



Ultra-High Efficiency RO/DI (MC-RODI-400UHE-20)



OWNER'S MANUAL & INSTALLATION INSTRUCTIONS

WARNING

Please read carefully before proceeding with installation. Failure to follow any attached instructions or operating parameter may lead to the product's failure and possible damage to property.

Thank You for your purchase of a SpectraPure® System. With proper installation and maintenance, this system will provide you with high quality water for years to come. All SpectraPure® products are rigorously tested by us for safety and reliability. If you have any questions or concerns, please contact our customer service department at 1.800.685.2783 or refer to our online troubleshooting at www.spectrapure.com.

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OPERATIONAL SPECIFICATIONS

RO Feed water requirements

Operating Pressure:	30 psi minimum
pH Range:	3-11
Max. Temperature:	113°F (45°C)
Max. Feed Turbidity:	1.0 NTU
Max. Silt Density Index:	5.0 (based on 15 min. test time)
Maximum Chlorine:	< 0.1 ppm
Maximum TDS:	2000 ppm
Maximum Hardness:	10 grains (170 ppm as CaCO ₃)
Maximum Iron:	< 0.1 ppm.
Maximum Manganese:	< 0.1 ppm.
Maximum Hydrogen Sulfide:	0 ppm
Langelier Saturation Index (LSI):	must be negative

NOTE: MOST MUNICIPAL WATER SUPPLIES MEET THE ABOVE REQUIREMENTS. IF WELL WATER IS USED, PLEASE MAKE SURE THAT YOU OBTAIN A WATER TEST BEFORE INSTALLATION.

CONTENTS OF UHE WATER SYSTEM

UHE System Components:

(1) 5-Stage System

- (1) Membrane (400 GPD)
- (1) 20" 0.2 Micron ZetaZorb® Sediment Filter
- (1) 20" 0.5 Micron Carbon Block Filter
- (1) 20" MaxCap® DI Cartridge
- (1) 20" SilicaBuster™ DI Cartridge
- (1) High Flow Booster Pump
- (1) Microprocessor Controller
- (1) Pressure Regulator
- (2) Liquid Filled Pressure Gauges

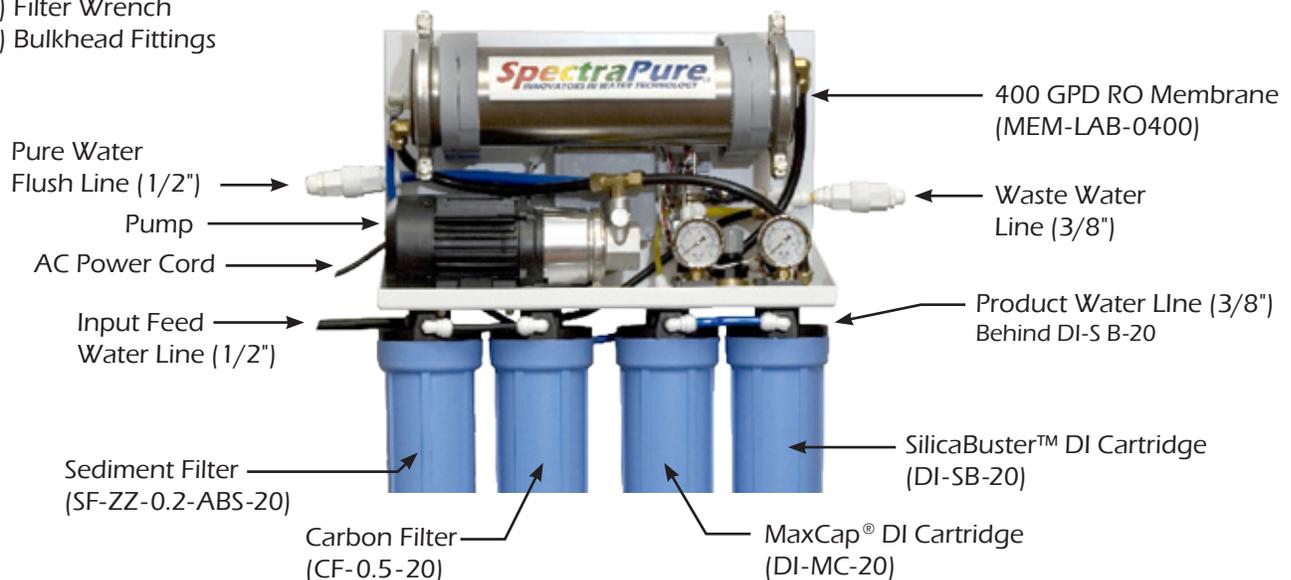
(1) High & Low Float Switches (with 6ft extension cable)

