

*X-ION***MAX**_{RO}

*X-ION***MINI**_{RO}

WATER PURIFICATION SYSTEMS





Front View

2x 40in Reverse Osmosis Membranes

1x 5L De-Ionising Resin Tank

Dual Outlet for 2 Operators

Waste Water connection with on/off Tap

Bypass Connection with on/off tap



Rear View

2x Shurflo 12v Booster Pumps

Pure and Waste float meter with waste control knob for flow control

Dual Inlet Filters - Sediment & High Quality Carbon Chloramine Reduction Filter

Dual TDS Meter - Measures Input TDS & RO Output

Water supply inlet with built in TDS Probe

Anderson Plug for Battery Connection



Front View

2x 21in Reverse Osmosis Membranes

2L De-Ionising Resin Canister

Outlet for Single Operator

Waste Water connection with on/off Tap

Bypass Connection with on/off tap

Rear View

**Scintex 12v Booster Pump
with Heatsink**

**Pure and Waste float meter with
waste control knob for flow control**

**High Quality Carbon
Chloramine Reduction Filter**

**Dual TDS Meter - Measures
Input TDS & RO Output TDS**

**Water supply inlet with built in
TDS Probe**

Anderson Plug for Battery Connection



Unpack/first look:

- **Unpack unit and inspect for any damage during shipping.**
- **Any damage or missing parts must be reported as soon as possible.**

First filtration use:

- **Attach all hoses to the system,**
 - **Water supply to the side mounted Inlet**
 - **Hose for waste water dispensing**
 - **Pole Hose or Hose reel to Outlet**
- **Switch on water supply, make sure the waste valve is fully opened (rotate valve knob anti-clockwise)**
- **Leave the system to flush approx. 20 min, with valve fully opened.**
- **After approx. 20 min you can start decrease the waste flow.**

Using the system

- Connect water supply, turn on water and slowly close the waste valve on flow meter until pure water starts flowing. Do Not close waste valve completely
- Connect battery or power supply to power on pumps
- Slowly decrease the waste flow to approx 1/2 of the pure water flow (eg. 4L/pm Pure - 2L/pm Waste)

NEVER FULLY CLOSE THE WASTE VALVE

This will block your membranes
and overload your pump/s,
Doing this will **VOID** your warranty.

- After finishing the job, turn off or disconnect power supply to pumps.
- Open the waste valve fully for approx 5-10 mins to flush impurities from membranes. When the waste water TDS level is similar to the supply TDS, your flush is complete. Doing this will ensure your membranes will last a long time.

Maintenance

It is important to monitor the TDS levels often, this is to keep the system running without leaving spots on the glass.

When final TDS level rises to more than 0020ppm it is time to change resin. If TDS is equal or more than RO TDS, the resin needs changing.

Pre filter cartridge needs to be changed every 3000L

Resin change:

- **To remove the vessel from its bracket, loosen the two screws from the "O Clamp" holding the DI Tank**
- **Carefully remove the black tube from the tank head, by disengaging the Push Fit Fitting using the supplied 1/2in push fit tool. You will now be able to remove the Tank from the unit**
- **Unscrew the tank head and carefully remove the riser tube and head assembly.**
- **Pour out the old resin and rinse the inside of the tank and the riser tube/head assembly**
- **Fill the tank with fresh Mixed Bed resin to around 90%, this is to allow room for the riser tube. Filling the tank with water also will help to insert the riser tube.**
- **Ensure riser tube goes into resin plumb so the thread does not cross-thread when tightening.**
- **Carefully screw the vessel head back on, make sure to lubricate the seal with Vaseline or similar lubricant to allow the seal to slip when tightening, this is to prevent damage to the seal.**
- **Install the vessel in its bracket, and connect the hoses.**

Pre filter change:

- Change Filter Every 3000L, Depending on water source**
 - Unscrew the clear body of the prefilter housing**
 - Remove the used pre filter cartridge**
 - Install the new prefilter cartridge. Carbon Chloramine Reduction Filter for X-ION Mini. Sediment and Carbon Chloramine Reduction Filter for X-ION MAX**
 - Screw the clear filter housing back in place. Only tighten by hand**
- Only use the same pre filter cartridge, Carbon Chloramine 10", to keep the system warranty**

RO membrane change:

The RO membranes will last for approximately 2-4 years with proper operation and maintenance

If you have any questions, you can contact us at -

Email: helpdesk@windowcleaningworld.com

Phone: 02 8005 4200

**Thank you for choosing
X-ION**