



AQUASPACE®
WATER SYSTEMS

AQUARIUS WATER FILTER SYSTEM

AQ-100 Under The Sink Series (AQ-120, 120F, 125, 125F, 135F, 135N, 135R, 135F/AT etc.)

1. Please read this entire instruction Sheet prior to installation of filter.
2. Unit is to be installed on the cold water line ONLY!
3. Unit is to be protected from *freezing*. Failure to do so could cause severe damage to the filter.

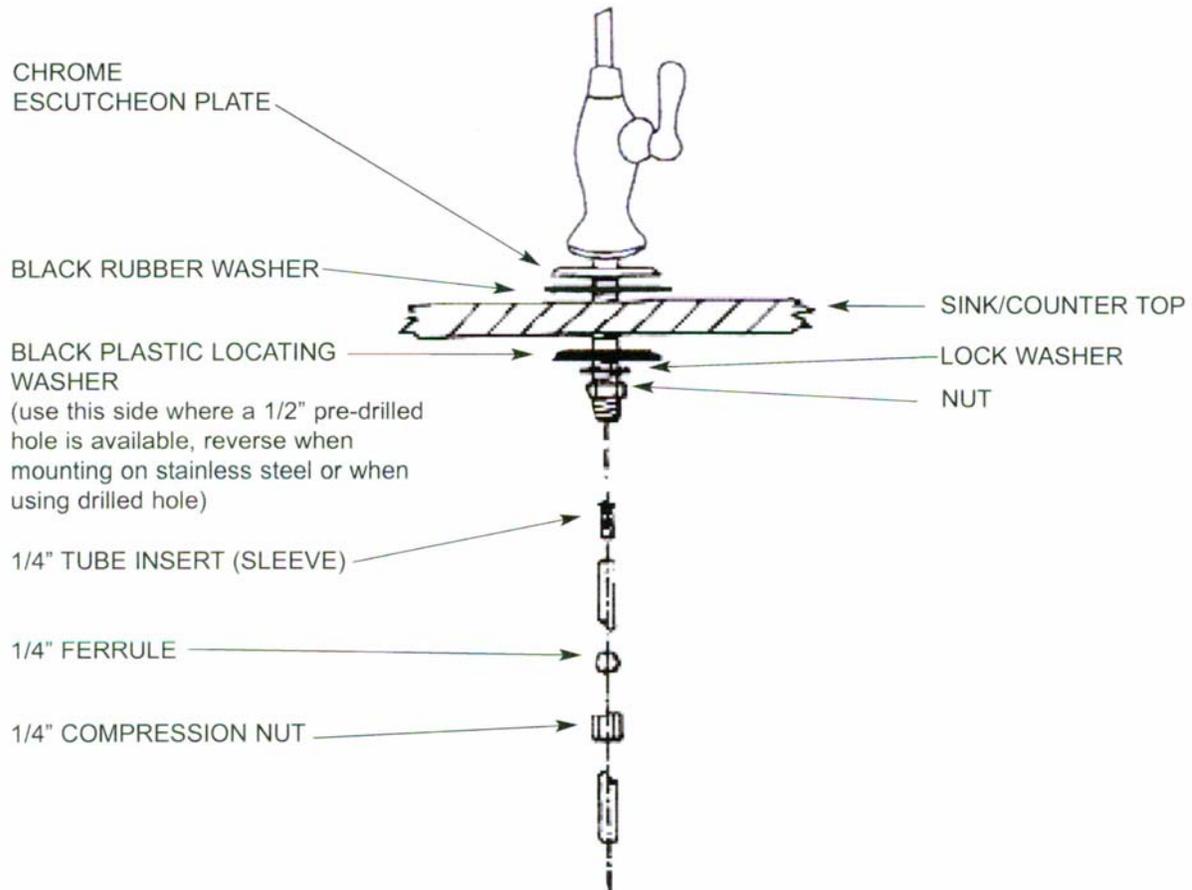
INSTALLATION

Faucet Attachment

Locate the position on the sink where you want to install the faucet. Some sinks have a pre-drilled hole for accessories that may not be in use (Sprayer, Soap Dispenser, etc.). This may be the most practical location. If there is not an open hole, you will have to drill a hole to mount the faucet. Stainless steel sinks will require 7/16" minimum hole. Enamel sinks require 1/2" masonry drill bit. If you are drilling on an enamel sink, use masking tape to cover the area where you are going to drill to avoid chipping.