(1) Filter Wrench

(2) Bulkhead Fittings

UHE SYSTEM DIMENSIONS:
24" W x 34" H x 8" D

1/2" BLACK LINE: Tap Water input
3/8" BLUE LINE: Product Water
3/8" YELLOW LINE: Waste Water
1/2" BLUE LINE: Pure Water Flush



IF ANY OF THE ITEMS LISTED ABOVE ARE MISSING PLEASE CONTACT SPECTRAPURE PRIOR TO INSTALLATION. ALL RETURNS WITHOUT RMA# WILL BE REFUSED. CLAIMS MUST BE WITHIN 10 DAYS FROM RECEIPT.

OPERATION DESCRIPTION (how the system functions)

1. First, the incoming feed water (1/2" Black line) is passed through a 0.2 micron ZetaZorb® Sediment Filter. This filter is required to remove excess turbidity (particulate matter) that may cause the carbon block filter to become plugged.
2. The second stage of filtration is a 0.5 micron carbon block prefilter. This filter removes organics and chlorine from the feed water that can damage the membrane.
3. The third filtration stage of the system is a high rejection thin film composite (TFC) reverse osmosis membrane. It removes over 98% of most inorganic salts, all microorganisms and organics above 100 dalton molecular weight.
4. The fourth and fifth stage filter are our MAXCAP® DI cartridge followed by our SilicaBuster™ DI cartridge. These two cartridges remove the remaining impurities such as silicates, phosphates, and nitrates not removed by the RO membrane, further polishing the water to 18.2 Mohms/cm² resistivity.

High and Low Float Operation:

1. Floats are to be mounted horizontal when dry and float up when wet.
NOTE: Pressure switches may also be used with pressure tanks. Please call for more details.)
2. When the bottom float goes dry, the input solenoid (INSOL) is opened and one second later, the Pump will turn on.

Flush Cycle (flush cycle consumes only a couple of quarts of pure water):

1. As the system is running, a periodic sequence of flushes is performed.
2. When the top float gets wet, or every 8 hours of uninterrupted operation, the flush cycle is initiated.
3. After the flush cycle, the system shuts down if the tank is full or pauses for an hour to let the pure water soak the membrane before continuing.

SpectraPure® Inc. assumes no responsibility for water damage due to leaks. It is the user's responsibility to determine that the system is leak-free.

PREPARATION

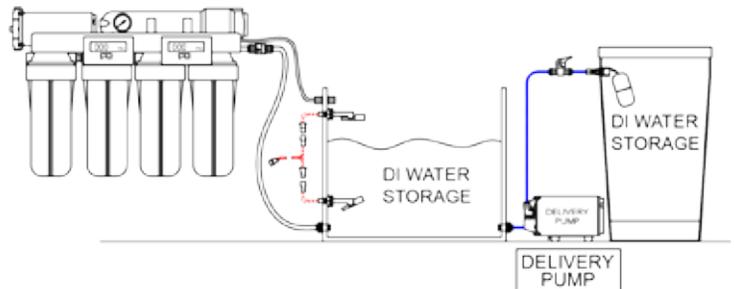
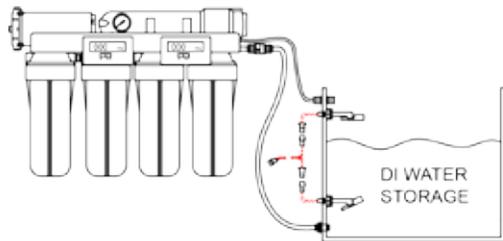
1. CHOOSING THE BEST MOUNTING LOCATION:

LIGHT SOURCE: Algae is more likely to thrive inside clear housings when exposed to ultraviolet light and other sources like metal halide lighting. Avoid installing the unit in bright light or direct sunlight.

EXTREME TEMPERATURES: The unit **MUST** be kept out of areas that are subject to extreme temperatures like freezing or temperatures greater than 113° F (45° C).

DI WATER RESERVOIR: Mount system in an area that will have enough room for a reservoir of sufficient size. This DI Water Reservoir is to be used for the Flush Cycle. (Reservoir needs to hold at least 10 gallons.)

