

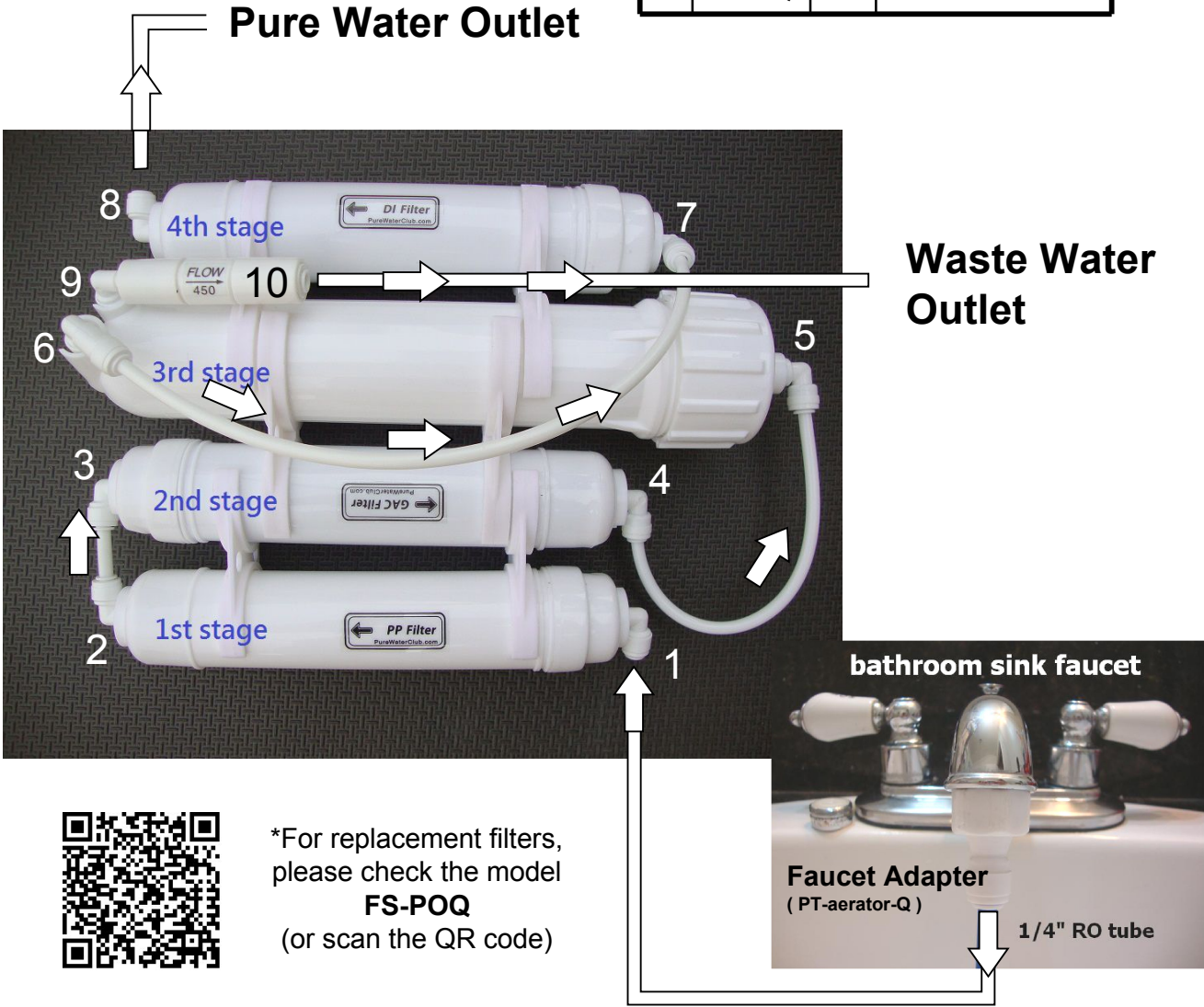
# Portable RO System Connection Diagram

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

**Package contains:**

- Portable RO system
- A membrane
- 12 ft 1/4" RO tube
- Faucet adapter
- Collet release tool (fork)

RO System parts number			
1	4040Q	6	Check Valve
2	4040Q	7	4040Q
3	4040Q	8	4040Q
4	4040Q	9	4041Q
5	4040Q	10	Flow restrictor



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.

## 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.

The portable RO does not come with auto shut-off valve, so it will not auto shut off the waste water even if you install a float valve or pressure tank on the pure water outlet. If you wish for the waste water to be auto shut-off (optional), you must install a ASOV. Please check our website for more details (PT-ASOVQ).

## Trouble Shooting

**Q:** Pure water does not flow out, there is only dripping?

**A:** Make sure you have enough pressure (more than 35PSI) 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 at 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.