Manual for Installation, Operation and Maintenance of 6 Stage Point of Use Reverse Osmosis System with UV Disinfection



System Flow Rate	Model Number
12 Gallons Per Day	AAA-126UV*
24 Gallons Per Day	AAA-246UV*
36 Gallons Per Day	AAA-366UV*

System Flow Rate	Model Number
50 Gallons Per Day	AAA-506UV*
75 Gallons Per Day	AAA-756UV*
100 Gallons Per Day	AAA-1006UV*



Industry Leader in RO Expertise and Membrane Applications since 1983™

INC® Systems ◆ INC® Systems ◆ INC® Filters





Introduction

Please read this entire service guide prior to beginning installation.

The Applied Membranes reverse osmosis drinking water system has been designed for quick and simple installation and maintenance. By carefully reading this instruction manual and following the operational guidelines you will ensure a successful installation and reliable operation. Routine maintenance is essential to the longevity and performance of the system. Filters should be changed every three to six months depending on the quality of the feed water supply.

Conditions for Operation

Source Water Supply			
Community/Private	Non-Chlorinated – or chlorinated as long as the carbon filter is in place and replaced every 6 months. Membranes will be damaged by chlorine.		
System Pressure	40 psi minimum -100 psi maximum		
Temperature	4°-38° C (40°-100° F)		
Maximum Supply TDS Level	1500 ppm (mg/L)		
Turbidity	<1.0 Net Turbidity (NTU)		

Chemical Parameters		
Hardness (CaCO3)	<175 mg/L (<10 gpg)	
Iron (Fe)	<0.1 mg/L	
Manganese (Mn)	<0.05 mg/L	
Hydrogen Sulfide (H2S)	0.00 mg/L	
Chlorine (CL2)	0.00 mg/L	

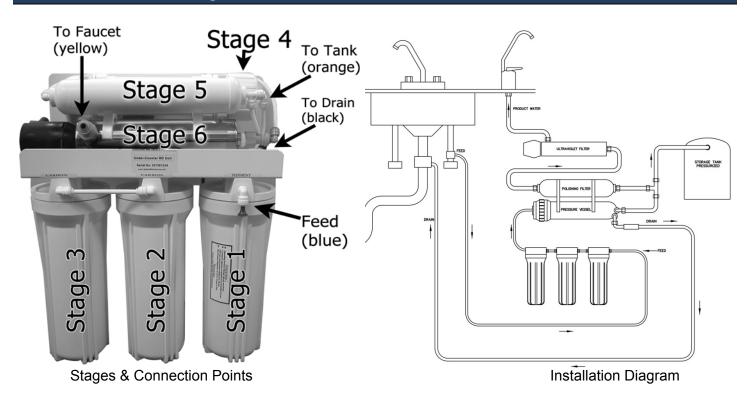
Warnings



- > Only use this system on potable water supplies. Do not use this system where the water is microbiologically unsafe or of unknown quality.
- > Never use hot water or allow the unit to freeze.
- Incorrect installation or operation will void the warranty.



About Your RO System



5 Stage Reverse Osmosis Water System

Stage	Description	Replacement Schedule
1 st Stage	Sediment pre-filter	Every 3-6 months
2 nd Stage	Carbon block pre-filter	Every 3-6 months
3 rd Stage	Carbon block pre-filter	Every 3-6 months
4 th Stage	Reverse osmosis membrane	Every 12 months
5 th Stage	Post carbon filter	Every 3-6 months
6 th Stage	Ultraviolet sterilization unit (UV)	Every 12 months (lamp)

Connection	Location	Tubing Color
System Feed (IN)	From feed line to port at the entrance of the first filter housing.	Blue
Reject Water	From the flow restrictor to the drain saddle.	Black
Product Water – Tank	From the tee on the post-carbon inlet to the tank inlet/outlet.	Orange
Product Water – Final From the ultraviolet system outlet to the faucet.		Yellow



Preparing For Installation

Check the following list of components to ensure that all parts are packed with your system.



Recommended Tool List:

Have the below tools on hand before beginning installation. These are not included with the system.

- ♦ Variable speed drill with 1/8", 1/4" & 7/16" drill bits
- ½" and ½" open-end wrenches (or adjustable)
- ♦ Phillips screwdriver
- Utility knife
- Teflon tape

Check Location:

Determine the location for the installation of the RO system. Avoid locations where the system might come in contact with hot water pipes or other hazards. An electrical outlet is needed for the UV power supply.

