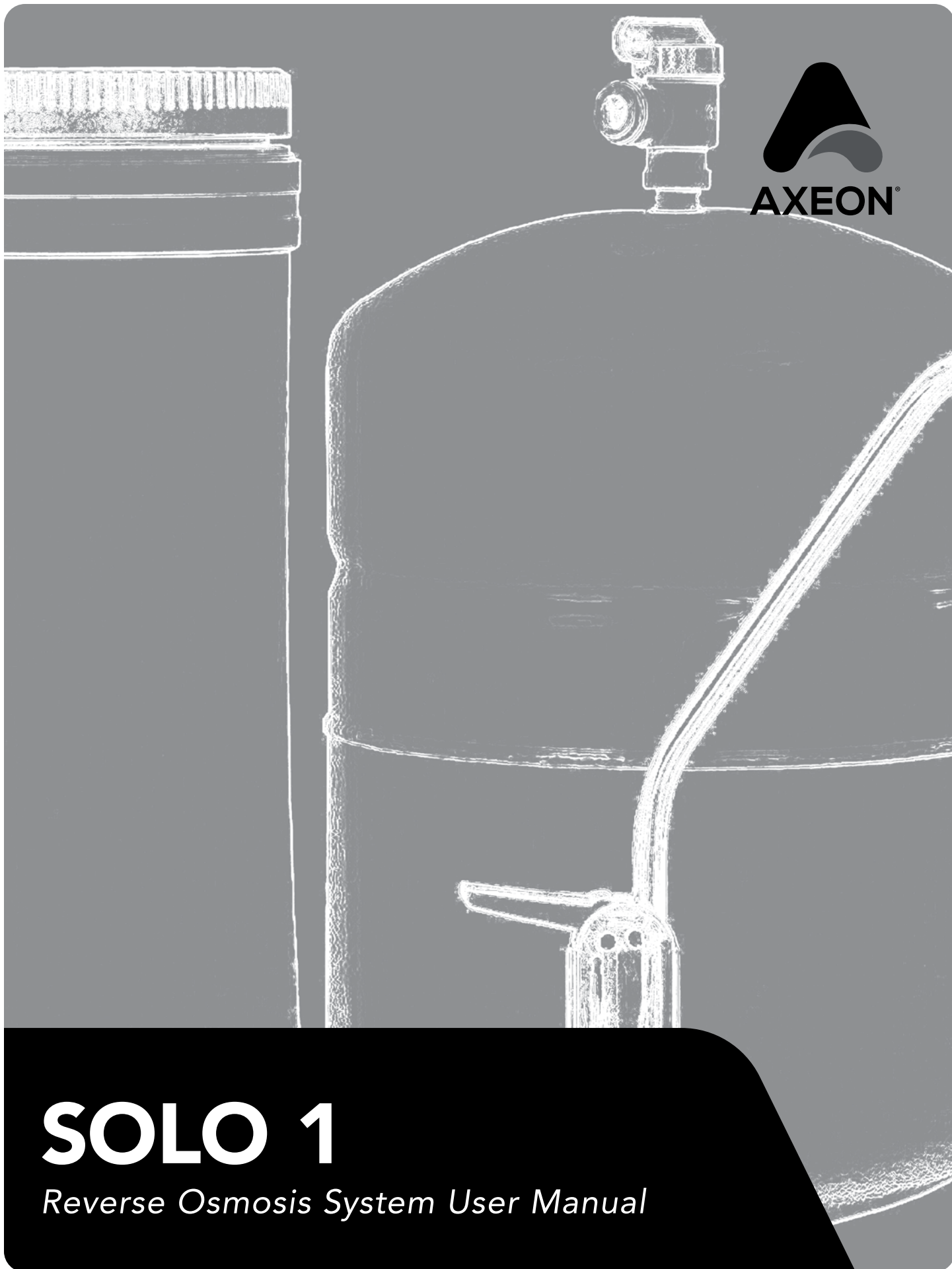




SOLO 1

Reverse Osmosis System User Manual

TABLE OF CONTENTS

Safety	1
Operating Limits	2
Operating Do's and Don'ts	2
System Specification Chart	3
Component Identification	4
Pre-filtration	5
Post-filtration	5
Component Descriptions	5
Membrane Information	6
Membrane Warranty	7
System Installation	8-11
Membrane Installation and Handling	12-13
Temperature Correction Factors	14
Temperature Correction Table	15
Troubleshooting	16
System Warranty	17-18



The Solo 1 Reverse Osmosis System

is a durable piece of equipment which, with proper care, will last for many years.

This User Manual outlines general installation, operation and troubleshooting details vital to the sustained performance of your system. If your system is altered at the site of operation, or if the feed water conditions change, please contact your local dealer to determine the proper recovery for your application.

PLEASE NOTE

- Do not under any circumstance remove any caution, warning, or other descriptive labels from the system.
- Prior to operating or servicing the reverse osmosis system, this user's manual must be read and fully understood. Keep this and other associated information near the system for future reference.



SAFETY

The Safety section of this User Manual outlines the various safety headings used throughout this manual's text and are enhanced and defined below:

Warning Labels

	Warning: Indicates statements that are used to identify conditions or practices that could result in injury or loss of life. Failure to follow warnings could result in serious injury or even death.
	Caution: Indicates statements that are used to identify conditions or practices that could result in equipment or other property damage.

STATEMENTS IN BOLD AND ALL CAPITALS ARE ADVISORY OR INFORMATIONAL STATEMENTS OF PARTICULAR IMPORTANCE TO THE HEADING UNDER WHICH THEY ARE FOUND.

Precautions

	Do not use where the water is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
	Always shut off the feedwater, and relieve pressure before working on the unit.
	Never allow the unit to freeze or operate with a feedwater temperature above 85°F.
	Do not permit chlorine to be present in the feedwater.

OPERATING LIMITS

Nothing has a greater effect on a reverse osmosis system than the feed water quality. If the feed water conditions change, please contact your local dealer or distributor. Before starting the RO system it is strongly suggested to obtain an up to date water analysis of the water to be treated.



It is very important to meet the minimum feed water and operating requirements outlined in this manual. Failure to do so will cause damage or failure of the system components and membranes. Damage to the system due to operation outside of the specifications outlined in this manual will void the manufacturers warranty. Check your feed water chemistry and, if necessary, consult with your local dealer or distributor before start up of the system.

