SpectraPure®
INNOVATORS IN WATER TECHNOLOGY

MaxPure MPDI™ RO/DI System
(90 & 180 GPD)

Reverse Osmosis/Deionization
Water Purification Systems



INSTALLATION AND OPERATING MANUAL

WARNING

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

2019-10-01

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Warning: SpectraPure does not recommend drinking deionized water.

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This MPDI RO/DI System comes complete with:

- High-rejection SpectraPure® advanced thin-film membrane (2 membranes in 180GPD system)
- 3:1 waste-to-product ratio produces 33% less waste water
- Long-life high-efficiency 1 micron Sediment Prefilter
- High-capacity 1 micron Carbon Block Prefilter eliminates chlorine, herbicides and other organic pollutants
- Color-Indicating SilicaBuster™ DI Cartridge (DI-SB-CI-10)
- Tri-color custom pressure gauge indicates when to change prefilters
- Durable, no rust mounting bracket & clear filter housings
- 6-foot feed, product and waste tubing included
- Housing wrench for easy filter removal
- Garden hose adapter for feed water hookup
- One year warranty

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. However,* 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. *If you have any questions or concerns, please contact our customer service department at 1.800.685.2783.*

SYSTEM SPECIFICATIONS:

Sediment Prefilter	1 micron MicroTec™ sediment prefilter (SF-MT-1-10)
Carbon Filter	1 micron carbon block prefilter (CF-1-10)
DI Cartridge	SilicaBuster™ Color-Indicating DI Cartridge (DI-SB-CI-10)
RO Membrane Type	Thin-Film Composite (TFC)
Rejection Rate	98% average
Input Water Pressure	60 psi (4.15 bar) line pressure*
Input Water Temp	77°F (25°C)
Recovery Rate	25% (i.e. 25% of the water will be collected as pure water)

Dimensions:

MPDI-180	15" W x 18" H x 7" D (Two Membranes)
MPDI-90	15" W x 16" H x 7" D (One Membrane)

Nominal Membrane Flow Rates @ 60 psi, 77° F, & 250 ppm TDS :

GPD	Product Water Flow Rate	Concentrate Flow Rate (2:1)
90	234 ml/min	702 ml/min
180	468 ml/min	1404 ml/min

Permeate flow and TDS rejection is based on the following test conditions: 250 ppm tap water, 77° F (25° C), 33% recovery and 60 psi.

Higher TDS, harder tap water, higher temperature, greater recovery rate, or lower operating pressure may contribute to reduced permeate flow and/or lower TDS rejection.

Reverse Osmosis Operating Limits:

Operating Pressure*	40 – 80 psi (2.75 – 5.5 bar)
pH Range	2 – 10
Maximum Temperature	113° F (45° C)
Maximum Turbidity	1.0 NTU
Maximum Silt Density Index	5.0 (based on 15 min. test time)
Free Chlorine Tolerance	less than 0.1 ppm
Maximum Iron	less than 0.1 ppm
Maximum Manganese	less than 0.1 ppm
Maximum Hydrogen Sulfide	0 ppm
Langelier Saturation Index	LSI must be negative

*Operating pressure less than 40 psi may require a booster pump:
Operating pressure greater than 80 psi may require a pressure regulator.

GENERAL SYSTEM DESCRIPTION:

This SpectraPure® RODI System gives you a continuous supply of sparkling clear water. The reliability with the SpectraPure® Water Treatment System is greatly improved over other systems. Costly maintenance can be avoided, providing high quality water at your fingertips.

The incoming feed water from a cold water source is directed through BLACK tubing with an inline ball valve and is first passed through a sediment prefilter. This filter is used to remove excessive turbidity, sand, dust, silt, etc., that would otherwise cause the carbon filter to become fouled with particulate matter which would reduce the downstream pressure, resulting in a drop in production and a diminished ability to remove chlorine. The next stage of filtration is the carbon block prefilter. This filter is used to remove organics and chlorine from the feed water that can damage the membrane. The next stage of the system is the RO membrane.

Household water pressure is used to force tap water through the semipermeable RO membrane. The membrane only allows the purest of water molecules to pass through it while over 98% of most inorganic salts, all microorganisms and almost all high molecular weight organics in the water are rejected by the membrane and sent down the drain.