Determine the location for the faucet. Check to see that drilling the faucet hole will not damage pipes or wires running underneath the sink.

Determine the location for the storage tank. A maximum distance from tank to faucet of 15 feet is possible (additional tubing will be needed). The system will produce a faster flow at the faucet with the shortest tubing run from tank to faucet.



System Mounting

Determine whether mounting the system to the wall is necessary or desired. This can be optional. Dry wall anchors and screws may be necessary (not included with the system).

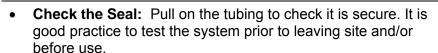
- 1. Mark screw locations at the desired positions. Use the two holes on the back of the RO System mounting bracket for marker guides.
- 2. Screw the screws into the mounting wall on the marked positions. Use an anchoring device appropriate for the type of material you are screwing into.
- 3. Hang the purification system onto the screws by the holes on the back of the unit.

Fittings and Tubing:

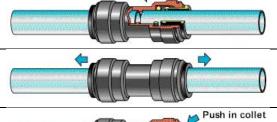
Compression fittings are used throughout the system. To ensure an optimal seal, tubing should be cut with the end square. An angled cut or distortion of the tubing will not provide an efficient seal and may cause leaks. Determine the length of tubing needed for each connection and cut each segment of tubing to the appropriate length.

To ensure a secure seal using quick connect fittings:

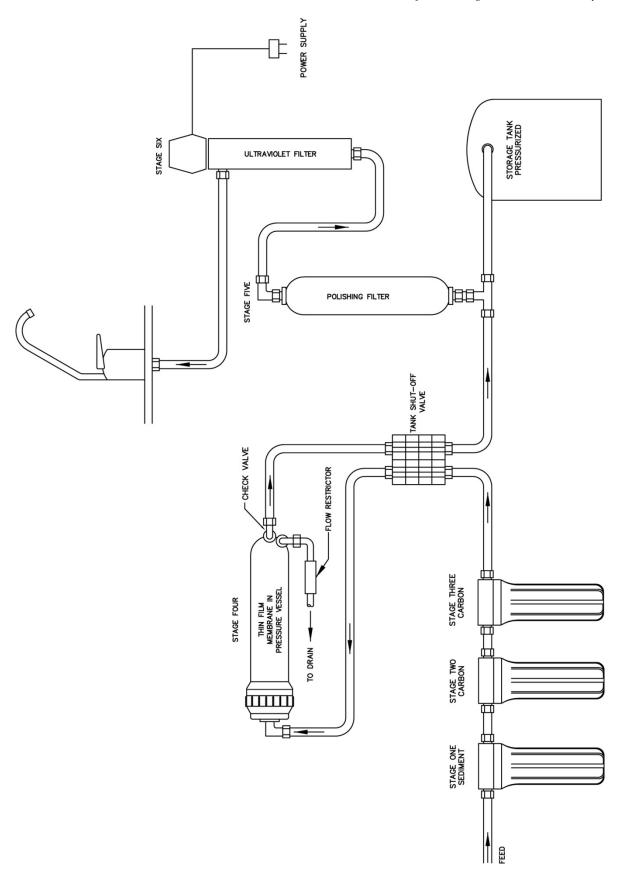
 Push the tubing into the fitting, to the pipe stop. The collet (gripper) has teeth which hold the tubing firmly in position while the 'O' Ring provides a permanent leak proof seal.



 To Disconnect: Ensure system is depressurized before removing fittings. Push in the collet against the face of the fitting. With the collet held in this position the tube can be removed. The fitting can then be re-used.







Starting Your Installation

1. Shut Off the Water

a. Locate the valve in the cold water feed line you use for the supply.



Accidentally hooking up the system to the hot water supply line will permanently damage the membrane (see conditions for operation). To assure you are using the cold water line, turn on both the hot and cold faucet. After the water is warm to the touch, feel the pipes under the sink. It will be easy to identify the hot and cold pipes.

b. Close the cold water valve. Turn on the cold water faucet only to assure that the line is completely shut off and the line is drained. If no shut off valve is located under the sink, or if water continues to come out of the faucet, turn off the main supply at the entry to the house.