ELEVATION FOR SYSTEM: When mounting your UHE, make sure it is elevated above your fresh water reservoir:



USE DELIVERY PUMP TO DELIVER WATER WHERE NEEDED FOR SALT MIXING OR TO SUMP

2. TOOLS RECOMMENDED FOR INSTALLATION:

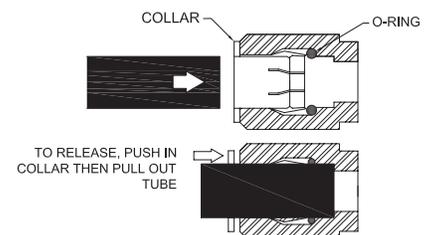


- Adjustable Wrench
- Sharp X-Acto Knife
- Open End Wrench(s)
- Electric Drill
 - 5/8" Drill bit
 - 13/16" Drill bit
- Phillips Screw Driver
- Trash Barrel or Reservoir
- Optional Ball Valve or Float Valve (as shown above)
- Optional Delivery Pump (as shown above)

3. INTRODUCTION TO PUSH FITTINGS:

Push fittings are similar to a Chinese finger trap toy.
In order to release its grip from tubing:

- Firmly depress and hold the push fitting collar down with your thumbnail.
- While the push fitting collar is depressed, pull the tubing straight out of the push fitting.
- Once the tubing is removed, release the collar.



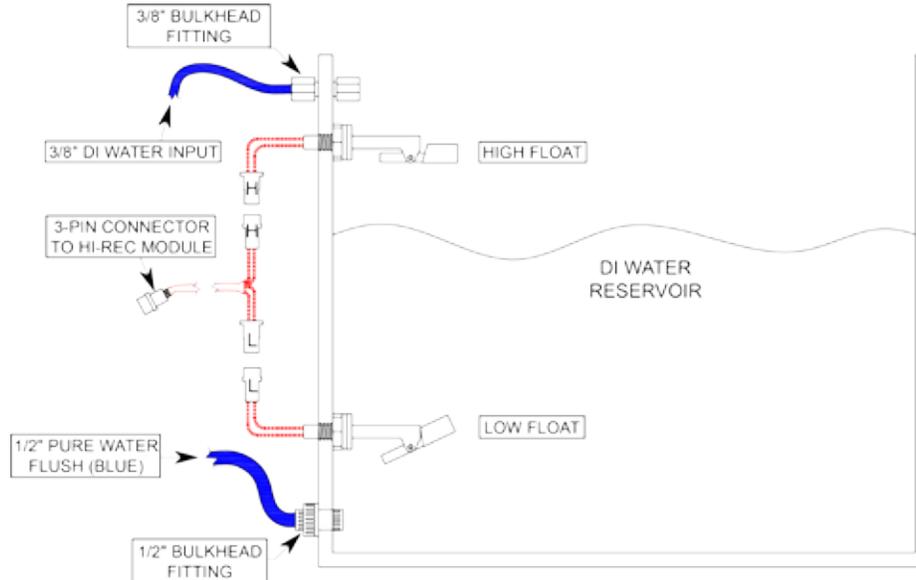
SETUP PROCEDURES

STEP 1: Connect the 1/2" Black Line to a cold water line that will provide unrestricted water flow to the RO/DI system.

STEP 2: PURE WATER FLUSH CYCLE INSTALLATION USING THE HIGH AND LOW FLOAT SWITCHES.

- A. Install both the High and Low Floats onto an open container. The floats can be mounted by drilling a 5/8" hole. (The High Float shuts down the system, while the Low Float turns the system on).
- B. Connect the floats to the "Y" adapter.
- C. Attach the 3-pin connector on the float switches to the UHE CONTROL MODULE.

NOTE: Floats are to be mounted horizontal when dry and float up when wet. In most instances we recommend locating the low float approximately halfway down your reservoir. DO NOT OVERTIGHTEN when installing the floats.



NOTE: Floats must be installed in a DI WATER storage container. This system MUST be connected to the floats to operate the Flush Cycle. Failure to install the pure water flush connection for this unit will void any warranty.

STEP 3: For now, direct both the 3/8" blue (product) line and the 3/8" yellow (waste) line to drain.