This RODI system has a single-stage Deionization cartridge that polishes the RO water to less-than-one ppm purity. The system uses the standard SilicaBuster™ Color-Indicating DI Cartridge (DI-SB-CI-10), however, you may replace it with our new SilicaBuster™ Extended Life Super DI Color-Indicating Cartridge (DI-SB-CI-10HC).

SINGLE MEMBRANE RO/DI SYSTEM - FRONT VIEW

MPDI - 90 GPD:



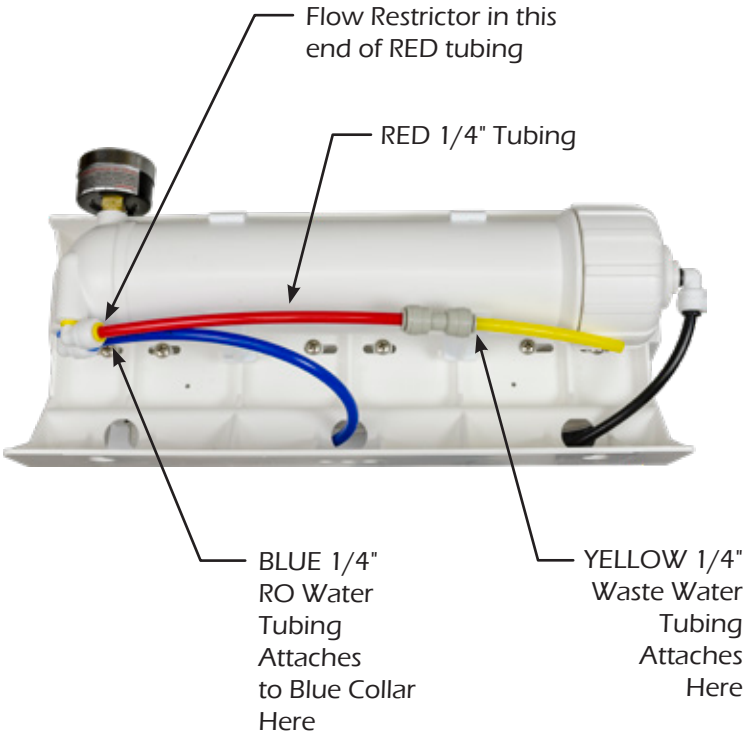
DUAL MEMBRANE RO/DI SYSTEM

MPDI - 180:

Similar to above, except has two 90 GPD membranes.

SINGLE MEMBRANE RO/DI SYSTEM - TOP VIEW

MPDI - 90 GPD:



WORKING WITH PUSH FITTINGS:

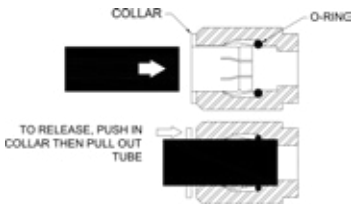
Push fittings are very reliable and convenient tubing connectors.

To remove the tubing from its push fitting:

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

To reinsert the tubing into its push fitting:

1. Moisten the O-ring seal inside the push fitting by dripping a few drops of clean water into the fitting.
2. Grasp the tubing near the end, and insert the tubing into the push fitting.
3. Push the tubing into the fitting until resistance is felt, approximately 1/2 inch (12.7 mm). The tubing is now resting on the O-ring seal inside the fitting.
4. Firmly push the tubing approximately an additional 1/4 inch (6.35 mm) further into the fitting to completely seat the line into the fitting and past the O-ring seal.
5. Turn on the system water supply and check for leaks prior to further use or testing. If a leak is observed, you may not have pushed the tubing into the push fitting far enough to seal the tubing against the O-ring. Turn off the system water supply and reseat the tubing as described above.