Feed Adapter Installation

For this, step, you will need:

- Wrench
- o Teflon Tape



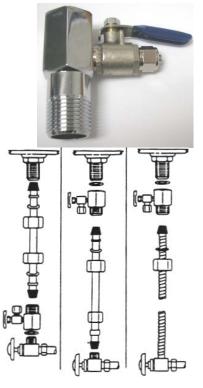
1. Install the ball valve into the slip joint adapter.

Wrap the threads on the ball valve with Teflon tape, approximately 3 wraps. Screw the ball valve into the slip joint adapter.

2. Install the Supply Feed

Wrap the slip joint adapter with Teflon tape, approximately 3 wraps.

- a. <u>Flex Line</u>: Loosen nut and separate cold water riser tube from faucet shank. Gently bend riser rube so that slip joint fits onto faucet shank. Make sure the flat washer is on top and the cone washer is on the bottom. Reinstall riser tubes onto slip joint adapter and tighten.
- b. Solid Copper Riser Tube: Same procedure as flex tubing except you must cut a piece of the riser tube about 3/4" to 1" so the slip joint adapter can fit between faucet and riser tube





3. Connect the feed line to the ball valve.

Unscrew the nut from the ball valve. Slide the nut onto the tubing, threaded sides facing the end of the tubing. Feed the nipple on the ball valve into the tubing, pushing the tubing until it slides over the lip. Slide the nut to the threads on the ball valve, and tighten the nut down over the tubing. Use a wrench to tighten ¼ turn past fingertight.



4. Connect the other end of the tubing to the feed port on the RO System.







Drain Saddle Installation

For this step you will need:

- Variable speed drill w/ 1/8" and 1/4" drill bits
- Phillips Screwdriver





1. Drill a ¼" hole in the drain pipe

- a. Select a location for the drain hole based on the design of the plumbing. It should be installed above the trap and on the vertical or horizontal tail piece. Locate the drain connection away from the garbage disposal to prevent potential contamination and system fouling.
- b. Starting with the ½" drill bit, drill a ½" hole in the drain pipe. Use the ½" drill bit to enlarge the hole. Clean the debris from the pipe and the hole before continuing.



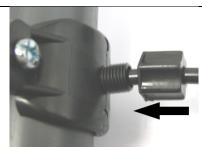
2. Install the drain clamp

- a. Remove the black plastic nut from the front of the drain saddle assembly and set aside.
- b. Place one half of the plastic drain saddle assembly on each side of the drain pipe with the fitting, and clamp loosely using the nuts and bolts included.
- c. Align the hole drilled in the drain pipe with the hole in the drain saddle. A drill bit or other long narrow object may be used to help align correctly.
- d. Use Phillips screwdriver to tighten the clamp. Avoid over-tightening.



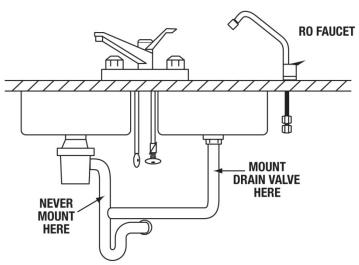
3. Install the drain tubing.

- a. Slide the black nut onto the end of the black plastic tubing, threads facing outward.
- b. Insert the end of the black tubing into the fitting on the drain saddle.
- c. Secure the connection by tightening the nut onto the threaded fitting.



4. Connect to the RO System

Connect the other end of the tubing to the 'out' side of the flow restrictor on the RO System.





NOTE: Some states require the use of an air gap faucet. Check your local plumbing code to assure compliance.



Mounting the Tank Ball Valve & Connecting the Tank

For this step you will need:

o Teflon Tape







Note: Do not tamper with the air valve on the low side of the storage tank. It has been factory charged and covered with a blue cap.

- 1. Locate the in/out port on the top top of the tank. Wrap the threads with Teflon tape, approximately 3 wraps. Connect the tank ball valve by threading onto the fitting. Do not over-tighten.
- 2. Insert the tubing into the quick connect fitting on the ball valve.