Faucet Installation Procedure:

The installation of the faucet is not difficult, but is MUCH EASIER if two people install the faucet when it comes to the part of tightening the nut on the faucet. First, insert the faucet into the sink opening as pictured in the diagram, placing the CHROME ESCUTCHEON PLATE and BLACK RUBBER WASHER onto the FAUCET, then place the faucet into the hole. Next, from under the sink, place the BLACK PLASTIC LOCATING WASHER, LOCK WASHER and NUT onto the faucet by hand and tighten the nut a few turns by hand; we then recommend that one person



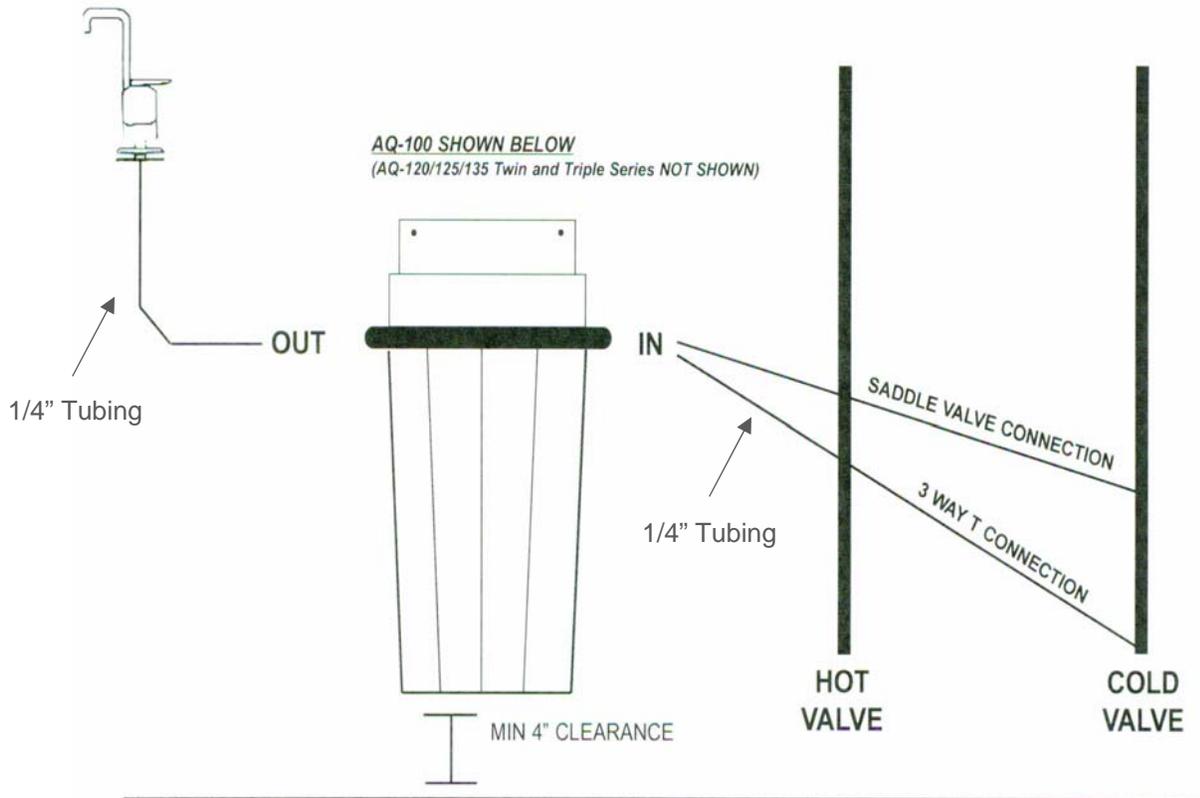
holds a small wrench on the faucet NUT in place while the second person tightens the faucet body by hand by rotating the faucet body as if screwing it onto the nut below. Once hand tight and with the body in the position as desired (HANDLE POSITION), the person under the sink can then use the wrench to tighten the faucet nut.

If removing an old faucet prior to installing the new faucet, this TWO PERSON procedure is also recommended.

