
INSTRUCTIONS

LIMITED ONE-YEAR WARRANTY

Hydrofarm, Inc. warrants the product to the original owner to be free of defects in material and workmanship for a period of one year from the date of receipt. This warranty covers filter cartridge housings, fittings and tubing and all components. Filter replacements including sediment cartridges, carbon block cartridges, reverse osmosis membranes are the responsibility of the consumer.

INSTRUCTIONS

ActiveAQUA™

REVERSE OSMOSIS 100



AARO100

INSTRUCTIONS

Congratulations on your new Active Aqua RO water treatment system. Please follow the outlined steps in regards to the installation and maintenance of your water treatment system. Proper maintenance will ensure fresh purified water for many years. If you have any technical difficulties or questions, please do not hesitate to contact us and we will be happy to assist you.

This 100 GPD R/O unit is ready to hook up to your local water source with the included garden hose bib adapter. Active Aqua pressure tests all systems prior to shipping, and your RO membrane cartridge comes pre-installed in the housing.

Before hooking the unit up to a water supply:

1. Unpack your unit completely.
2. Inspect for any damage or broken parts as a result of shipping.
3. Locate and connect the supply side of the equipment. This is the right side as you face the system.
4. Locate the red drain line, and place in an appropriate area for drainage.
5. Do not install the unit where the source/input pressure exceeds 80 psi.
6. Protect the unit against freezing.
7. Keep out of direct sunlight
8. Do not install where leakage or failure may cause damage to property.

*All Clear Canisters MUST be re-placed after 3 years. Please contact us if you have problems with your unit. Customer is responsible for filter and membrane changes and associated costs.



1. Feed Line From Carbon Filter to Membrane
2. Purified Water Line (Blue)
3. Waste Water Line (Red)
4. Automatic Shut-off Valve
5. Flow Restrictor
6. Source Water Connection (White)

SETUP:

Push in the 3/8" white inlet tubing into the 3/8" QC pressure gauge fitting (#6). Connect the 1/4" blue purified water tubing to the outlet of the Automatic Shut-off valve (#2). The system comes with a 3:1 waste water to purified water ratio. This is industry standard for most water sources and gives you the best tradeoff between membrane life and waste water.

Connect the 1/4" red waste water tubing to the outlet of the flow restrictor (#3). You are now ready to connect to your system to the water source using the included garden hose adaptor. Make sure all lines and canisters are secure before turning on the water supply.

1. Source/Inlet Line (White)
2. Purified Water Line (Blue)
3. Waste Water Line (Red)

INSTRUCTIONS

Turn the source water on until both the carbon and sediment filters have water in the housings. Next, open source water up all the way (do not exceed 80 psi). Flush the system for 30 minutes when the system is new and/or when you replace your membrane.

Filter Replacement Recommendations:

MEMBRANE ELEMENT – 6 months to 2 years

SEDIMENT FILTER – Change every 6 months

CARBON FILTER – 3750 gallons (including waste water)

Accessories:

Handheld EC/TDS Meters: A very accurate way to check the performance of your water filtration system. Regularly checking the EC/TDS can help detect any problems with early membrane exhaustion. Checking the purified water output for EC/PPM will give you added peace of mind that your filter is operating properly and your system is receiving the quality of water you need.

RO Water Storage Tanks: These tanks are used by many of our customers to store water or to save up sufficient water to begin a new tank. They can be equipped with automatic shutoff valves to reduce waste water.

Membrane Flush Kits: Flush kits are used to extend the membrane life of the filter.

The three major variables that control water flow through the system are temperature, pressure and incoming water quality!

Filter Change Sheet and Normal Operation:

Note: Filters are referenced in the order in which they appear in the system

1. **Sediment Filter:** This filter is the first stage in the R/O process. The sediment filter effectively removes particles and sediments. An example of a particle that would be removed is sand. The sediment filter's life depends on the amount of total particles in your water supply. The best way to determine when to replace this filter is from a PSI pressure drop. When you see a 5 PSI drop on your unit, you should change the sediment filter. Discoloration is also a sign that the filter is loaded with contaminants and should be replaced with a new sediment filter.

2. **Carbon Filter:** These filters effectively reduce volatile organic compounds in RO water systems. The federal Safe Water Drinking Standard mandates that if you have contaminated drinking water, you need to treat it accordingly. The most cost effective way to predict carbon filter life is by measuring the output in gallons. The carbon block will filter 3,750 gal @ 1.0 GPM of 2ppm Chlorine.

(Do not exclude drain water from this capacity, as it is treated water.)

3. **Reverse Osmosis Membrane:** This is the first component in the system that reduces Total Dissolved Solids (TDS); a common example of dissolved solids can be salts or calcium. A TDS meter is the best way to determine if your membrane is operating properly. A properly operating membrane will give you a TDS reduction of at least 90%. Membranes can fail due to Clogging or Scaling, in this situation very little or no purified water will be produced from the RO's blue line.