3. Connect the other end of the tubing to the tee on the post filter inlet.



Tank Valve in OPEN Position



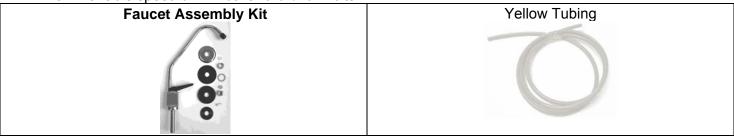
Tank Valve in CLOSED
Position



Faucet Installation

For this, step, you will need:

- o Wrench
- o Variable speed drill w/ ⅓" and 7/16" drill bits



Determine the desired location for your RO Faucet

The product water faucet may be installed on any flat surface at least 2" in diameter. Check the underside of the location for interference. The standard faucet that is supplied with the system requires a ½" diameter hole. The optional air-gap faucet requires a larger hole of ¾" to allow for the additional tubing connections.

Stainless Steel Sinks

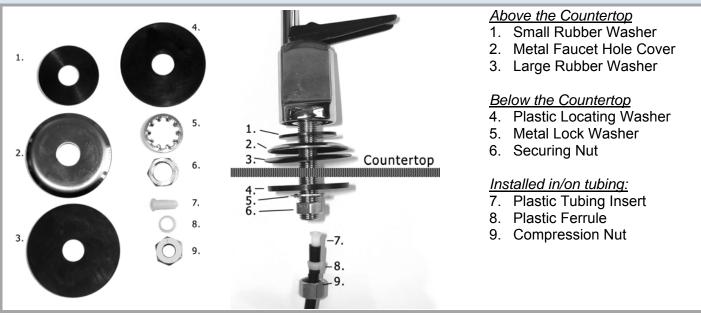
Begin by placing a piece of masking tape or duct tape on the determined location where the hole is to be drilled. Make a small indent to mark the desired drilling location using a center punch. Drill a pilot hole with a ½" metal drill bit. Enlarge the hole using a ½" metal drill bit, using factory approved method or approved plumbing practice.

Porcelain/Enamel Sinks or Tile Countertop

Sinks of this type are very easy to damage due to the nature of the materials of construction. A successful installation into these sinks requires a knowledgeable technician with the proper cutting tools. We strongly recommend the use of a "Relton" type device. Follow the directions that accompany the tool carefully.



Faucet Installation



- Slide the small rubber washer, then the metal cover, then the large rubber faucet over the mounting tube onto the faucet base, in that order so that the small rubber washer is on top.
- Insert the mounting tube into the hole in the sink and position the faucet correctly.
- From under the sink, install the plastic locating washer followed by the metal lock washer onto the threaded mounting tube, and secure them with the securing nut. Screw on the nut and tighten.
- Feed the compression nut onto the tubing, threaded side facing the end, then
 feed the plastic ferrule and install the tubing insert into the end of the tubing.
 Insert the end of the tubing into the faucet mounting tube as far as it will go
 then tighten the nut with a wrench.
- The other end of the tubing should then be connected to the outlet on the UV.



Note: Non-Air Gap Faucet – Comes with the system. (Air Gap may be purchased separately - part number H-T5022.) Some states require the use of an air gap faucet. Check your local plumbing code to assure compliance.

Note: The plastic faucet bracket (included) may be used in locations where there is no countertop to install the faucet onto.

Additional Point of Use Connection (Optional)

Note: To connect an additional point of use (icemaker, extra faucet, etc.), place an additional "T" connector in the ¼" line between the faucet and the RO system. Ensure that all tubing and fittings used for RO product water are poly material, and not copper. Due to RO product water being very pure, it can leach the minerals from copper tubing which will cause a metallic taste in the water or ice and cause the copper tubing to develop pinhole leaks over time.



Turning the System On for the First Time

Make sure all water supply /drain lines are secure and free from leaks.

- 1. Ensure the tank valve is in the closed position. (The handle should be perpendicular with the tubing as it enters the connection.)
- 2. Slowly turn the feed valve counterclockwise until fully open (the handle should be in line with the tubing as it enters the connection). Check the stem seal for leakage. If necessary, tighten stem nut lightly.
- 3. Open the faucet and allow the system to run for 15-30 minutes to purge the air from the system.
- 4. Close the faucet.
- 5. Turn storage tank valve one quarter turn counterclockwise to open the valve (the handle should be in line with the tubing as it enters the connection) and allow the tank to fill.
- 6. Open the water faucet and let the water flow until the remaining air has been expelled from the system.
- 7. Close the product water faucet. In 30 minutes, check the connections for leaks and correct if necessary.