The Bracket is pre-installed on the AQ-125/135 Twin and Triple Series

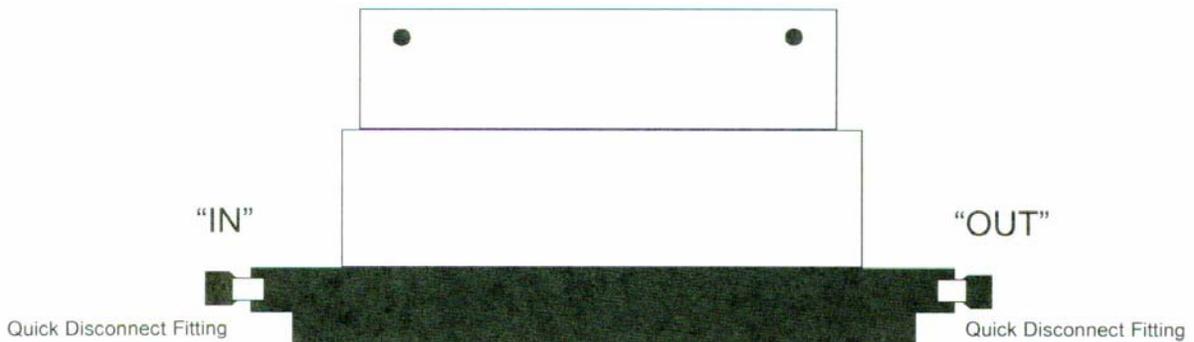
Bracket Attachment (AQ-100 only)

Attach the Bracket to head of the filter housing with four screws supplied, so that inlet "IN" port will be facing in the direction of the cold water line for the sink when mounted on wall.



Tubing

Locate position on wall that you wish to mount unit. Allow for a minimum of 4" clearance from floor. Cut tubing in two pieces that will connect filter housing to the faucet cold water supply line – measure approximate distance plus



a few inches. DO NOT CUT TUBING SHORT! It will not stretch. Remove any burrs that might exist on tubing and make sure that ends are flush. Extra tube length is OK. Attach tube fittings into filter housing "IN" and "OUT" openings. Push tube straight into opening until it stops. This will be approximately 3/8" if tube insertion into the fittings.

Warning: If you live in an area that is susceptible to excessive surges of water pressure (70 PSI or more), or freezing of pipes where the unit is to be installed, it is recommended that you substitute 1/4" copper tubing for the plastic tubing supplied with the kit (available at your local hardware store). IF YOUR WATER PRESSURE EXCEEDS 70 PSI, YOU MUST INSTALL A WATER PRESSURE REDUCING VALVE. Your unit warranty is void if used on pressure of 70 PSI or greater.

To mount the unit to the wall:

Use appropriate mounting screws for type of wall material you will be mounting to (for example, wood screws for wood, toggle bolts for wall board etc.). It is not necessary to mount unit on the wall, but it is best to operate the unit in the vertical position. If you decide not to mount the unit on the wall, leave excess tubing so that you can position the unit in a convenient location under the sink. When mounting unit to wall, it is necessary to have a 4" minimum clearance space between the bottom of the unit and the floor of the cabinet. 6" is recommended so that you may place a shallow pan or bucket under the unit during cartridge replacement to catch any drips or spills that occur during the replacement process.

