minimum is required for the RO to operate, at 65 PSI 25°C is best.
If the pressure of the incoming tap water is too low (less than 35 PSI) A booster pump is required.
If water pressure exceeds 85 PSI, a pressure regulator (PT-regulator) must be installed.

The installer is responsible for any leaks resulting from installation of tube or related fittings.
Must check over the entire unit completely while under pressure to ensure unit is not leaking and functioning properly.
Please flush the whole RO system at least 10-15 Gallons, or drain out the water tank at least 3 times.
RO comes with an Auto shut off valve. An auto shut-off valve only works with a float valve, or any CLOSED container such as a pressure tank, an ice maker, etc. If the container is not closed, then you have to turn off the incoming water manually.
All RO will have to create waste water. Most RO system are designed for 1 : 3.5 - 4.5 as standard.
We used 450 Flow Restrictor, the ratio to pure and waste water=1:3
Replace all pre-filters and post-filters per 6-12 month depends on the water source’s quality.
Replace membrane per 1-2 years.
Change the DI filter per 400 Gallons.