Do Not Use the First Two Reservoirs of Water. Allow the reservoir to fill for 4-6 hours. Dispense this water to drain. This process removes the factory installed sanitizing solution from the entire system and sends it to the drain. Repeat this process one more time. Allow the tank to fill for 4-6 hours and dispense this water to the drain.









Tank Valve in OPEN Position

Tank Valve in CLOSED Position

Feed Valve OPEN Position

Note: Air bubbles may be present in the product water after initial system startup, causing a milky color in the water. This is normal and safe to drink. The air bubbles will disappear within a few days of regular use.

System Maintenance



CAUTION: Unplug the Ultraviolet unit before performing any maintenance to the system.

Recommended Maintenance Schedule:

Below please find the recommended maintenance schedule. The frequency will vary with incoming water quality. Poor water quality requires more frequent maintenance, and better water quality may allow longer filter cartridge and membrane life. Generally speaking, replacement and sanitization/cleaning should be performed as needed based on any drop in system performance.

Maintenance:	3 Month	6 Month	9 Month	Yearly
Replace Sediment Pre-Filter	✓	√	✓	✓
Replace Carbon Pre-Filters	✓	✓	✓	✓
Replace Membrane Element	-	-	-	\checkmark
Replace UV Lamp	-	-	-	✓
Check & Clean Quartz Sleeve	-	-	-	\checkmark
Sanitize the System	-	-	-	✓
Replace Post Filter	-	✓	-	✓



Filter Replacement Instructions

Pre-filters should be replaced every 3-6 months or as needed, post filter should be replaced every 6 months.

Before starting, shut off cold water supply to unit. Lift the handle on the faucet to drain out the storage tank completely and allow the system to stand for 10 minutes in order to fully decompress the tank, reserving some of the RO water to use to rinse the filter housings. Leave the faucet open until the filter change is complete.

- 1. Remove pre-filters from filter housings. Use a filter wrench if the housings are too tight.
- 2. Discard used filters, but save o-rings for re-use.
- 3. Clean inside of all housings with a mild soap solution, and then rinse with RO water.
- 4. If you are sanitizing the system at this time, follow the sanitization process before installing new filter cartridges.
- 5. Lubricate the o-ring and replace in filter housing.
- 6. Insert the new filters into the appropriate housings and replace the housings onto the system.
- 7. Disconnect the post-filter by removing the fittings on either end. Replace with new post-filter and re-use the existing fittings. (Feed end tee is connected by a short length of tubing, remove this and use to connect to new filter.)
- 8. Repeat the "Turning the System On for the First Time" procedure (page 13.)
- 9. Drain the first tank of water after changing the filters before drinking.

Membrane Replacement Instructions

The membrane should be replaced every 1-2 years, depending on the water quality.

Before starting, close the feed water valve. Lift the handle on the faucet to drain out the storage tank completely and allow the system to stand for 10 minutes in order to fully decompress the tank. Leave the faucet open until the membrane change is complete.

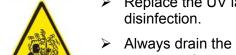
- 1. Unscrew the fitting to the cap of the membrane housing.
- 2. Using pliers, pull out the old membrane from the housing.
- 3. If you are sanitizing the system at this time, reassemble the housing and follow the sanitization process before installing new membrane.
- 4. Remove the new membrane from its bag.
- 5. Insert the membrane in the housing in the same direction as the old membrane.
- 6. Push the membrane firmly into the housing until it seats on the far end.
- 7. Screw the housing cap back on, making sure the o-ring is positioned correctly.
- 8. Screw the fitting (with tubing) back onto the housing.
- 9. Repeat the "Turning the System On for the First Time" procedure (page 13.)
- 10. Drain the first two tanks of water before drinking.

Ultraviolet (UV) System Maintenance

WARNING



- > Always disconnect power before performing any work on the disinfection system.
- Always shut-off water flow and release water pressure before servicing.
- Regularly inspect your disinfection system to ensure that the power indicators are on.

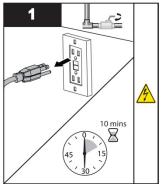


- Replace the UV lamp annually (or biennially if seasonal home use) to ensure maximum disinfection.
- Always drain the chamber when closing a seasonal home or leaving the unit in an area subject to freezing temperatures.