OPERATING LIMITS^A

Design Temperature (°F)	77
Maximum Feed Temperature (°F)	85
Minimum Feed Temperature (°F)^B	40
Maximum Ambient Temperature (°F)	120
Minimum Ambient Temperature (°F)	40
Maximum Feed Pressure (psi)	80
Minimum Feed Pressure (psi)	40
Maximum SDI Rating	< 5
Maximum Turbidity (NTU)	< 1
Maximum Free Chlorine (ppm)	< 0.1
Maximum TDS (ppm)^B	1,000
Maximum Hardness (gpg)	0
Maximum pH (continuous)	8
Minimum pH (continuous)	4



Higher TDS and/or lower temperatures will reduce the system's production.



Do not exceed the maximum operating pressure.

OPERATING DO'S AND DON'TS

Do:

- Change the filter regularly.
- Run the system as much as possible on a continuous basis.

Don't:

- Permit chlorine to enter or be present in the feedwater.
- Shut down the system for extended periods.
- Operate the system with insufficient feed flow or pressure.

A. If any of the feedwater parameters are not within the limits given, consult your local dealer or distributor for assistance.

B. Low temperatures and feedwater quality, such as high TDS levels, will significantly affect the systems production capabilities and performance. Computer projections must be run for individual applications which do not meet or exceed minimum and maximum operating limits for such conditions.

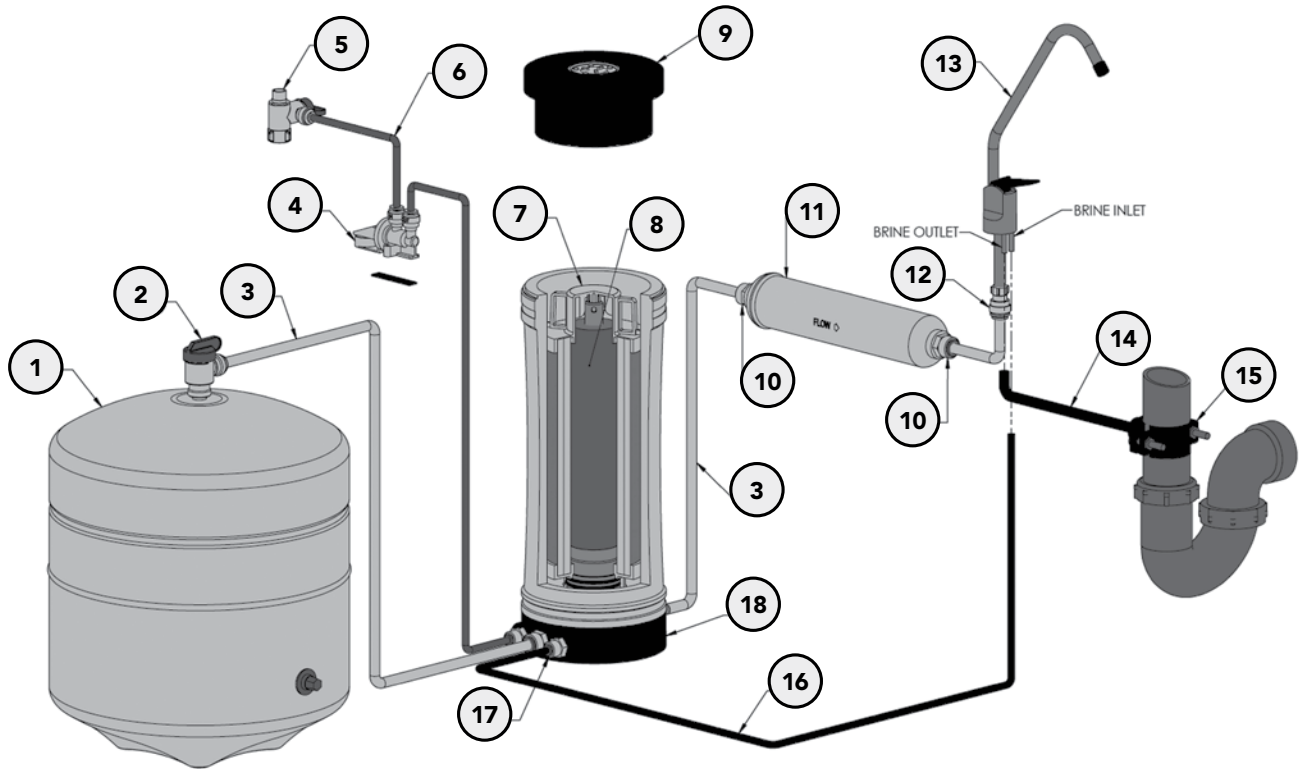
SYSTEM SPECIFICATION CHART

MODELS	SOLO 1
Flow Rates^C	
Permeate Flow Rate (gpd / lpd)	50 / 189
Feedwater TDS Max (ppm)	1,000
Product to Waste Ratio	1:2
Connections	
Feed (in)	1/4 QC
Permeate (in)	3/8 QC
Concentrate (in)	1/4 QC
Membranes	
Membrane Quantity	1
Membrane Size	1812
Nominal TDS Rejection %	96
System Dimensions	
Approximate Dimensions L x W x H (in / cm)	16.5 x 11 x 15 / 41.91 x 27.94 x 38.10
Approximate Weight (lbs / kg)	15 / 7

C. Product flow and maximum recovery rates are based on feedwater conditions as stated above. Do not exceed recommended permeate flow.

Warranty Evaluation Test Conditions: Permeate flow rates and salt rejection based on the following test conditions: 550 ppm, filtered and dechlorinated municipal tap water, 77°F / 25°C, 15% recovery, 7.0 pH and the specified operating pressure for membrane element type. Data taken after 60 minutes of operation.

COMPONENT IDENTIFICATION



ITEM #	PART #	DESCRIPTION
1	200931	Permeate Storage Tank (3.2 Gallon Capacity)
2	211623	Permeate Storage Tank Valve (3/8" Quick Connect)
3	201026	Product Water Line to Tank and Faucet (3/8" White Tubing)
4	207797	1/4" Quick Connect Leak Detector
5	211478	1/4" Quick Connect Feed Water Adaptor (For 3/8" Water Supply Line)
6	211663	Feed Water Line (1/4" Blue Tubing)
7	211477	5-Micron Sediment and Sintered Carbon Block Pre-Filter
8	211479	Solo 1 Reverse Osmosis Membrane Element (50 GPD)
9	211745	Solo 1 Reverse Osmosis System Lid
10	211481	3/8" Quick Connect X 1/4" MNPT Male Connector
11	200654	Inline Granulated Activated Carbon Post Filter
12	211482	3/8" Quick Connect Faucet Adaptor
13	207786	Chrome Faucet with Air Gap Connection
14	201028	Air Gap Drain Line (3/8" Black Tubing)
15	211622	3/8" Quick Connect Drain Saddle
16	201018	System Drain Line from System to Air Gap (1/4" Black Tubing)
17	200988	Concentrate Flow Restrictor (Installed into End of Tubing)
18	211456	Solo 1 Reverse Osmosis System

PRE-FILTRATION

Solo 1 systems are supplied with an integrated 5-micron polypropylene sediment and sintered carbon filter (item 7, pg. 4). Change the filtration cartridge every 6 months.