SYSTEM INSTALLATION & INITIALIZATION:

1. Most of the components of this system are plastic and are subject to damage by ultraviolet light from the sun and other sources such as metal halide lighting.
2. Avoid installing this unit in an area where it may be subjected to bright light or direct sunlight, as algae is more likely to thrive inside the clear filter housings when exposed to bright light. The unit must be kept out of areas that are subject to freezing temperatures.
3. High temperatures greater than 113° F (45° C) must be avoided. If the unit is used outside, avoid putting the system in direct sunlight or connecting it to a garden hose that may be exposed to sunlight.
4. Attach the black tap water tubing to the left side of the Sediment Filter Housing (See page 6).
5. Attach the black tubing and elbow(s) to the membrane housing cap(s).
6. Attach the garden hose adapter **(connected to the black tubing)** to your cold water source. Never run hot water (greater than 113° F/45° C) through the system.
7. Unscrew the right-hand DI housing and remove the DI cartridge. Reconnect the empty housing to the threaded cap. Hand tighten.
8. Place the **yellow concentrate (waste) tubing** and the **blue purified (product) water tubing** temporarily into a drain. Do not restrict flow from these lines.
9. Open the cold water supply valve. The pressure should not exceed 80 psi. Run the system for an hour to flush membrane residue.
10. Check the system to ensure that all fittings are tight and leak-free before leaving the system unattended. (If anything is leaking, contact SpectraPure for assistance.)
11. Unscrew the right-hand DI housing and replace the DI cartridge. Reconnect the housing to the threaded cap. Hand tighten.
12. Discard approximately 2 gallons of product water before collecting purified water for use.
13. Close the cold water supply valve.
14. Finish the installation by directing or connecting the yellow line to a permanent drain.

NOTE: It may take several days of normal operation for the membrane to reach its full production rate.

SEDIMENT PREFILTER REPLACEMENT:

A Sediment Filter will usually last approx. 4-6 months, depending on the quality of the tap water and quantity of water being produced. (The life span of the filter is determined by the turbidity, iron content, organics, and total particulate volume in your water source). The best way to determine when your Sediment Prefilter needs replacement is to monitor the Pressure Gauge. When you have a drop in pressure of 15-20% below your normal gauge pressure, replace the filter. To verify this, run water through the system without the filter in its housing. If the pressure returns to your normal house pressure without the filter, you will know the filter you just took out was plugged up and causing the pressure drop.

**NOTE: A drop in the system's production is, in most cases, an indication that the sediment filter has become saturated with contaminants and will need to be replaced. If you remove the sediment and the pressure does not return to normal, the carbon filter may be plugged. If your water contains a great deal of sediment or chlorine, the prefilters may require more frequent changes to maintain adequate production rate and extended membrane life.

Sediment Prefilter Replacement

Materials Required: Sediment Prefilter (SF-MT-1-10 or SF-MT-0.5-10), Filter Wrench (WR-UNIV)

Procedure:

1. Turn off water supply to the system.
2. Using the provided filter housing wrench, remove the first housing on the left. Unscrew it clockwise as viewed from the top.
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. Insert 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 FILTER REPLACEMENT:

A Carbon Filter will usually last 4-6 months, depending on the chlorine (or chloramine) content of your tap water and quantity of water being produced. The best way to determine when your Carbon Block Prefilter needs replacement is to use a chlorine test kit.

Any chlorine level above 0.1 ppm will cause damage to the membrane and indicates that the carbon block filter must be changed. To test for chlorine breakthrough, collect a 10 ml sample of the concentrate from the yellow tubing and test the chlorine concentration using test kit TK-CL-10-KIT. If the chlorine concentration is above 0.1ppm, replace the carbon prefilter.

**NOTE: A drop in the system's production is, in most cases, an indication that the sediment filter has become saturated with contaminants, but a carbon filter may also decrease production if it's covered with extremely fine sediment. If the carbon filter becomes fouled with sediment, it will no longer be able to remove chlorine.

Carbon Block Filter Replacement

Materials Required: Carbon Block Prefilter (CF-1-10 or CF-0.5-10), Filter Wrench, Chlorine Test Kit (TK-CL-10-KIT)

Procedure:

1. Turn off water supply to the system.
2. Using the provided filter housing wrench, remove the second housing from the left. Unscrew it clockwise as viewed from the top.
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. Insert the new carbon block filter 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. Turn on system water supply and check for leaks.