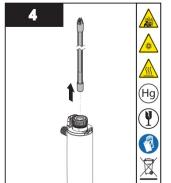
Replacing UV Lamp

UV lamps should be replaced every 12 months. The quartz sleeve can be re-used, but is very fragile. It is recommended to have a spare quartz sleeve on hand in case it is broken during the lamp change.



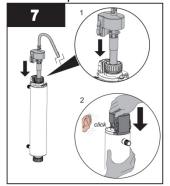
Close the system feed valve and the tank valve to cut off the water supply. Turn on the faucet to release any pressure in the lines.

Disconnect main power source and allow the unit to cool for 10 minutes



Remove the UV lamp in upward direction from the UV chamber and lamp connector base.

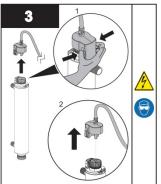
Hold the UV lamp at the ceramic ends.



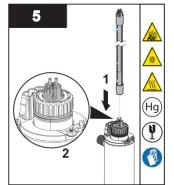
Push the lamp connector against lamp connector base together until an audible click is heard. Redommnect the inlet and outlet tubing. Restore power and repressurize the system to check for leaks.



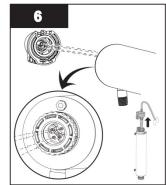
Using a small container to drain the water inside the UV and tubing remove the inlet and outlet tubing to the UV. Remove the UV from the clips on the system.



Holding the chamber vertically, remove the lamp connector by squeezing the plastic locking tabs on the side of the connector.



Insert the new UV lamp fully into the UV chamber leaving about two inches of the UV lamp protruding from the UV chamber.



Attach the connector to the UV lamp and note that the connector will only allow correct installation in one position.

NOTICE:

- Refer to www.lamprecycle.org for UV lamp disposal.
- Do not use water during replacement of UV lamp.
- As UV does not provide a chemical disinfection residual, it is imperative
 that the entire distribution system located after the UV be chemically
 disinfected to ensure that the plumbing system is free from any
 bacteriological contaminants. The disinfection process must be
 performed immediately after the UV unit is installed and repeated
 thereafter whenever the UV is shut down for service, without power, or
 inoperative for any reason.



Cleaning and Replacing Quartz Sleeve

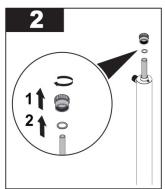
Note: Minerals in the water slowly form a coating on the quartz sleeve. This coating must be removed because it reduces the amount of UV light reaching the water, thereby reducing disinfection performance. If the sleeve cannot be cleaned, it must be replaced.

Prerequisites:

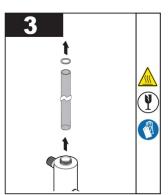
- Shut off water supply and drain the line.
- Place a small pail under the unit to catch any spills.
- Remove the UV lamp. Refer to Previous Section.



Remove the bottom retaining nut, floating spring, and Oring.



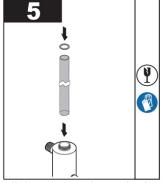
Remove the top retaining nut and Oring.



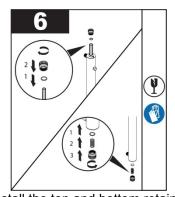
Carefully remove O-ring adhering to the sleeve. Remove the quartz sleeve.



Clean the quartz sleeve with a cloth soaked in CLR, vinegar or some other mild acid and then rinse with water.



Reinstall the quartz sleeve in the UV chamber allowing the sleeve to protrude at equal distance on both ends of the UV chamber.



Reinstall the top and bottom retaining nuts, floating spring, and O-rings respectively.

Note: If sleeve cannot be completely cleaned or it is scratched or cracked, then replace the sleeve.

Push the lamp connector against lamp connector base together until an audible click is heard.

Plug in controller and verify the POWER-ON LED display is illuminated.

Re-pressurize the system to check for leaks.

When service is complete, assemble the prerequisites in the reverse order of disassembly.

Notes:

- 1) After replacing the UV lamp or quartz sleeve, perform the disinfection procedure.
- 2) If the system is put on a temporary by-pass or if it becomes contaminated after the disinfection system, it is necessary to shock the system with household bleach for a full 20 minutes before resuming the use of the water.