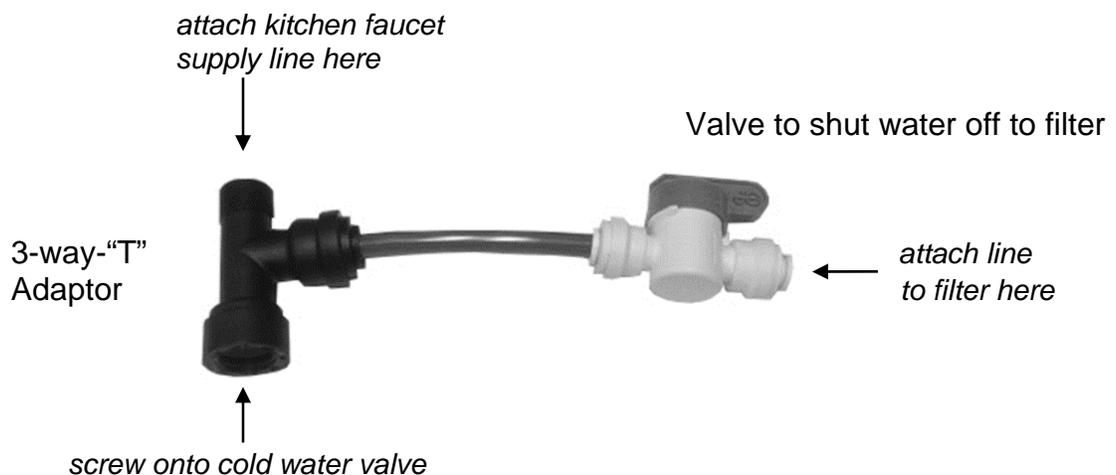
Note: it is recommended that the AQ-125/135 Series using the Microbial Ceramic Cartridge (AR-900C) should be installed with Microbial Ceramic Cartridge's housing positioned for easy access (mount Microbial Ceramic Cartridge's Housing facing cabinet opening).

Supply Line hook up: it is recommended that you run both hot and cold water, so that you may positively identify the cold water line. Leave cold water faucet running and shut off the cold water supply valve. It is important that this valve is working before you proceed to the next step.

To attach Tubing to filter:

Push tubing into center of Quick Disconnect Fittings located on unit. Push tubing until it comes to a firm stop. To remove tubing, depress collar around tubing and pull out tubing from fitting while depressing collar.

Your Aquarius Under The Sink Faucet Kit comes with a 3 way "T" Adaptor. It is recommended to use the 3-way-"T" Adaptor if you have a working supply valve with 3/8" compression nut on your cold water supply line to your faucet. If you have a "hard" copper line supplying your faucet, you may find it easier to use a Saddle Valve on the copper line. Saddle Valves are readily available at most hardware stores. The Saddle Valve is only to be installed on copper pipe between 1/4" and 1/2" in size.



To install the 3-way-“T” Adaptor (after cold water is closed), unscrew compression nut, which connects faucet supply line to valve. Attach 3-way-“T” Adaptor to valve, then re-attach supply line to top of “T” Adaptor. It is recommended to use 2 wrenches, one on the nut, and one on the valve or “T” when tightening fittings.

The unit also comes with approx. 9 feet of 1/4” Polyethylene Tubing. Locate the unit under your sink and measure tubing for the in/out supply connecting prior to cutting the tube and attaching to fittings. You may want to use extra length so you could pull the unit toward the cabinet opening to ease cartridges replacement during servicing.

To attach Saddle Valve (not included):

Be sure that handle on valve is fully “open” and self piercing point is retracted. Adjust insert to best match pipe size and hold in place while tightening set screw. Attach supply tube to filter to either “T” Adaptor or Saddle Valve as in earlier fitting attachments (*see below for cartridges applicable to your model. AQ-120, 120F, 125, 135F, 135F/AT Series have cartridges pre-installed*).

After cartridge installation, you are ready to use your Aquarius Water System:

1. Lift handle on filter faucet to the upright position. This position is used for continuous “hands off” flow.
2. Open supply line valve slowly
3. If you installed a Saddle Valve, you will have to first close valve all the way (there will be a slight resistance), thus piercing the copper pipe. Then slowly open the Saddle Valve to the full open position.

Check entire system for leaks. Close lever on faucet and check for leaks again. In disturbing your water system with this installation, some air may become trapped in the system and filter resulting in bubbly water when you first use your new faucet and Aquaspace filter. Flush the system thoroughly. The condition should clear up after a few days of use even if some bubbles remain after flushing.

Note: AQ125/135 Series utilizes a Microbial Ceramic Cartridge. Your unit is shipped from the factory with the Microbial Ceramic Cartridge in the first housing. One option is to move the Microbial Ceramic Cartridge in the last housing. If located in the last housing, you reduce the frequency of cleanings. However, this orientation will require a 10-minute-flush followed by a 24-hour-non-use period, and a final 10-minute-flush before initial use of a new unit. If in the first housing, the Microbial Ceramic Cartridge will protect the other cartridge(s) from premature clogging due to sediment.