The system must be operated on municipal tap water only.



POST-FILTRATION

Solo 1 systems are supplied with an in-line granulated activated carbon post filter (item 11, pg. 4). Change the filtration cartridge every 6-12 months.



COMPONENT DESCRIPTIONS



Tubing Kit

Tubing is provided for creating process connections.

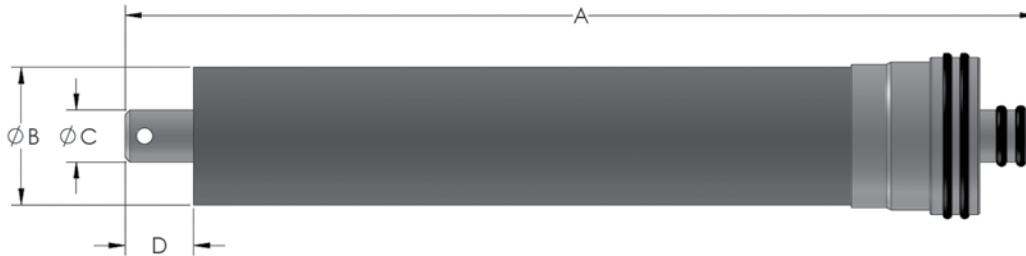


Permeate Storage

Solo 1 systems are supplied with a bladder storage tank (item 1, pg. 4). Tank storage capacity is dependent on feed pressure and tank pressure. Typical usable capacity ranges from 2.4-3.2 gallons. Ensure the tank pressure is kept around 7 psi, do not exceed 10 psi.

MEMBRANE INFORMATION

Solo 1 reverse osmosis systems come packaged with a proprietary Solo-Series Residential Membrane. General membrane element performance characteristics are listed on the following membrane specification chart.



SOLO-SERIES RESIDENTIAL MEMBRANE (PROPRIETARY)—SPECIFICATIONS/OPERATING LIMITS

Membrane Type	Polyamide Thin-Film Composite
Maximum Operating Temperature (°F / °C)	113 / 45
Maximum Operating Pressure (psi / bar)	85 / 5.86
pH Range (Continuous Operation)	3-10
pH Range (Short Term Cleaning—30 Min.)	2-12
Maximum Feed Silt Density Index (SDI)	5
Chlorine Tolerance (ppm)	0

PRODUCT SPECIFICATIONS				DIMENSIONS (IN / MM)			
Part #	Description	Applied Pressure (psi / bar)	Permeate Flow Rate (gpd / lpd)	A	B	C	D
211479	SOLO-1812-50	60 / 4.13	50 / 189.30	11.73 / 298	1.69 / 43	0.67 / 17	0.85 / 23.6

Warranty Evaluation Test Conditions: Permeate flow and salt rejection based on the following test conditions: 550 ppm, filtered and dechlorinated municipal tap water, 77 °F / 25 °C, 15% recovery and the specified operating pressure. Minimum salt rejection is 96%. Permeate flows for warranty evaluation may vary +/-20%. Maximum pressure drop at 10 psig / 0.69 bar.

MEMBRANE WARRANTY

Proper start-up of reverse osmosis water treatment systems is essential to prepare the membranes for operating service and to prevent membrane damage due to overfeeding or hydraulic shock. Before initiating system start-up procedures, membrane pretreatment, loading of the membrane elements, instrument calibration and other system checks should be completed.

Avoid any abrupt pressure or cross-flow variations on the spiral elements during start-up, shutdown, cleaning or other sequences to prevent possible membrane damage. During start-up, a gradual change from a standstill to operating state is recommended as follows:

Under certain conditions, the presence of free chlorine, chloramines and other oxidizing agents will cause premature membrane failure. Since oxidation damage is not covered under warranty, the manufacturer recommends removing all oxidizing agents by pretreatment prior to membrane exposure. Please contact the manufacturer or your supplier for more information.

It is recommended that systems using these elements rinse the elements for 24 hours, prior to first use, to meet NSF/ ANSI 58 Standard. The first full tank of permeate must be discarded. Do not use this initial permeate for drinking water or food preparation. Keep elements moist at all times after initial wetting. To prevent biological growth during prolonged system shutdowns, it is recommended that membrane elements be immersed in a preservative solution. Rinse out the preservative before use. For membrane warranty details, please contact the manufacturer or your supplier for more information.

If operating limits and guidelines given in this product specification sheet are not strictly followed, the warranty will be null and void. The customer is fully responsible for the effects of incompatible chemicals and lubricants on elements. Use of any such chemicals or lubricants will void the warranty. These membranes may be subject to drinking water application restrictions in some countries: please check the application status before use and sale. The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete System design and on the operation and maintenance of the system.

No freedom from infringement of any patent owned by the manufacturer or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, customer is responsible for determining whether products and the information in this document are appropriate for customer's use and for ensuring that customer's workplace and disposal practices are in compliance with applicable laws and other governmental enactments. The claims made may not have been approved for use in all countries. The manufacturer assumes no obligation or liability for the information in this document. AXEON reserves the right to update this information periodically for the purposes of quality and accuracy.

NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

SYSTEM INSTALLATION

Mounting

When choosing a location to install the system, select an area with enough room for service to be performed on the system. Do not install system in direct sunlight or subject the system to temperature extremes and/or excess humidity. Use a tube cutter for cutting the supplied tubing. These can be found in your local hardware store.