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Sanitizing the RO System

We recommend sanitizing the system at least once a year or after UV system is serviced. This can be done while changing your filters. Shut down the system. If you have an icemaker hook-up installed, be sure the ball valve in the line to the refrigerator is in the closed position during this procedure*. Open the faucet to drain the system, including the tank. Remove the pre-filter cartridges and RO Membrane from the system, leaving the old post-filter cartridge in place. Wash the internal filter housing & membrane housing areas with warm soapy water and rinse well to remove the soap. Pour about ½ teaspoon of Hydrogen Peroxide or household bleach into each filter housing and replace housings on the RO system. Open the feed water valve and open the RO faucet until water flows freely from the spout. Close the faucet and hold the solution in the system for a minimum of 10 minutes.

Drain the tank completely, close the faucet to allow tank to fill again, and then drain again. Replace filters and membrane as indicated in the replacement instructions. The post filter should be changed after sanitizing the system. Repeat the "Turning the System On for the First Time" procedure (page 13.)

*Note: It is recommended to chemically disinfect the entire distribution system located after the UV. To ensure water being routed to external equipment is microbiologically safe and does not contaminate the water in the system, this equipment and leading plumbing must be disinfected according to manufacturer's instructions.

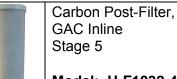
Replacement Parts

Replacement Filter Cartridges

Sediment Pre-Filter, 5 Micron. Stage 1

Model: H-F1005CF Qty. 1 Per System Replace every 3-6 months Carbon Pre-Filter, Extruded Carbon Stage 2 & 3

Model: H-F2510AC Qty. 2 Per System Replace every 3-6 months



Model: H-F1032-43QC Qty. 1 Per System

Replace every 3-6 months



Replacement Membranes & Flow Restrictors

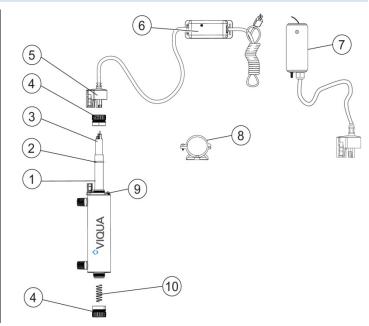
System Flow Rate	Model Number	Replacement Membrane Model	Replacement Flow Restrictor	
50 GPD	AAA-50-UV	M-T1812A50	H-R2068QC	
100 GPD	AAA-100-UV	M-T1812A100	H-R1000QC	





Replacement UV Components

Dwg.#	Part No.	Description	
1	QS-212	Quartz Sleeve	
2	410867	O-Ring for Lamp	
3	S212RL	UV Lamp, Sterliume®	
4	RN-001	Retaining Nut	
(5)	-	Lamp Connector	
6	BA-VT	Controller, N. American Voltage	
7	n/a	n/a	
8	410958-R	2.5" Mounting Brackets	
9	270276-R	Lamp Connector Base	
10	SP008	Lamp Connector Spring	



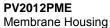
Other Replacement Components

H-H14FWW33 Filter Housing,

White



O-Ring for Filter Housing



H-S4010ANW

Storage Tank, 4.4 Gal (3.2 Gal Usable) Bladder Tank

H-J2021KW Clip - Membrane Housing to Inline Filter

H-J2025PW Membrane Housing Clip



H-T5019

Faucet, Non-Airgap,



Shut-Off Valve, QC Connection

Tank Shut-Off Valve

H-D3000M Drain Saddle

H-V1003

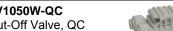
Check Valve, in elbow fitting (membrane reject)

H-C9200

H-B2044W

Filter Bracket

Long- Reach, Chrome



PPSV500822W



Filter Wrench

H-V1009

Chrome Feed Valve Adapter Kit



PN-4-P

1/4" Hex Nipple (connects filter housings)



CI0208W

1/4"Union Tee Fitting (for feed end of post filter)



PI220808S

1/4"Stem Elbow Fitting (for filtrate end of post filter)



PI480821S

1/4"Tx 1/8"M Elbow Fitting For Membrane Housing (Membrane Housing)