DI CARTRIDGE REPLACEMENT:

1. Without a TDS meter, you will have to determine when to replace the DI cartridge. Monitor the color-changing DI resin for exhaustion. The resin will start to change color at the indicator label on the cartridge. The color change will grow upward and should indicate exhaustion when the color change gets to the top of the cartridge.
2. A better and more accurate method would be to use a hand-held TDS Meter. Measure a sample of product water in a CLEAN cup. If it displays "001 ppm" or higher, it is time to replace the SilicaBuster™ DI cartridge. (Part # DI-SB-CI-10) You may also replace it with our new SilcaBuster™ Extended Life Super DI cartridge (DI-SB-CI-10HC). It has greater capacity, yet still fits in your housing.
3. Turn the system off and remove the cartridge housing by rotating it counterclockwise until it is free of the threaded head on the bracket.
4. Make sure the new DI cartridge is installed in the correct direction as marked on the cartridge shell and be sure that the top seal is securely attached to the top of the cartridge.
5. Tighten the cartridge housing by rotating it clockwise and hand tighten.
6. Turn on system and check for leaks.

RO MEMBRANE REPLACEMENT:

1. Turn off the water supply to the RO system. Place the system where the membrane housing(s) can be easily accessed.
2. Remove the black tubing from the membrane feed push fitting by depressing the collar on the fitting with your thumb and pulling the tubing from the push fitting. You should not have to remove the blue and yellow tubes.
3. Lift the membrane housing from the retention clips and unscrew the membrane housing cap. This may require two people.
4. Use a pair of pliers to grasp the membrane stem and pull the membrane from the housing.
5. Remove the black housing O-ring. Wash the empty housing with soapy water. Rinse thoroughly with hot, clean water.
6. Insert the new membrane into the housing, with the double o-ring end first. The o-rings and tube must fit into the recess at the bottom of the membrane housing. When the membrane is aligned with the recess, firmly push the membrane into the recess until it bottoms out.
7. Place the black housing O-ring on the housing rim and carefully screw the lid back on to the base. Hand-tighten.
8. Reconnect the black tubing to the membrane feed push fitting.
9. If you have a dual-membrane system (-180), perform steps 2 thru 8 on the second membrane.
10. Open the Flush Valve and allow the system to flush for several minutes to remove any loose particles.
11. Close the Flush Valve and turn on the water supply to the system.
12. Check for leaks.

RO MEMBRANE DIAGNOSTICS:

In order to accurately determine the condition and performance of the RO Membrane, a conductivity tester capable of reading the tap water conductivity (or TDS) and the product water conductivity (or TDS) would typically be required.

You may also use an alkalinity test kit (on softened water sources) or a hardness test kit (on non-softened water sources).

Note: All water sources are different and are subject to changes in conductivity from season to season which could affect the TDS reading depending on the time of the year. For this reason, we recommend the use of a conductivity (TDS) tester in order to determine the most accurate measurement for determining the condition of the RO membrane.

TESTING THE QUALITY OF THE MEMBRANE:

The performance of a RO membrane is measured by its ability to reject salts or TDS (Total Dissolved Solids). This procedure will require a TDS Meter. SpectraPure offers several models:

MTR-TDS-EZ	HM Digital Hand-held TDS Meter
MTR-TDS-DM1	HM Digital In-Line Dual Probe TDS Meter

General Procedure:

1. Measure tap water TDS. (Call it X)
2. Run the system for 15-20 minutes.
3. Rinse test instrument cell 2-3 times with RO water.
4. Measure RO water TDS directly from the blue product water line. (Call it Y).
5. Subtract RO water TDS from tap water TDS. (X - Y)
6. Divide this quantity by tap water TDS. (X - Y) ÷ X
7. Rejection = [(X - Y) ÷ X] ×100

TDS in the above procedure is measured in ppm or mg/l.
Important: Test the quality of the membrane once every 6 months.

Rejection of the RO Membrane Calculation Example

1. Tap water TDS = 150 ppm (X)
2. RO water TDS = 15 ppm (Y)
3. X - Y = 135 ppm
4. (X - Y) ÷ X = 135 ÷ 150 = 0.90
5. Rejection = [(X - Y) ÷ X] ×100 = 0.90 ×100 = 90%

NOTE: Rejection rates less than 95% may indicate that the membrane should be replaced.