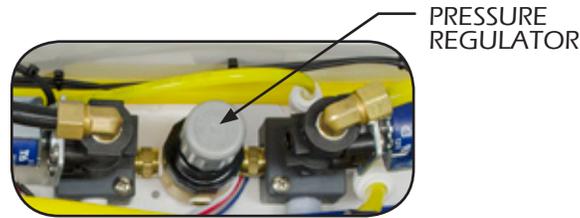
STEP 4: Open the cold water (tap water) feed that is connected to the black line. Plug in the 115/230 VAC power cord to the AC power source.

STEP 5: At this stage, the system will start producing water from the 3/8" blue and 3/8" yellow lines. Discard that water for approx. 15-20 min.

(continued on next page)

SETUP PROCEDURES (continued)

STEP 6: PRESSURE ADJUSTMENT USING THE PRESSURE REGULATOR:



- A. When pushed down, the Pressure Regulator is in the lock position. Pull up on the knob to release the lock.
- B. While the system is producing water, turn the Pressure Regulator clockwise to increase pressure or counterclockwise to decrease pressure. Set the pressure to 100 PSI, then relock the pressure knob.

STEP 7: ADJUSTING THE CONCENTRATE TO PURIFIED WATER RATIO:

If not enough concentrate is allowed to leave the system during operation, impurities will precipitate out on the membrane surface, clogging the RO Membrane. To prevent this from happening, the Concentrate to Purified Water Ratio **must** be checked and adjusted in order to compensate for pressure and temperature variations that exist in all water supplies.

NOTE: This adjustment must be made at the highest feed water temperature the system will use. The flow rate of the concentrate should be at least equal to the product flow rate (1:1)

- A. Hold both 3/8" blue and 3/8" yellow lines side-by-side and observe the flow rates.
- B. Use a measuring cup and a stop watch to measure the waste and product water. Be sure you have equal measurements and adjust accordingly.

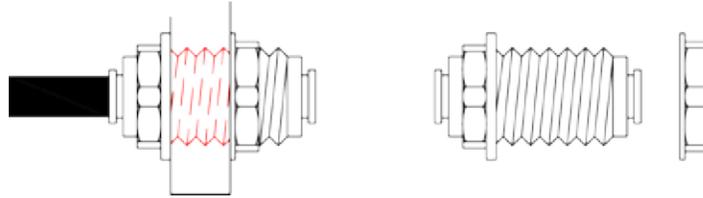
This procedure will assure you of maximum life and reliability of your SpectraPure System. Failure to perform this procedure can permanently damage the membrane and will void the prorated Membrane Warranty.

STEP 8. After you adjust the flow rate, follow STEP 7 again, if needed, to assure that the system is operating at 100 PSI.

STEP 9. At least 2 gallons (7.57 liters) of purified water will be discarded during this procedure before you can collect purified water for use. Upon startup, air may be trapped in the DI cartridges (housing may not appear full). This is a normal condition and it will not affect the operation of the DI system.

STEP 10. CONNECT BULKHEAD FITTINGS:

Bulkhead Fittings **MUST** be installed on the same container that the floats are on, SEE DIAGRAM ON PAGE 7.



3/8" BULKHEAD FITTING: Use a paddle bit and carefully drill a 13/16" hole for installation at the top of the reservoir (above the high level float).

1/2" BULKHEAD FITTING: Use a paddle bit and carefully drill a hole for installation at a point below the high float.

STEP 11. FINAL CONNECTION:

Direct the waste line (yellow) to a drain.

NOTE: Look for leaks and do not leave the system unattended until you are sure there are no leaks. Monitor the system for 72 hours.

CHECKLIST BEFORE LEAVING SYSTEM UNATTENDED:

- **Ensure that all fittings are tight and leak-free before leaving the system unattended.**
- **The concentrate line (yellow) includes a smaller capillary tube (flow restrictor) that is located "inside" the tubing. Do not remove or discard this restrictor. The system will not produce permeate water without the flow restrictor.**
- **The following conditions must be met before water will flow through the system: The system must be powered up, the water source must be turned "ON" and the water level in the reservoir tank must be below the low level float.**

MAINTENANCE PROCEDURES

We recommend that you keep replacement cartridges on hand, ready to install as soon as the monitor indicates that the cartridge in use is exhausted.

SHELF LIFE FOR FILTERS:

PREFILTERS (Sediment and Carbon Block Filters): Prefilters have an infinite shelf life.

REVERSE OSMOSIS MEMBRANE (RO): Purchase an RO membrane when needed. If you would like to keep one on hand, you can store it in the refrigerator for up to 1 year. (Keep in its sealed, original packaging). You should always see moisture inside the bag. If the membrane dries out, it will not produce water and any warranty will be voided).