Tools and Materials Required for Installation

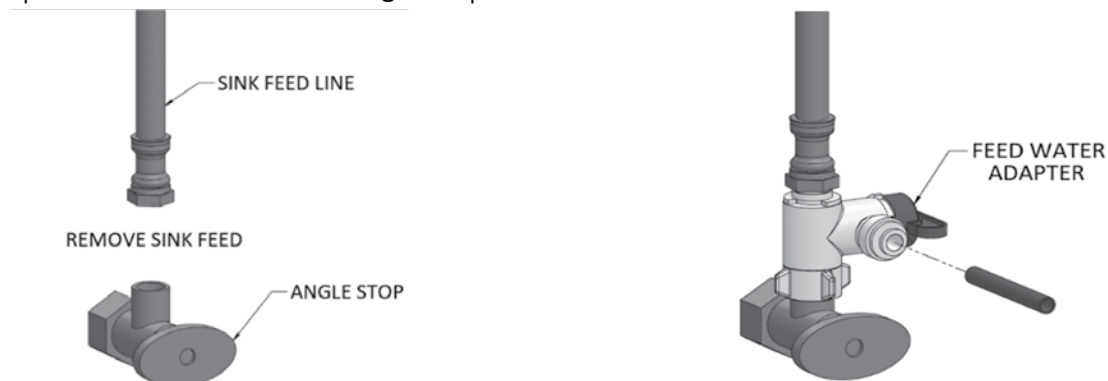
- Variable speed drill
- Carbide grinding burr or file
- 1/4" drill bit (for making pilot holes)
- Tubing cutter
- 3/8" drill bit
- 7/8" hole saw, or porcelain saw
- Adjustable wrench
- Tape measure
- Phillips screwdriver
- Teflon tape
- Protective eyewear
- Dow corning 111 lubricant

The above tools and materials are available in any local hardware stores. If you are uncomfortable performing the installation please contact a local dealer or distributor for installation services.

Feed Water Connection

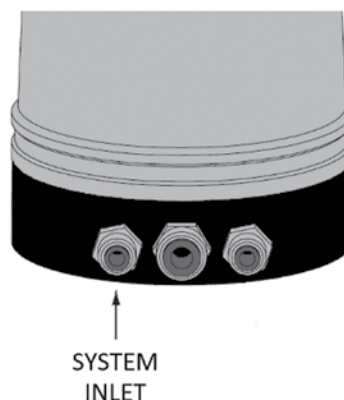
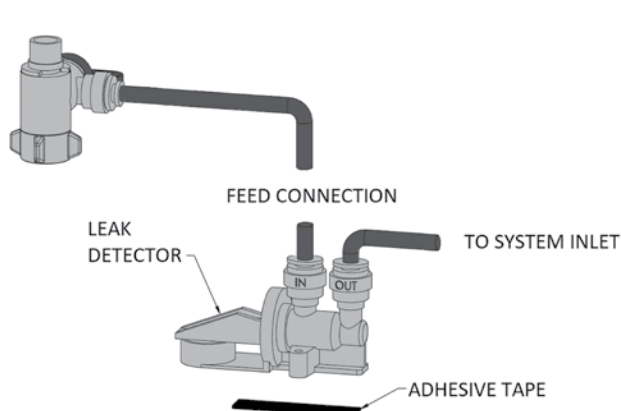
BEFORE BEGINNING THE INSTALLATION, PLAN OUT HOW THE SYSTEM IS TO BE PLACED UNDERNEATH THE SINK OR COUNTERTOP. THIS WILL HELP IN PLANNING WHAT LENGTHS OF TUBING TO USE FOR SYSTEM CONNECTIONS.

1. Locate the cold-water angle stop valve underneath the sink and turn it off.
2. Relieve the pressure by opening the cold-water line and disconnect the sink feed line.
3. Install the feedwater adapter (item 5, pg. 4) to the angle stop valve.
4. Insert the blue feed line tubing (item 6, pg. 4) into quick connect port of feedwater adapter.
5. Connect the sink feed line to the feedwater adapter. Make sure the feedwater adapter is in the closed position and turn on the angle stop valve.



6. Connect the blue tubing to the inlet of the leak detector (item 4, pg. 4). Connect a section of tubing from the leak detector outlet to the system (item 18, pg. 4) inlet.
7. Use the provided double sided tape to attach the leak detector near the base of the system. Unwrap the provided compressed cloth and insert into the leak detector. Close the leak detector.

System Installation (Cont.)

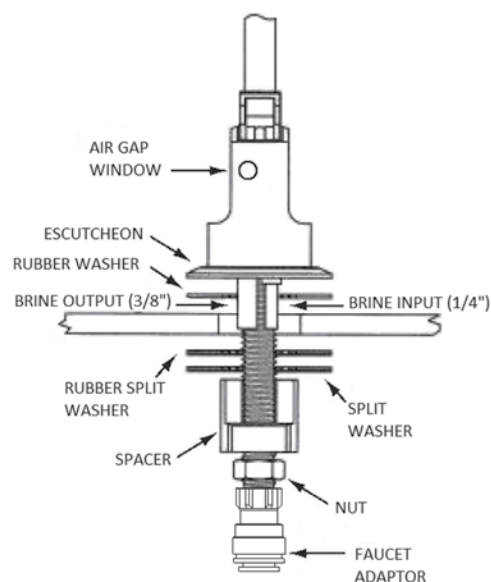


Faucet Installation



Installation of this faucet requires a 7/8" opening in the sink or countertop. Extreme care must be taken in drilling the hole for the faucet. The surface of most sinks is extremely hard and brittle and can easily be chipped or cracked. If you are uncomfortable performing this procedure, please contact your local distributor for installation assistance.

