

**J.Racenstein<sup>®</sup>**  
**ProTool** →



**Hydrosphere Innovation**  
**3 Stage RO/DI Cart**



● Mobile RO/DI water purification Cart

● Layout



We want to thank you to have purchased the Eco-Cart 3 stage system. This system was built with in mind to equal or surpass the systems actually on the market at a fair price. The system is based on an 100% aluminum or Stainless steel frame that will not rust assuring you a long life of use.

### New Machine Setup Procedure

1. Please unpack unit and inspect for any damage that may have occurred during shipping.
2. Any damage or missing components must be reported in the week following the purchase

## **Operation**

1. Hook up a  $\frac{1}{2}$  or  $\frac{5}{8}$  garden hose from the water spigot to the system inlet (Sediment-carbon Prefilter)
2. You may wish to attach a hose to the waste hose fitting at the bottom of the system to divert the flow to landscaping, flower bed, grass area or other appropriate run-off area.
3. Have the cart setup on its side and aim the bottom waste water output hose toward some the landscaping, flower bed, run-off area.
4. Turn the side valve left and onto the waste position then turn on the water from the spigot. Let run about 4-5 minutes to break in the RO membrane.
5. Then turn the valve fully right position to minimal waste. A smaller amount of water will still be coming out of the waster outlet port. This is normal.
6. System is now ready to have a waterfed hooked up. Your pole should come with pole tubing and a suitable fitting to hook up to the system outlet of the Eco-Cart DI Housing

The Eco-Cart have a convenient pressure gauge to give you immediate feed back as to how much water pressure is coming out of the source of water spigot and into the system. Great if you need to troubleshoot down the road.

Target pressure for the gauge is 80 to 90psi, if you have more pressure than this you may open the waste

You can clean all day long with the valve in the minimal waste position

At the end of the day.

It is recommended that you run the system again in full waste mode also know as Flush mode to push out the majority of collected minerals from the RO membrane. 3-4 minutes is all that needed

## **Maintenance:**

### **●5 microns sediment & Carbon Filter**

Change out the prefilter filter every 2-3 month, 2 month in heavy use

This carbon filter protects the more expensive RO membrane from Chlorine and physical particles in the water source like rust, sand or other debris.

If the system ever seems to have a strange drop in water output, this filter is usually the culprit.

### **●DI Resin Cartridge**

Change out the DI Resin Cartridge when the system is outputting water with a TDS level of 10 or above.

Replacement DI Cartridges are available for an easy swap.

Bulk DI resin can be used to refill the canister as well.

### **●RO Membrane**

The RO membranes can last 2 or more years depending on the hardness of the source of water in the area. Maybe much longer in