

'Reach' 5 Stage RO/DI Cart - Electric

**The next generation of mobile
water purification for
window cleaning.**

**Congratulations on the purchase of your new
'Reach' RO/DI 5 Stage water purification
system.**

NEW MACHINE SETUP PROCEDURE

1. Unpack unit and inspect for any damage that may have occurred during shipping. (Any damages must be reported within 24 hours to shipping company and manufacturer.)
2. Be sure to inventory all items that were to be included with your order.
3. Your 'Reach' RO/DI Cart is shipped with the filters, membranes, and DI cartridges all preloaded into the machine to ensure proper installation.

OPERATION INSTRUCTIONS

STARTUP PROCEDURE

1. Check electrical connections for proper connection.
2. Connect water supply using a garden hose into the inlet of the sediment filter.
3. Open the waste water valve (located under the inlet) and the pure water valve (located on the end of the hose reel) hereafter referred to as the product hose.
4. Turn water supply on.
5. As water begins to flow out of waste hose (rear red hose), slowly close waste valve until a 1:1 ration is achieved, waste hose to product hose. **NEVER CLOSE THE WASTE VALVE COMPLETELY WHILE IN OPERATION. THIS WILL DAMAGE THE SYSTEM. DO NOT POWER ON SYSTEM WITHOUT ALL AIR PURGED FROM THE UNIT AS THIS WILL CAUSE DAMAGE TO THE SYSTEM.**
6. Turn on the pump/motor assembly by plugging in the electric motor. The pump has a built in bypass mode and when the product water is turned off, the system will still produce waste with a slight increase in PSI. **NEVER OPERATE YOUR SYSTEM WITH THE PSI ABOVE 200PSI**
7. Connect a pole to the fitting with valve at the end of the product hose. Open and close the ball valve to control the flow of water to the pole.
8. Your electric cart is capable of producing enough water to supply 2 poles. There is an auxiliary water hook up near the bottom of the left side of the system. To use this hookup, simply attach an auxiliary hose/reel and pole to this connection and open the valve.

SHUTDOWN PROCEDURE

1. Turn the pump/motor assembly switch to the off position.
2. Turn off the water supply to the unit.
3. Disconnect the water supply.

Flush the RO membrane for 10 minutes weekly.

To do so, simply open the needle valve on the front of the unit and let the water run through the waste hose.

MAINTENANCE

There are multiple gauges and instruments on your RO/DI cart that help you monitor the performance of the machine. The following is a recommended sequence of events to help ensure proper performance.

1. Check the gauges above the sediment and carbon pre-filters. The PSI readings should be within 15PSI of one another. If the PSI between the sediment and carbon filter is above 15 you should change the sediment filter.
2. If the PSI is still above 15 after changing the sediment filter then it is best to also change the carbon filter at that same time.
3. Your RO/DI cart is also equipped with a dual TDS monitor. This monitor measures the water quality coming out of the RO and the DI part of the machine.

4. The 1st reading your TDS meter gives is the water quality coming out of your RO membrane. It is important to monitor the water quality coming out of the RO so that you know how your system is performing. The RO membranes are rated to remove 95-98% of all TDS in the inlet water. If your membrane is not removing this level of impurities then it is best to replace them with a new membrane. The higher the level of impurities coming out of your RO membrane the less volume of water your DI will purify.
5. The 2nd reading your TDS meter gives is the water quality coming out of your DI and on to your pole. If the TDS rises above 000 it is best to replace the DI cartridge.
6. IMPORTANT: Your TDS meter is water resistant, not water-proof, so avoid getting water on the meter.
7. It is important to replace the filters and other components on your 'Reach' RO/DI cart with replacement filters from Reach Higher Ground.

REMOVAL AND INSTALLATION OF COMPONENTS

IT IS CRITICAL TO PURGE ALL AIR OUT OF THE SYSTEM AFTER REPLACING ANY FILTER ON YOUR 'REACH' RO/DI CART. IF THIS IS NOT DONE YOU RISK DAMAGING THE SYSTEM.

PREFILTER CARTRIDGE INSTALLATION:

Filter Location: When facing the unit from the front, your sediment filter is located on the left of the unit.

The 5 micron sediment filter is the first filter the feed water goes through. It goes in the housing on the left side, next to the water supply hose inlet fitting.

The carbon block filter cartridge is located on the right side of your unit.

1. Slide the filter housing wrench up from the bottom of the big gray housing and turn counter clock wise to loosen. Remove tool and spin housing completely off.
2. Remove old filter and replace with new filter. Be sure to remove plastic wrapping from the filter before installing.
3. Screw housing into base and lightly tighten with wrench.

DEIONIZATION RESIN CARTRIDGE INSTALLATION:

Resin Cartridge Location: When facing the unit from the rear, the resin cartridge is located on the right.

BEFORE REMOVING OR TAMPERING WITH RESIN CARTRIDGE, ENSURE THERE IS NO PRESSURE BUILDUP IN THE HOUSING.

1. Using your fingers, remove the white plastic ring on top of the pressure vessel.
2. Rock the top back and forth to unseat cap. Lift up and remove cap and o-ring.
3. Remove the resin cartridge from the housing and insert new resin cartridge in its place.
4. Push the resin cartridge down to ensure it is properly seated.
5. Firmly press cap down into top of housing until it is seated.
6. Replace white plastic ring into groove.

RO MEMBRANE INSTALLATION:

RO Membrane Location: When facing the unit from the rear, the RO membrane is located on the left.

BEFORE REMOVING OR TAMPERING WITH RO MEMBRANE HOUSING, ENSURE THERE IS NO PRESSURE BUILDUP IN THE HOUSING.

1. Using your fingers, remove the white plastic ring on top of the pressure vessel.
2. Rock the top back and forth to unseat the cap. Lift up and remove cap and o-ring.
3. Remove the RO Membrane from the housing and insert new housing in its place.
4. It is important to insert the RO Membrane with the white rubber seal towards the bottom.
5. Push the RO Membrane down until it is properly seated.

Firmly press cap down into top of housing until it is seated.

6. Replace white plastic ring into groove.

WINTERIZATION

To store your system for the winter you need to drain the filters and housings.

Any alterations to your system or failure to use RHG approved filters in your system will void its warranty.