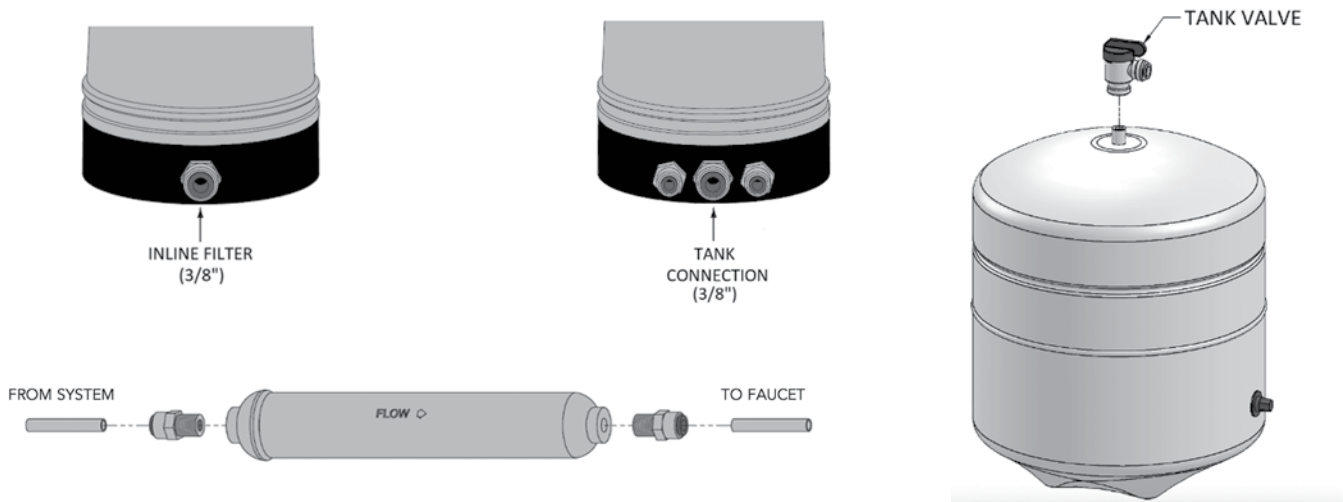
1. Locate the faucet (item 13, pg. 4) and remove the contents from the packaging.
2. Place the trim plate (escutcheon) over the faucet shank followed by the rubber washer.
3. Insert the faucet shank through the provided hole with only the hardware described in the previous steps.
4. From underneath the sink, slide the plastic spacer into the shank of the faucet and start the nut. Tighten until there is still enough room to slide the rubber and metal split washers between the spacer and the underside of the sink. Please note that the spacer has a flat spot in order to clear the barbs for the air gap drain.
5. Slide the rubber and metal split washers onto the shank. Ensure the rubber split washer is in contact with the underneath surface of the sink or countertop.
6. Tighten the nut.
7. Locate the faucet adapter (item 12, pg. 4) and thread it on to the faucet shank hand tight. Once hand tight, tighten and additional 1/4 turn.



System Installation (Cont.)

Permeate (Product Water) Connection

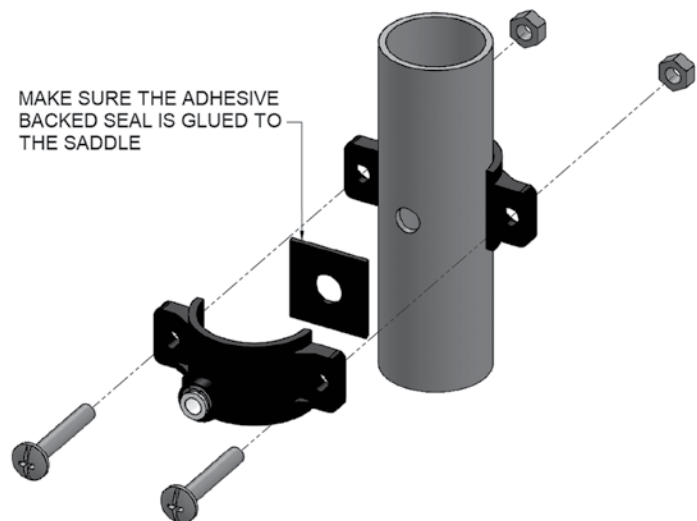
1. Apply 3-4 wraps of Teflon tape to the threads of both 3/8" fittings (item 10, pg. 4) and install onto the inline filter.
2. Cut a section of white 3/8" tubing (item 3, pg. 4) approximately 18 to 36 inches and connect the water filter to the system inline filter connection. Use the remaining 3/8" tubing to connect the inline filter (item 11, pg. 4) to the faucet (item 13, pg. 4) using the faucet adapter (item 12, pg. 4).



3. Apply 6-8 wraps of Teflon tape to the threaded stem on the top of the tank (item 1, pg. 4). Install tank valve (item 2, pg. 4) to the top of the tank. This only needs to be installed hand tight. Connect the tank valve to the system tank connection.
4. Use the provided white 3/8" tubing.

Drain Saddle Installation

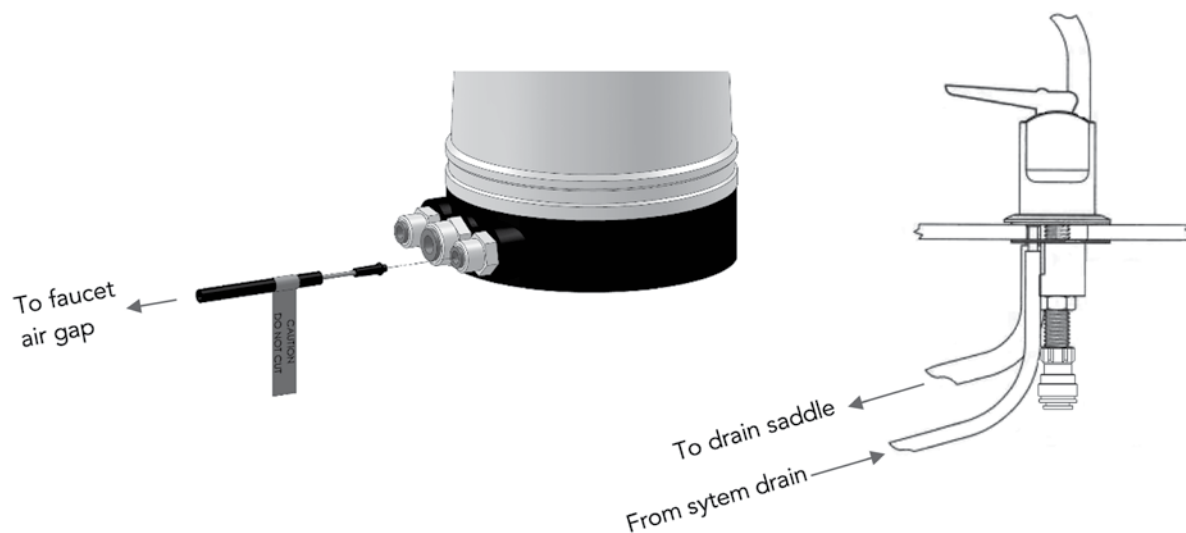
1. Obtain the drain saddle assembly (item 15, pg. 4). Put the adhesive backed foam on the inside of the connection point of the drain saddle. Ensure the holes are aligned. Position the drain saddle on the sink drainpipe between the sink drain and the P trap.
2. Once in position, mark where the hole is to be drilled. Remove the drain saddle and drill the 3/8" hole into the drainpipe.
3. Align the drain saddle with the hole and secure it with the provided bolts.



System Installation (Cont.)