MEMBRANE PRODUCTION CALCULATION:

Membranes produce the rated gallons per day (GPD) at 60 psi (4.1 bars) operating pressure, 77°F (25°C) operating temperature and with no more than 500 ppm total dissolved solids.

Membrane output gallons per day (GPD) depends on operating pressure, water temperature and the TDS in the feed water.

Expected GPD = Rated GPD × PCF × TCF

PCF is the pressure correction factor
TCF is the temperature correction factor

Calculation of Pressure Correction Factor (PCF): The output (GPD) from the membrane is directly proportional to the applied pressure.

NOTE: The membrane is rated to produce the rated GPD at 60 psi. For any pressure other than 60 psi the output GPD is multiplied by the PCF.

PCF = Line Pressure (in psi) ÷ 60

Calculation of Temperature Correction Factor (TCF): The output (GPD) decreases with a decrease in temperature. This is due to water viscosity increasing with a decrease in water temperature.

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

Membrane Output Calculation Example

What is the expected GPD from a 100 GPD System at 40 psi pressure and 60˚F water temperature?

PCF = 40 ÷ 60 = 0.666
TCF = 0.754 (from Table above)

Expected GPD = 100 × 0.666 × 0.754 = 50.2 GPD ± 20%

50.2 GPD would be the Actual Production Rate

TIPS FOR LONG MEMBRANE LIFE:

1. Replacement of sediment filter at least once every 6 months.This will prevent membrane fouling due to silt or sediment depositing on the membrane.
2. Replacement of 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. Membrane should not be operated at lower than the minimum 3:1 concentrate to purified water ratio.
4. Operating reverse osmosis systems on softened feed water greatly reduces the chances of membrane fouling.

TROUBLESHOOTING GUIDE:

1. Low production rate:

a. plugged prefilters.	i. Replace prefilters.
b. low water temperature	ii. Warm feed water OR use higher GPD membrane.
c. low line pressure.	iii. Use booster pump OR use higher GPD membrane.
d. high TDS content.	iv. Use booster pump OR use higher GPD membrane.
e. fouled membrane.	v. Replace membrane to restore flux.
f. plugged flow restrictor.	vi. Replace flow restrictor & membrane.

2. Zero production rate:

a. Missing flow restrictor.	i. Install flow restrictor in the red line.
b. Dried RO membrane.	ii. Try to restore flux by soaking in rubbing alcohol OR replace the membrane.
c. Plugged flow restrictor.	iii. Replace flow restrictor and replace the membrane.
d. Flush Valve is open.	iv. Close Flush Valve.

3. Extremely high production rate:

a. Ruptured membrane.	i. Replace membrane.
b. Very high line pressure (> 80 psi).	ii. Use a pressure regulator.

4. Pressure gauge does not register pressure when the system is "ON"

a. Missing flow restrictor.	i. Put flow restrictor in the red line.
b. Pressure gauge screwed in too far.	ii. Unscrew pressure gauge one-half turn and retest.
c. Plugged pressure gauge orifice.	iii. Clean orifice with a needle.
d. Defective pressure gauge.	iv. Replace it.

5. Low deionization cartridge life:

a. Defective membrane.	i. Replace it.
b. Low pressure (< 40 psi).	ii. Use booster pump.
c. High CO2 levels in water (> 5 ppm)	iii. Aerate RO product water.
d. High TDS in feed water (> 1000 ppm).	iv. NO EASY SOLUTION.
e. Bad or faulty DI cartridge.	v. Replace DI cartridge.
f. High pH tap water (>9.0).	vi. Acidify feed water to the RO membrane to improve its rejection.
g. Faulty monitor/probe.	vii. Test and Replace if required.