For controlled flow of water through faucet, push handle down until desired flow rate is obtained. Lift handle up for continuous “hands off” flow.

Note: To obtain maximum removal efficiency, adjust water flow with filter supply valve. Flow from faucet should not exceed one gallon per minute. To accurately adjust the water flow, time with empty gallon jug and timer (watch, stopwatch, digital watch, clock, etc.).

Place the “Date Installed” sticker in a highly visible space to remind you when to change the cartridges.

Note: A plastic wrench is provided for assisting with cartridge housing removal only – **DO NOT** use to tighten housing!

Cartridge Life Cycle:

Aquaspace Cartridge: AR-100 incorporates patented Aquaspace media, which is very effective in reducing bad tastes, odors, color, chlorine, a wide range of both organic compounds (such as herbicides, pesticides, and industrial solvents–VOC's), and inorganic compounds (such as lead), yet leaves in the essential minerals needed for good health, and without reducing pH. Rated for 1,000 gallons or 12 months, whichever occurs first.

Aquaspace Fluoride Reduction Cartridge: AR-100F reduces the fluoride added by municipalities to undetectable levels. This cartridge will also continue to reduce inorganic metals (such as lead, arsenic etc). Rated for 500 gallons or 6 months, whichever occurs first (comes in a set of 2 – for a year supply).

Aquaspace Nitrate Reduction Cartridge: AR-100N reduces the Nitrate. Rated for 1,000 gallons or 12 months, whichever occurs first.

Aquaspace Radium Reduction Cartridge: AR-100R reduces the Radium. Replace cartridge every 6 months to prevent accumulation of excessive levels of radiation.

Sediment Cartridge: APR-105 reduces sediment in the water, rated 5 micron, should be changed whenever you observe a reduction in flow.

Multi-Sectional 4-in1 Super Sediment Cartridge: APR-4N1 reduces sediment in the water, rated 30-15-05-01 microns, should be changed whenever you observe a reduction in flow.

Microbial Ceramic Cartridge: AR-900C controls bacteria and cysts. Rated for 1,500 gallon, or 50 cleanings, or 24 months, whichever occurs first.

Replacement Procedures:

AQ-100 Series (all AQUASPACE 9 ¾" Replacement Cartridges: AR-100, AR-100F, AR-100N, AR-100R, APR-105, APR-4N1 & AR-900C)

To install your cartridge properly, remember that the water supply valve to the filter must be closed and the water pressure must be lease by opening up the filters faucet before you can unscrew the housing from the lid. Place pan under housing to catch water that will spill while unscrewing housing.

Aquaspace Replacement Cartridge: AR-100, AR-100F, AR-100N, AR-100R (for AQ120 & AQ-135 Series)

Your Aquaspace Replacement Cartridges (AR-100 Series) are manufactured to only can fit one way into the housing. Insert into housing with the cartridge rubber gasket facing the open end of the housing. Be sure to inspect the black rubber O-Ring to make sure it is in place. The O-Ring should be seated fully in its groove at the top of the housing. Replace housing onto lid. Hands tighten only. DO NOT OVER-TIGHTEN.

Allow water to rinse through the filter for 5 minutes before use. This procedure will remove most of the carbon fines and air trapped in the unit. It is common to see air in the filtered water for up to a few days after installation or cartridge replacement.

Sediment Cartridge: APR-105 & Multi-Sectional 4-in1 Super Sediment Cartridge: APR-4N1

Your Aquarius AQ-120 and AQ-135 Series can accommodate a 9 ¾" Sediment Cartridge: APR-105 & Multi-Sectional 4-in1 Super Sediment Cartridge: APR-4N1. Generally, the cartridge is to be replaced when the sediment builds up to point that it creates a pressure loss (loss of water flow). The Sediment Cartridge is the first cartridge in your system. Replace Sediment Cartridge using procedures for AR-100 Series. It does not matter which end of the sediment cartridge is up. Prior to reinstalling housing, inspect housing to make sure that the black "O"-ring is still seated in the grove of the housing.