Air Gap Connection

1. Insert the 3/8" drain line (item 14, pg. 4) into the drain saddle and press the other end onto the large (brine outlet) barb on the faucet air gap. Ensure there are no dips or low points in the tubing from the faucet to the drain saddle. Trim accordingly.
2. Obtain the black 1/4" tubing (item 16, pg. 4) and measure the length required to connect the system outlet to the brine inlet on the faucet air gap.
3. Install the provided capillary flow restrictor (item 17, pg. 4) into the open end of the tubing.
4. Firmly press the tubing into the drain port of the system. Press the opposite end onto the brine inlet of the faucet air gap.



Any restrictions or blockage in the drain line can cause backpressure, which will increase the system's operating pressure. This can result in damage to the system's membranes and components.

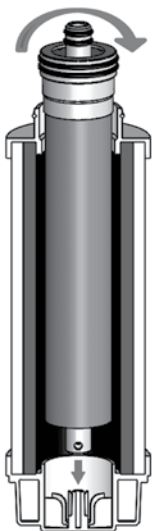
MEMBRANE INSTALLATION AND HANDLING

Membrane Installation/Replacement



Feedwater adapter valve must be in the closed position before replacing the membrane element.

1. Use the provided wrench to remove the black top cap (item 9, pg. 4) to the system. Remove the 2-stage filter (item 7, pg. 4) from the system and remove the plastic film wrap.
2. Obtain the membrane (item 8, pg. 4) and remove it from its packaging.
3. Apply a thin layer of lubricant on all of the membrane o-rings. If DOW Corning 111 is unavailable, please use an NSF 51/61 certified lubricant.
4. Insert the membrane down into the filter cartridge while twisting (o-rings up as shown). Ensure the membrane is fully inserted into the filter.
5. Place the filter and membrane into the system base.
6. Replace the system cap and tighten with the provided wrench.
7. Once installed, use the calendar wheel on the cap to note the date of installation. This will help identify when it is time to replace the filter and membrane.



Membrane Inserted Completely



Membrane Installation and Handling (Cont.)



Carefully inspect your system before initial start up. Check that all the plumbing connections are in place and securely fastened. Ensure that there are no kinks or twists in the lines.

- 1.** Double check that all connections are made and the tubing is in securely.
- 2.** Make sure the tank valve is open.
- 3.** Make sure the lever on the leak detector is in the down position.
- 4.** Flip the faucet lever up to allow for continuous flow.
- 5.** Slowly turn on the feed valve 1/4 turn, observe for any leaks.
- 6.** If no leaks are present, fully open the feed valve.
- 7.** Continue to check for any leaks.
- 8.** Allow the system to drain the permeate for the first hour of operation.
- 9.** Please allow for the tank to fill 3-4 times before drinking the product water.
- 10.** After completely draining the tank 3-4 times you may begin to use the water for consumption.

TEMPERATURE CORRECTION FACTORS

A membrane's stated permeate production rate is based on a water temperature of 77°F degrees Fahrenheit. Temperatures above or below 77°F will increase or decrease the membrane's production rate.

Find the temperature correction factor (TCF) for your water temperature on the table located on the next page. Divide the rated permeate flow by the temperature correction factor. The result is the nominal permeate flow rate the system should achieve at actual water temperature. Permeate flow should be within 20% of the rated production, after correcting the feed water temperatures above or below 77°F. Check your permeate flow meter to determine the permeate flow rate.