DEIONIZING CARTRIDGES (DI): Replacement DI cartridges are shipped in a Mylar® Bag. Keep them in their sealed, original packaging until use. You can store them for up to 1 year.

SEDIMENT PREFILTER REPLACEMENT:

For maximum contaminant removal and long membrane life, the sediment prefilter must be changed when the system fails to maintain a minimum inlet pressure of 30 PSI when the system is running. If your water contains a great deal of sediment, the prefilter may require more frequent changes to maintain adequate production rate and extended membrane life.

Materials Required: 0.2 micron ZetaZorb® Sediment Filter (SF-ZZ-0.2-20), Filter Wrench.

NOTE: Failure to use a ZetaZorb® sediment filter as the replacement will void the system's warranty.

Procedure: (FIRST FILTER ON LEFT)

1. Turn off water supply to the system.
2. Using the provided filter wrench, remove the first housing on the left. Unscrew it counterclockwise as viewed from the bottom.
3. Remove the old filter and discard.
4. Thoroughly wash the housing with a mixture of hot soapy water and a few teaspoons of household bleach. Rinse well with clean hot water.
5. Install the new prefilter into the housing, Screw the housing back onto the assembly, and hand tighten only.

NOTE: Do not use filter wrench to tighten housings. Over-tightening will damage housings and void your warranty.

6. Proceed with carbon block filter replacement.

CARBON BLOCK PREFILTER REPLACEMENT:

For maximum contaminant removal and long membrane life, periodically test for the presence of chlorine in the waste water stream. The Carbon prefilter must be changed when more than 0.1 ppm of chlorine is detected.

Materials Required: 0.5 micron Carbon Block Filter (CF-0.5-20), Filter Wrench, Chlorine Test Kit (TK-CL-10-KIT)

Procedure: (SECOND FILTER ON LEFT WHEN FACING SYSTEM)

1. Perform steps 1-5 on page 10.
2. Turn on system's water supply and check for leaks.

REVERSE OSMOSIS MEMBRANE REJECTION DIAGNOSTICS:

Although RO membranes are capable of maintaining high water quality over extended periods of time, eventually they will begin to deteriorate. Normally, the conductivity of the permeate water will increase as the membrane ages. By comparing the difference in readings between the Tap water conductivity and the RO water conductivity, the percentage of rejection of the RO membrane may be calculated and the resultant value may then be used to determine the condition of the membrane. In this way, the operator will know when the membrane needs to be replaced. Membrane failure will be indicated by a reduction in the percentage rejection which will be determined by calculating the differential between the input and output readings.

In order to accurately determine the condition of the RO Membrane, a conductivity meter capable of reading the tap water conductivity and the permeate water conductivity should be used. Using this meter, you will be able to easily determine the RO membrane's condition.

Before performing the diagnostic test on the RO membrane, make sure that the RO system has been "ON" and producing pure water for a minimum of 10 minutes. Also check the brine (yellow) line to make sure that water is flowing and that the flow ratio between the brine water and the permeate water is at a ratio that is approximately 1:1. (NOTE: The pressure gauge should indicate a pressure reading of 100 PSI during this 15-20 minute test period.)

Procedure:

1. Read the Tap Water conductivity and record the reading. _____
2. Read the Permeate Water conductivity and record the reading. _____
3. Use the two reading to apply them to the calculation below:
4. The general rule is that you should replace your Reverse Osmosis (RO) Membrane when the % of rejection falls below 96%.

$$\frac{(X - Y) = Z}{X} = \begin{array}{l} \% \text{ REJECTION} \\ \text{BY MEMBRANE} \end{array}$$

TAP WATER TDS = X
RO WATER TDS = Y

EXAMPLE: $(500 - 20) = 480 / 500 = 0.96$ (96% rejection)

REVERSE OSMOSIS MEMBRANE PERFORMANCE TESTING:

The actual performance of the membrane in the MC-RODI-400UHE-20 is primarily dependent on Tap Water Temperature. In order to characterize a membrane, there must be common testing data. For testing the UHE-400 membrane, the specification is 77° F water temperature. Warmer water will result in an increase in production and colder water will result in a decrease in production. Most locations will not have exactly 77° F water. Use the calculation below to determine what the membrane will produce with your water conditions. Look up the water temperature on the chart below to determine the Temperature Correction Factor (TCF).