Microbial Ceramic Cartridge: AR-900C

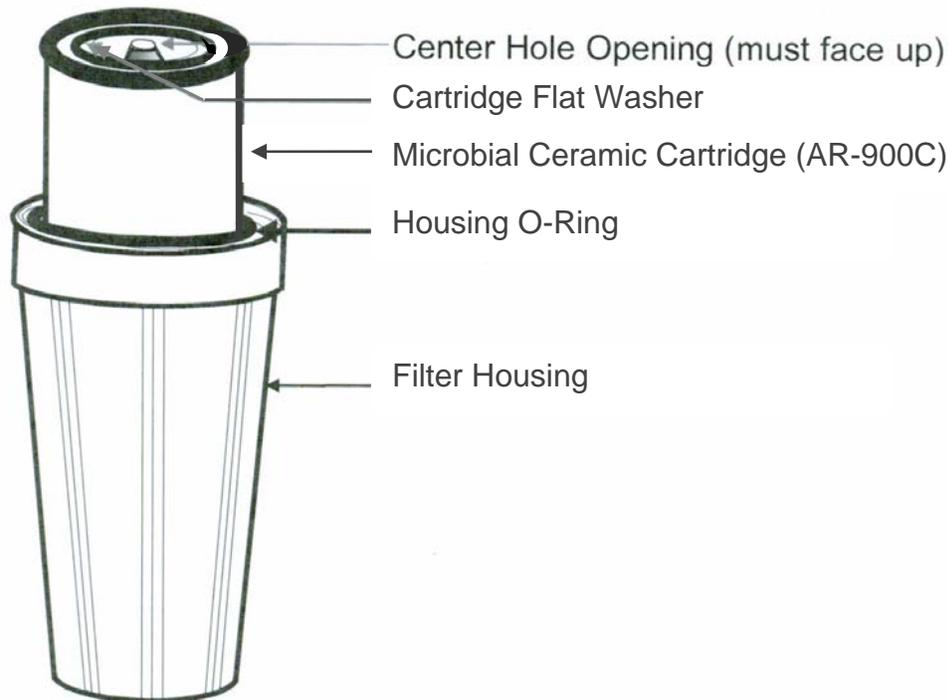
See details in attached AR-900C Maintenance and Replacing Instructions.



Microbial Ceramic Cartridge

AR-900C

MAINTENANCE AND REPLACING INSTRUCTIONS



The Microbial Ceramic Cartridge (AR-900C) has two black cap ends; one solid end, and another with a small hole (hole opening), as shown in the figure above. The end with the opening in the center also has silver writing on it. First, put the cartridge in the housing so that the end with the small hole faces the out towards the cap, as shown above. The filter housing has a black "O-Ring" that must be seated in its place correctly before fitting the housing onto the cap. Only hand-tighten, **DO NOT OVER-TIGHTEN**.

- NOTE:**
1. The cartridge has a black Flat Washer at each end. When removing the old cartridge, please make sure that the black Flat Washers are still attached and have not come off. If you find black Flat Washers from the old cartridge in the housing, please remove them before installing the new cartridge.
 2. After installation, the cartridge is to be initially rinsed for 5 minutes. Allowed to sit for 24 hours, then rinsed again for 3 minutes. The procedure during this period allows the air trapped in the ceramic to be released. The water is safe to drink but may have white air bubbles in it.

CLEANING INSTRUCTIONS: Due to filtration of contaminants in the water during filter use, the flow of the water from the filter will decrease. The flow can be restored by cleaning the cartridge as follows:

1. Turn the water on at the faucet, then close the supply at the valve under the sink.
2. Unscrew the housing just like unscrewing a light bulb and remove the Microbial Ceramic Cartridge from the filter housing.
3. Place the cartridge under running water and scrub thoroughly using Plumber Sand Cloth (120 grit wet/dry sand cloth strip). After cleaning the entire cartridge surface, rinse outside of cartridge and replace the cartridge, as shown above. The AR-900C is rated for 1,000 gallons, or approximately 50 cleanings, or 2 years, whichever occurs first. If after a good cleaning and the water flow does not improve, it is probably time to replace one of your other cartridges.

PRIOR TO REPLACING HOUSING: Check to insure that the O-Ring is securely in place in the groove provided for it. Occasionally, the O-Ring will come out of its groove and stick to the underside of the lid. Should this occur, simply replace the O-Ring back into the groove located at the bottom of the housing threads. Hands tighten housing into lid.