EXAMPLE

5 GPM at 59 °F

→

$$\frac{5 \text{ GPM}}{1.422}$$

=

3.52 GPM

EXAMPLE

5 GPM at 77 °F

→

$$\frac{5 \text{ GPM}}{1}$$

=

5 GPM

EXAMPLE

5 GPM at 84 °F

→

$$\frac{5 \text{ GPM}}{.892}$$

=

5.62 GPM



TEMPERATURE CORRECTION TABLE

Temp °F (°C)	TCF	Temp °F (°C)	TCF	Temp °F (°C)	TCF	Temp °F (°C)	TCF	Temp °F (°C)	TCF
50.0 (10.0)	1.711	57.2 (14.0)	1.475	64.4 (18.0)	1.276	71.6 (22.0)	1.109	78.8 (26.0)	0.971
50.2 (10.1)	1.705	57.4 (14.1)	1.469	64.6 (18.1)	1.272	71.8 (22.1)	1.105	79.0 (26.1)	0.968
50.4 (10.2)	1.698	57.6 (14.2)	1.464	64.8 (18.2)	1.267	72.0 (22.2)	1.101	79.2 (26.2)	0.965
50.5 (10.3)	1.692	57.7 (14.3)	1.459	64.9 (18.3)	1.262	72.1 (22.3)	1.097	79.3 (26.3)	0.962
50.7 (10.4)	1.686	57.9 (14.4)	1.453	65.1 (18.4)	1.258	72.3 (22.4)	1.093	79.5 (26.4)	0.959
50.9 (10.5)	1.679	58.1 (14.5)	1.448	65.3 (18.5)	1.254	72.5 (22.5)	1.090	79.7 (26.5)	0.957
51.1 (10.6)	1.673	58.3 (14.6)	1.443	65.5 (18.6)	1.249	72.7 (22.6)	1.086	79.9 (26.6)	0.954
51.3 (10.7)	1.667	58.5 (14.7)	1.437	65.7 (18.7)	1.245	72.9 (22.7)	1.082	80.1 (26.7)	0.951
51.4 (10.8)	1.660	58.6 (14.8)	1.432	65.8 (18.8)	1.240	73.0 (22.8)	1.078	80.2 (26.8)	0.948
51.6 (10.9)	1.654	58.8 (14.9)	1.427	66.0 (18.9)	1.236	73.2 (22.9)	1.075	80.4 (26.9)	0.945
51.8 (11.0)	1.648	59.0 (15.0)	1.422	66.2 (19.0)	1.232	73.4 (23.0)	1.071	80.6 (27.0)	0.943
52.0 (11.1)	1.642	59.2 (15.1)	1.417	66.4 (19.1)	1.227	73.6 (23.1)	1.067	80.8 (27.1)	0.940
52.2 (11.2)	1.636	59.4 (15.2)	1.411	66.6 (19.2)	1.223	73.8 (23.2)	1.064	81.0 (27.2)	0.937
52.3 (11.3)	1.630	59.5 (15.3)	1.406	66.7 (19.3)	1.219	73.9 (23.3)	1.060	81.1 (27.3)	0.934
52.5 (11.4)	1.624	59.7 (15.4)	1.401	66.9 (19.4)	1.214	74.1 (23.4)	1.056	81.3 (27.4)	0.932
52.7 (11.5)	1.618	59.9 (15.5)	1.396	67.1 (19.5)	1.210	74.3 (23.5)	1.053	81.5 (27.5)	0.929
52.9 (11.6)	1.611	60.1 (15.6)	1.391	67.3 (19.6)	1.206	74.5 (23.6)	1.049	81.7 (27.6)	0.926
53.1 (11.7)	1.605	60.3 (15.7)	1.386	67.5 (19.7)	1.201	74.7 (23.7)	1.045	81.9 (27.7)	0.924
53.2 (11.8)	1.600	60.4 (15.8)	1.381	67.6 (19.8)	1.197	74.8 (23.8)	1.042	82.0 (27.8)	0.921
53.4 (11.9)	1.594	60.6 (15.9)	1.376	67.8 (19.9)	1.193	75.0 (23.9)	1.038	82.2 (27.9)	0.918
53.6 (12.0)	1.588	60.8 (16.0)	1.371	68.0 (20.0)	1.189	75.2 (24.0)	1.035	82.4 (28.0)	0.915
53.8 (12.1)	1.582	61.0 (16.1)	1.366	68.2 (20.1)	1.185	75.4 (24.1)	1.031	82.6 (28.1)	0.913
54.0 (12.2)	1.576	61.2 (16.2)	1.361	68.4 (20.2)	1.180	75.6 (24.2)	1.028	82.8 (28.2)	0.910
54.1 (12.3)	1.570	61.3 (16.3)	1.356	68.5 (20.3)	1.176	75.7 (24.3)	1.024	82.9 (28.3)	0.908
54.3 (12.4)	1.564	61.5 (16.4)	1.351	68.7 (20.4)	1.172	75.9 (24.4)	1.021	83.1 (28.4)	0.905
54.5 (12.5)	1.558	61.7 (16.5)	1.347	68.9 (20.5)	1.168	76.1 (24.5)	1.017	83.3 (28.5)	0.902
54.7 (12.6)	1.553	61.9 (16.6)	1.342	69.1 (20.6)	1.164	76.3 (24.6)	1.014	83.5 (28.6)	0.900
54.9 (12.7)	1.547	62.1 (16.7)	1.337	69.3 (20.7)	1.160	76.5 (24.7)	1.010	83.7 (28.7)	0.897
55.0 (12.8)	1.541	62.2 (16.8)	1.332	69.4 (20.8)	1.156	76.6 (24.8)	1.007	83.8 (28.8)	0.894
55.2 (12.9)	1.536	62.4 (16.9)	1.327	69.6 (20.9)	1.152	76.8 (24.9)	1.003	84.0 (28.9)	0.892
55.4 (13.0)	1.530	62.6 (17.0)	1.323	69.8 (21.0)	1.148	77.0 (25.0)	1.000	84.2 (29.0)	0.889
55.6 (13.1)	1.524	62.8 (17.1)	1.318	70.0 (21.1)	1.144	77.2 (25.1)	0.997	84.4 (29.1)	0.887
55.8 (13.2)	1.519	63.0 (17.2)	1.313	70.2 (21.2)	1.140	77.4 (25.2)	0.994	84.6 (29.2)	0.884
55.9 (13.3)	1.513	63.1 (17.3)	1.308	70.3 (21.3)	1.136	77.5 (25.3)	0.991	84.7 (29.3)	0.882
56.1 (13.4)	1.508	63.3 (17.4)	1.304	70.5 (21.4)	1.132	77.7 (25.4)	0.988	84.9 (29.4)	0.879
56.3 (13.5)	1.502	63.5 (17.5)	1.299	70.7 (21.5)	1.128	77.9 (25.5)	0.985	85.1 (29.5)	0.877
56.5 (13.6)	1.496	63.7 (17.6)	1.294	70.9 (21.6)	1.124	78.1 (25.6)	0.982	85.3 (29.6)	0.874
56.7 (13.7)	1.491	63.9 (17.7)	1.290	71.1 (21.7)	1.120	78.3 (25.7)	0.979	85.5 (29.7)	0.871
56.8 (13.8)	1.486	64.0 (17.8)	1.285	71.2 (21.8)	1.116	78.4 (25.8)	0.977	85.6 (29.8)	0.869
57.0 (13.9)	1.480	64.2 (17.9)	1.281	71.4 (21.9)	1.112	78.6 (25.9)	0.974	85.8 (29.9)	0.866

$$^{\circ}\text{F}=(^{\circ}\text{C} \times 9/5) + 32$$

$$\text{Corrected Flow Rate} = (\text{Measured Flow Rate}) * (\text{TCF @ Feed Water Temp.})$$

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
Not producing water	Feed valve is closed	→ Open the feed valve
	Leak detector has engaged	→ Inspect for leaks. If a leak is present, determine the location of the leak and repair as needed. Replace the textile in the leak detector with a new one. If no leak is present, close the lever on the leak detector.
	Solenoid valve malfunction	→ Inspect and re-install filter cartridge
	Leaks	→ Confirm the connection points to match the diagram
	Kinked tubing	→ Replace the kinked section of tubing
Low permeate flow (from faucet)	Tank air pressure is low	→ Ensure pressure is approximately 7 psi. Do not exceed 10 psi
	Tank valve not fully open	→ Open tank valve fully
	Line to faucet is kinked	→ Replace the kinked section of tubing
Tank filling slowly	Low feed pressure	→ Confirm feed pressure and adjust regulator as needed
	Feed valve not fully open	→ Fully open the feed valve
	Kinked tubing	→ Replace the kinked section of tubing
	Exhausted filter and/or membrane	→ Replace filter/membrane as needed
Poor permeate quality	Insufficient flushing of tank/membrane	→ Flush tank with 2-3 fills of permeate water
	Membrane/filter cartridge exhausted	→ Replace membrane/filter
Leaking fittings and tubing connections	Tubing not pressed into fitting securely	→ Remove tubing and re-insert ensuring the tubing bottoms out
	Insufficient Teflon tape	→ Remove existing Teflon tape and reapply with an additional wrap
	Improper installation of Teflon tape	→ Remove Teflon tape. Ensure to wrap in a clockwise rotation
	Poorly cut or gouged tubing	→ Remove tubing from fitting. Check to see that the tubing was cut perpendicular and that there are no scratches on the tubing. If the tubing was not cut properly or scratched, make a new cut approximately 1/2" back

If technical assistance is required, contact your local dealer or distributor. Prior to making the call, have the following information available: system installation date, serial number, and a detailed description of the problem.