Temperature Correction Factor Table (TCF)

°F/°C	TCF	°F/°C	TCF	°F/°C	TCF
41.0/5	0.521	59.0/15	0.730	77.0/25	1.000
42.8/6	0.540	60.8/16	0.754	78.8/26	1.031
44.6/7	0.560	62.6/17	0.779	80.6/27	1.063
46.4/8	0.578	64.4/18	0.804	82.4/28	1.094
48.2/9	0.598	66.2/19	0.830	84.2/29	1.127
50.0/10	0.620	68.0/20	0.857	86.0/30	1.161
51.8/11	0.640	69.8/21	0.884	87.8/31	1.196
53.6/12	0.661	71.6/22	0.912	89.6/32	1.232
55.4/13	0.684	73.4/23	0.941	91.4/33	1.267
57.2/14	0.707	75.2/24	0.970	93.2/34	1.304

TEMPERATURE COMPENSATION

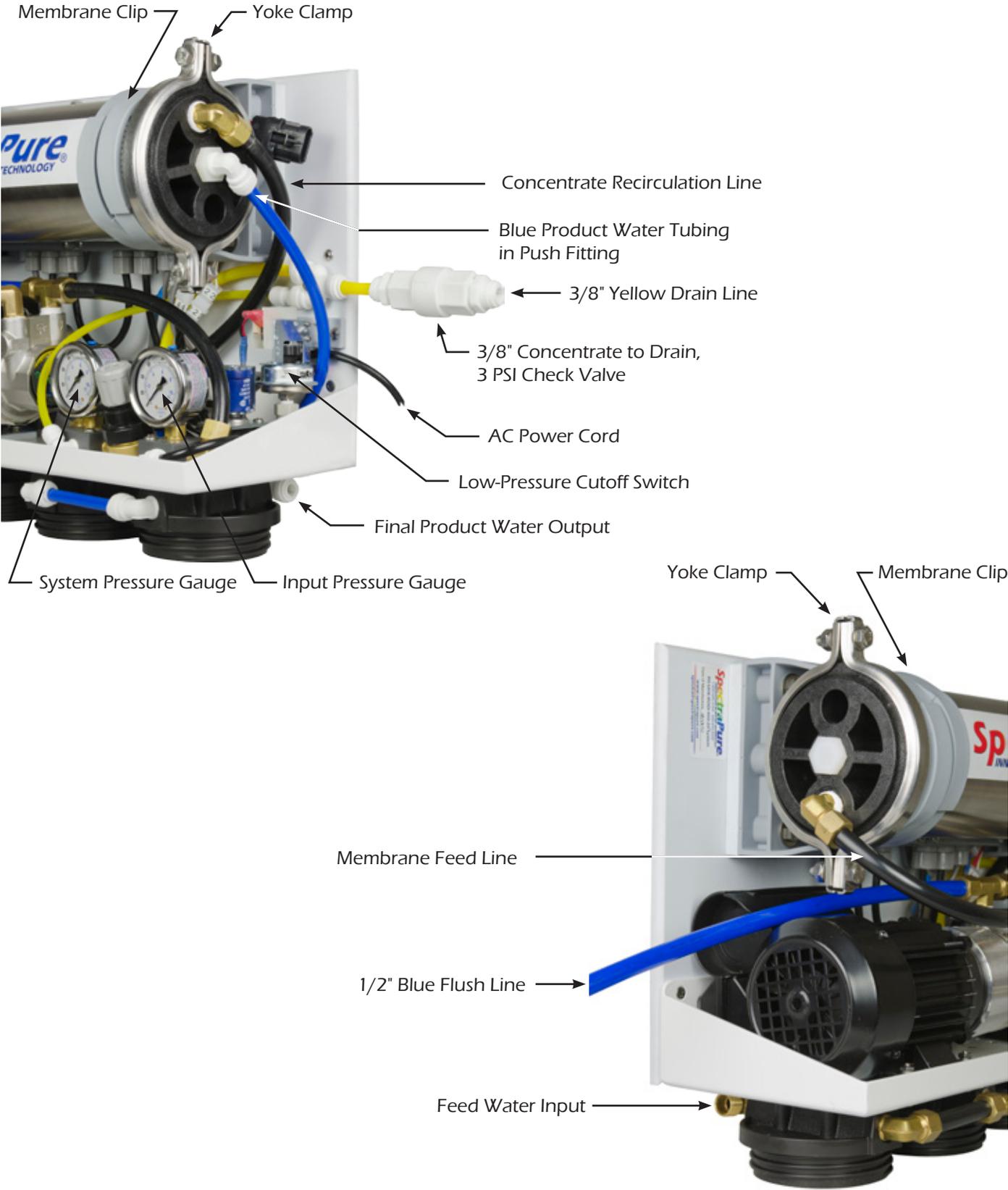
$$\begin{array}{c} \boxed{400} \\ \text{Nominal} \\ \text{Production} \\ \text{Rate} \end{array} \times \begin{array}{c} \boxed{\text{T.C.F.}} \\ \text{=} \\ \text{Actual} \\ \text{Production} \\ \text{Rate} \end{array}$$