Troubleshooting Chart

Symptom	Possible Cause	Remedy	
No water in the storage tank	Filter Cartridges have failed.	Replace filter cartridges as indicated in maintenance section.	
	Cartridges are out of sequence.	Install cartridges in proper sequence as indicated in system components.	
	Cartridges are upside-down.	Install carbon block filter right-side-up as indicated on the filter.	
	No pressure in storage tank.	Completely empty the tank of water. Check pressure with gauge. Refill or reduce pressure to max 8 psi.	
	Automatic shut-off valve malfunctioning.	Check lines to valve for correct hook-up and check water running into the drain. Replace if necessary.	
	Kinked lines.	Straighten lines if necessary.	
	Brine check valve failure.	Close the faucet and feed valves. Open the tank valve. If water flow down the drain is detected, replace the check valve.	
	Brine flow restrictor failure.	Replace if necessary.	
Getting low flow	Incoming water pressure too low.	Check source of feedwater (city water, well water, etc.) for pressure. A booster pump may be required.	
	Change in feedwater temperature.	The reverse osmosis membrane used in your unit is rated at 77°F and 60psi. Water production will decrease approximately 1.5% for each degree that your incoming water is below 77°F. It may be necessary to change to a higher flow membrane (and flow restrictor).	
	Storage tank pressure is too low.	Completely empty the tank of water. Check pressure with gauge and refill to maximum 8 psi.	
	Filters are clogged.	Replace Filters.	
Water leakage at filter bowls	Filter bowls are loose.	Retighten.	
	Burr on edge of filter bowl.	Remove burr with emery cloth or sand paper.	
	O-Ring in filter bowls is missing, damaged, or not sealed properly	Replace or position correctly.	
	Filter Cartridge is crooked.	Re-seat the filter cartridge.	
Water backing up to air gap in	Line is clogged.	Clean out the line.	
faucet (Systems w/ air gap faucets only)	Line is too long.	Must be as short and straight as possible.	
Tadoo omy,	Drain line is clogged.	Disconnect 3/8" dia. Line and clean out with probe or by flushing.	
Faucet spout is dripping	Handle sticking or worn.	Replace the faucet	
Milky colored water	Air in the system	Air in the system is normal after startup of the RO. Water should lose the milky look within a few days of normal usage.	
Warm Water	Water Standing in UV System	When there is no flow, the water in the cell will become warm, as the UV lamp is always on. Simply run the faucet until water coming out is cool.	



PRODUCT WARRANTY

■ SELLER hereby warrants to CUSTOMER that the goods herein described will be free from any liens or encumbrances, that good title to said goods will be conveyed to CUSTOMER by sale of same.

SELLER warrants materials of its own manufacture against defects in material and workmanship under normal conditions of usage and service as specified in this manual for one year from whichever of the following events occur first:

- First use of the system
- Three (3) months following date of shipment from Vista.

Materials not manufactured by SELLER receive only such warranty, if any, of the manufacturer thereof and which are hereby assigned to CUSTOMER without recourse to SELLER.

SELLER'S obligation under this warranty is limited to and shall be fully discharged by repairing or replacing any defective part FOB its works. SELLER shall not be liable for repair or alterations made without SELLER'S prior written approval; for membrane elements becoming plugged by suspended matter, precipitates, or biological growth; or for failure to properly maintain the element. SELLER shall not be liable for damages or delay caused by defective material. Products returned to SELLER for warranty examination must be shipped freight prepaid.

- SELLER'S Liability. SELLER SHALL NOT BE LIABLE FOR PROSPECTIVE PROFITS OR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, NOR SHALL RECOVERY OF ANY KIND AGAINST SELLER BE GREATER IN AMOUNT THAT THE PURCHASE PRICE OF THE SPECIFIC GOODS SOLD AND CAUSING THE ALLEGED DAMAGE, WHETHER SUCH CLAIM BE BASED ON CONTRACT OR TORT; provided, however, the aforesaid to the contrary notwithstanding, SELLER shall not be liable for any bodily injuries or property damage directly caused by its willful, wanton or negligent acts.
- All Other Warranties and Damages. THERE ARE NO WARRANTIES ESTABLISHED, EXPRESS OR IMPLIED OR STATURTORY, INCLUDING THE WARRANTY OF MERCHANTABILITY, EXCEPT THOSE SET FORTH ABOVE OR ANY PERFORMANCE WARRANTY WHICH IS ATTACHED TO THIS ORDER.
- Permits, Ordinances and Code Compliance. CUSTOMER has full responsibility for obtaining any licenses, permits and inspections required with respect to installation and use of the goods herein described.
- Governing Law. Any agreement based upon this Order and the obligations thereby imposed on SELLER and CUSTOMER shall be governed by and construed according to the laws of the State of California.