SYSTEM WARRANTY

Warranty Terms

Subject to the terms and conditions set forth hereinafter, the manufacturer (hereafter "Manufacturer") warrants to the original purchaser (hereafter the "Customer") that the systems and products manufactured by the Manufacturer are free from defects in material and in workmanship for twelve (12) months from the Warranty Commencement Date (as defined below) only when used strictly in accordance with the applicable operating instructions and within the range of the operating conditions specified by the Manufacturer for each such product.

This Warranty does not extend to systems, equipment, or components manufactured by others, nor to systems, equipment, or components manufactured by others and distributed by the Manufacturer. This Warranty does not extend to equipment or components manufactured by others which have been incorporated into a Manufacturer product but, if allowable the, Manufacturer hereby assigns, without warranty, to the Customer its interest, if any, under any Warranty made by the Manufacturer of such equipment or component. This Warranty does not cover disposable items such as fuses, O-rings, regeneration materials/chemicals, or other such disposable items, which must be replaced periodically under the normal and foreseeable operating conditions of the goods warranted hereby.

Warranty Commencement Date

The Warranty Commencement Date for each Manufacturer product shall be the later of the date of: (1) receipt by the Customer, or (2) the date of installation at the Customer's premises provided that such installation must occur within three (3) months of shipment from the Manufacturer's manufacturing facility. In no event shall the Warranty Commencement Date exceed three (3) months from the shipment from the Manufacturer's manufacturing facility. The Customer shall provide proof of purchase in order to exercise rights granted under this Warranty. If requested by the Manufacturer, the Customer must also provide proof of the installation date.

Warranty Service

THE MANUFACTURER'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT (AT MANUFACTURER'S SOLE DISCRETION) OF ANY PRODUCT, OR COMPONENT THEREOF, PROVED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP WITHIN THE COVERED WARRANTY PERIOD.

The Customer, at the Customer's risk and expense, shall be responsible for returning such product or component, only after obtaining a Return Goods Authorization (RGA) number from the Manufacturer, arranging for freight prepaid, and in conformance with any special packaging and shipping instructions set forth on the operation documentation or RGA instructions, or as otherwise reasonably required, to the Manufacturer, together with (1) RGA number issued by the Manufacturer at Customer's request; (2) proof of purchase and, if necessary, proof of installation date; (3) a Return Goods Authorization Form; (4) a description of the suspected defects; (5) the serial number of the Manufacturer product alleged to be defective; (6) a description of the type of water and pretreatment equipment which has been utilized in connection with the product, if any. The Manufacturer shall, in the Manufacturer's reasonable discretion, be the sole judge of whether a returned product or component is defective in material or workmanship. Required or replaced products or components shall be returned surface freight.

In genuine emergency situations, the Manufacturer will (at the Manufacturer's sole discretion) forward replacement parts to the Customer without waiting for authorized return of the questionable part(s). In such cases, Customer will issue a purchase order or other payment guarantee prior to shipment. If the returned part is found to have been misused or abused, or the defective part is not received by the Manufacturer within thirty (30) days; the Customer will be invoiced for the replacement part(s) provided. This Warranty does not cover or include labor and/or travel to the Customer's premise or location or any other location. Charges of \$2500 per day plus associated travel expenses will be incurred by the Customer in providing the Warranty Service at any location other than the Manufacturer's main headquarters; that is if the Manufacturer deems that the product is not covered by said Warranty. The Manufacturer reserves the right to precondition such travel to Customer's premises upon prepayment of the Manufacturer's anticipated costs of attending such premises.

Voidability of Warranty

This Warranty shall be void and unenforceable as to any Manufacturer product which has been damaged by accident, mishandling, abuse or has been repaired, modified, altered, disassembled or otherwise tampered with by anyone other than the Manufacturer or an authorized Manufacturer service representative; or, if any replacement parts are not authorized by the Manufacturer have been used, or, the product has not been installed, operated and maintained in strict accordance and adherence with the operating documentation and manuals for such product. Any expressed Warranty, or similar representation of performance set forth in the operation documentation for media or resin incorporated into the Manufacturer product shall be void and unenforceable unless the feed water requirements set forth in the operating documentation for such product are unequivocally and strictly adhered to.

Limitations and Exclusions

THIS WARRANTY AND REMEDIES DESCRIBED HEREIN AND HEREIN ABOVE ARE EXCLUSIVE AND IN LIEU OF ANY AND ALL OTHER WARRANTY OR REMEDIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR OTHER SIMILAR TYPES OF DAMAGES, DAMAGES FOR THE LOSS OF PRODUCTION OR PROFITS, OR INJURY TO PERSON OR PROPERTY. NO PERSON HAS ANY AUTHORITY TO BIND THE MANUFACTURER TO OTHER THAN WHAT IS SET FORTH ABOVE.

THIS WARRANTY GIVES THE CUSTOMER SPECIFIC LEGAL RIGHTS AND THE CUSTOMER MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION. THE PARTIES RECOGNIZE AND AGREE, THAT IN ALL RESPECTS THE LAWS OF THE STATE OF CALIFORNIA SHALL APPLY TO AND SHALL GOVERN ANY INTERPRETATION OR LEGAL SIGNIFICANCE OF THIS DOCUMENT.

NO WARRANTY OR OTHER LIABILITY OF THE MANUFACTURER TO CUSTOMER UNDER THIS AGREEMENT OR OTHERWISE WILL IN ANY EVENT EXCEED THE COST OF REPLACEMENT OF THE APPLICABLE MANUFACTURER PRODUCT, PART, OR ACCESSORY THAT IS SUBJECT TO ANY BREACH OF THE MANUFACTURER'S WARRANTY. THE MANUFACTURER WILL NOT BE LIABLE FOR ANY DAMAGE TO ANY PROPERTY OF CUSTOMER OR TO CUSTOMER'S CUSTOMERS FOR ANY CONSEQUENTIAL, INCIDENTAL, OR ECONOMIC LOSS OR COMMERCIAL DAMAGE WHATSOEVER. REMEDIES HEREIN PROVIDED ARE EXPRESSLY MADE THE SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF ANY WARRANTY OR OTHER OBLIGATION HEREUNDER EXPRESS OR IMPLIED OR FROM THE OPERATION OF LAW.

**For more information, visit
us at AXEONWater.com or
call 800-320-4074**





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