REVERSE OSMOSIS MEMBRANE REPLACEMENT:

1. Turn off the water supply to the RO system and unplug the power cord. Place the system where the membrane housing is easily accessible.
2. Loosen the single brass compression nut and remove the black tubing from the membrane housing feed water fitting. This is the "input" end.
3. Loosen the brass compression nut and remove the black tubing from the opposite end of the membrane housing.
4. Remove the blue tube from the center-located push fitting on the same end.
5. Use two flat head screwdrivers to separate and release the "tooth-like" clips on each end of the membrane housing. Remove the housing from the two clips.
6. The membrane housing may now be relocated to a sink or other waterproof area.
7. Remove the two bolts that hold the yoke clamp together on the end of the housing with one fitting. This is the "input" end.
8. Pull or pry the black cap from the steel housing. Pull the membrane out of the housing. Note the orientation of the membrane. The brine seal is on the end to first come out.
9. Wash the empty housing with soapy water. Rinse thoroughly with hot, clean water.
10. Put a small amount of silicone lubricant on both ends of the protruding product tube.
11. Insert the new membrane into the housing with the brine seal end the last to go in. Firmly push the membrane into the housing until it bottoms out.
12. Carefully press the black cap back onto the base.
13. Reinstall the yoke clamp and tighten both bolts.

(continued on page 14)

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REVERSE OSMOSIS MEMBRANE REPLACEMENT: (continued)

14. Reinstall the membrane housing assembly into the two “tooth-like” clips and squeeze the clips together until the membrane is snug.
15. Reconnect the black tubing on the input end and tighten the compression nut.
16. Reconnect the black tubing on the opposite end and tighten the compression nut.
17. Inset the blue tubing firmly into the push fitting on the same end.
18. Turn on the water supply to the system and plug in the power cord.
19. The water level will have to be below the low float for the system to turn on so you can check for leaks.

TIPS FOR LONG MEMBRANE LIFE:

1. Replace the 0.2micron sediment filter at least once every 6 months. This will prevent membrane fouling due to silt or sediment depositing on the membrane.
2. Replace the 0.5 micron carbon block filter at least once every 6 months or when chlorine breakthrough occurs. This will ensure good membrane life and protect the membrane from chlorine damage.
3. The membrane should not be operated at lower than the recommended concentrate to purified water ratios.
4. Operating reverse osmosis systems on softened feed water greatly reduces the chances of membrane fouling.

DEIONIZATION CARTRIDGE MAINTENANCE AND REPLACEMENT:

Materials required: Filter wrench and DI cartridge.

Procedure:

1. When the reading on the external Resistivity Monitor drops below 1 Mohm/cm² (or whatever the minimum requirement is), it is time to replace **both** DI cartridges.
2. Disconnect power to the system and shut down the water supply line.
3. Use the filter housing wrench to rotate the housing counterclockwise and remove.
4. Remove the spent DI cartridge from the housing and discard.
5. Install a new DI cartridge in the housing.
6. Be sure the DI cartridge is installed in the same orientation as the original and that the top seal is securely attached to the top of the cartridge.
7. Reinstall and tighten the cartridge housing by rotating it clockwise, then hand tighten.
8. Turn the system on and check for leaks.

THREE YEAR MANUFACTURER'S WARRANTY

SpectraPure, Inc.® warrants the product to the original owner only to be free of defects in material and workmanship for a period of one year from the date of receipt. SpectraPure's liability under this warranty shall be limited to repairing or replacing at SpectraPure's option, without charge, F.O.B. SpectraPure's factory, any product of SpectraPure's manufacture. SpectraPure will not be liable for any cost of removal, installation, transportation or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by SpectraPure are subject to the warranty provided by the manufacturer of said products and not by SpectraPure's warranty. SpectraPure will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair or, if the product was not installed in accordance with SpectraPure's or other manufacturer's printed installation and operating conditions, or damage caused by hot water, freezing, flood, fire or acts of God.