ONE YEAR LIMITED 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 manufacture'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 prefilters and membranes are not covered under the one year 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 Merchandise Authorization (RMA) 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 byproduct 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 one year limited warranty does not apply to consumable items, including but not limited to, filters and cartridges unless specifically stated above.**

TERMS AND CONDITIONS:

1. Shipping charges on units or parts submitted to our facility for repair or replacement must be borne by the registered purchaser. After repair or replacement, the factory will return the unit or part freight prepaid to the customer.
2. We assume no warranty liability in connection with our equipment other than as herein specified.
3. This warranty is in lieu of all other warranties expressed or implied, including warranties of fitness for a particular purpose.
4. We do not authorize any person or representative to assume for us any other obligation on the sale of our equipment. This is the exclusive remedy and liability for consequential damages under any and all warranties which are excluded to the extent exclusion is permitted by law.
5. Proof of original purchase date must accompany all warranty claims.
6. SpectraPure, Inc. Reserves the right to change prices without notice when necessary. All prices in the catalog are quoted in US dollars.
7. Claims for error in quantity or condition must be made within 10 days of receipt of material. SpectraPure, Inc. will not be responsible for any claimed shortages not reported within 10 days. Returns other than warranty claims may be subject to 20% restocking fee.
8. SpectraPure, Inc. cannot be held liable for damage or loss to a shipment by a freight carrier. Check shipment for damage before acceptance or note on freight bill subject to inspection for concealed damage. Consignee must file claim. SpectraPure, Inc. will offer as much assistance as possible.
9. A complete credit check is required prior to shipping on a Net 30 basis. In the interim period during which credit references are being evaluated, all orders must be prepaid until approved.
10. All returned checks (due to insufficient funds or closed accounts) will be subjected to a **$35 penalty charge.**
11. Invoices on Net 30 accounts not paid within 30 days of shipment will be considered delinquent and will accrue Finance charges at the rate of 1.5% per month (18% per annum).

OPTIONAL ACCESSORIES:

PIGGYBACK UPGRADE KITS (PBK-90), - This add-on kit contains everything you need to double the output (gallons per day) of your existing 90 GPD RO or RODI System. All necessary fittings, tubing, adapters and flow restrictors are included.

UV PURIFIER KIT (UV-1GPM-KIT) - Are you on a private well or other potentially unreliable source of water? You may require a UV kit to destroy harmful bacteria, viruses and other contaminants. Ultraviolet kills up to 99% of all viruses and bacteria for the safest water. This kit contains everything you need to add UV to your Reverse Osmosis System.

BOOSTER PUMP KITS (BPHF-MO-115) - SpectraPure® Booster Pump Kits are ideal for use on water sources with pressures below 40 psi such as private wells, gravity feed water systems and high-rise apartments. A pressure gauge is used to monitor the booster pump pressure.

ADDITIONAL FLOAT VALVE KIT (SPFK) - Add a second or multiple float valves to your existing system.

STORAGE

1. It is recommended that you store your RO System in a cool and dark place when not being used.
2. Your RO System must always be protected from freezing or temperatures above 113˚ F (45˚C).

REPLACEMENT PARTS:

Part Number	Description
SF-MT-1-10	1 micron Sediment Prefilter
CF-1-10	1 micron Carbon Block Prefilter
DI-SB-CI-10	Standard SilicaBuster DI, Color-Indicating
MEM-0090	90 gpd/340 lpd TFC Membrane (Use 2 for 180 gpd systems)
FR-90-RED	Flow Restrictors for 90gpd/340 lpd System
FR-180-RED	Flow Restrictors for 180 gpd/681 lpd System

UPGRADE PARTS:

Part Number	Description
SF-0.5-10	High-Performance 0.5 micron Sediment Filter
CF-MT-0.5-10	High-Performance 0.5 micron Carbon Block Prefilter
DI-SB-CI-10HC	SilicaBuster Extended Life Super DI, Color-Indicating
MEM-SP-0090	90 gpd TESTED SpectraSelectPlus 99% TFC Membrane (Use 2 for 180 gpd systems)

ACCESSORIES:

Part Number	Description
MTR-TDS-EZ	Handheld TDS Meter
MTR-TDS-DM1	Inline Dual-Probe TDS Meter
MTR-PH80	Handheld pH Meter
MTR-EC/TDS-C100	Handheld EC/TDS Meter
FAU-SNP	Quick Connect Faucet Adapter
TK-CL-10-KIT	Total Chlorine Test Kit
TK-CL-10TABS	10 Replacement Tabs for Chlorine Test Kit
BPHF-MO-115	115V Booster Pump Kit for 60,90,180 gpd Systems
BPHF-MO-230	230V Booster Pump Kit for 60,90,180 gpd Systems



Warning: SpectraPure does not recommend drinking deionized water.