SpectraPure will not be responsible for any consequential damages arising from installation or use of the product, including any water or mold damage due to flooding which may occur due to malfunction or faulty installation, including, but not limited to failure by installer to over- or under-tighten fittings, housings, and/or push-style fittings, or improper installation of push-style fittings. Consumable items such as pre filters and membranes are not covered under the two year warranty.

SpectraPure warrants (prorated) the performance of tested SpectraSelect™ RO membrane elements only, for one year from date of receipt by the buyer, providing that the loss of performance was not caused by fouling, neglect or water conditions exceeding the feed water parameters listed in the applicable product manual (refer to detailed membrane warranty information). SpectraPure will, on confirmation of loss of performance during the warranty period, credit the prorated amount of the current catalog price of the element. The disposable filters and cartridges are not covered under the warranty.

To obtain service under this warranty, the defective system or components must be returned to SpectraPure with proof of purchase, installation date, failure date and supporting installation data. Any defective product to be returned to the factory must be sent freight prepaid; documentation supporting the warranty claim and a Return Goods Authorization (RGA) number must be included. SpectraPure will not be liable for shipping damages due to the improper packaging of the returned equipment and all returned goods must also have adequate insurance coverage and a tracking number.

SpectraPure will not pay for loss or damage caused directly or indirectly by the presence, growth, proliferation, spread or any activity of "fungus", wet or dry rot or bacteria. Such loss or damage is excluded regardless of any other cause or event that contributes concurrently or in any sequence to the loss. We will not pay for loss or damage caused by or resulting from continuous or repeated seepage or leakage of water, or the presence or condensation of humidity, moisture or vapor, that occurs over a period of 14 days or more. "Fungus" and "fungi" mean any type or form of fungus or Mycota or any by-product or type of infestation produced by such fungus or Mycota, including but not limited to, mold, mildew, mycotoxins, spores, scents or any biogenic aerosols.

SpectraPure will not be liable for any incidental or consequential damages, losses or expenses arising from installation, use, or any other causes. There are no expressed or implied warranties, including merchantability or fitness for a particular purpose, which extend beyond those warranties described or referred to above.

*** The three year limited warranty does not apply to consumable items, including but not limited to, filters and cartridges unless specifically stated above.**

TROUBLE SHOOTING GUIDE

Problem	Cause	Corrective Action
<hr/> Low production rate.		
	a. plugged prefilters.	i. Replace prefilters.
	b. low water temperature.	ii. Use higher GPD membrane.
	c. fouled membrane.	iii. Replace membrane.
	d. plugged flow restrictor.	iv. Replace flow restrictor & membrane.
<hr/> Zero production rate.		
	a. Dried membrane.	i. Replace membrane.
	b. Power supply not plugged in	ii. Plug power in.
	c. Both floats need to be dry	iii. Both floats need to be dry and level, not drooping
<hr/> Extremely high production rate.		
	a. Ruptured membrane.	i. Replace it.
<hr/> Milky colored water.		
	a. Air in system.	i. Air in the system is a normal occurrence with initial startup of the RO/DI system. This milky appearance will disappear during normal use within 1-2 weeks.
<hr/> The water in the Pure Water container drains out when not used.		
	a. The system is not elevated higher than the Pure Water container	i. Elevate the system higher than the Pure Water container to avoid siphoning.
<hr/> Cannot adjust waste water flow		
	a. W.F. adjustment valve in lock position	i. Unscrew lock nut on W.F. valve

REPLACEMENT AND OPTIONAL PARTS

Part No.	Description
SF-ZZ-0.2-ABS-20	0.2 micron ZetaZorb® Sediment Filter (1st Stage)
CF-0.5-20	0.5 micron Carbon Block Prefilter (2nd Stage)
MEM-LAB-0400	Replacement Membrane (3rd Stage)
DI-MC-20	20 in. MaxCap® Deionization Cartridge (4th Stage)
DI-SB-20	20 in. SilicaBuster™ Deionization Cartridge (5th Stage)
V-SOL-4-PL-DEMA	1/4 in. Solenoid Valve
PSP-400UHE-PUMP-230	High-Volume Upgrade Commercial Pump