

ProTool

PROTOOL
ECO
LIGHT
CART
STAINLESS
STEEL



10"



20"

FILTER LOCATIONS

**** NOTE ****

10" and 20" carts are identical except filter size.

RO FILTER

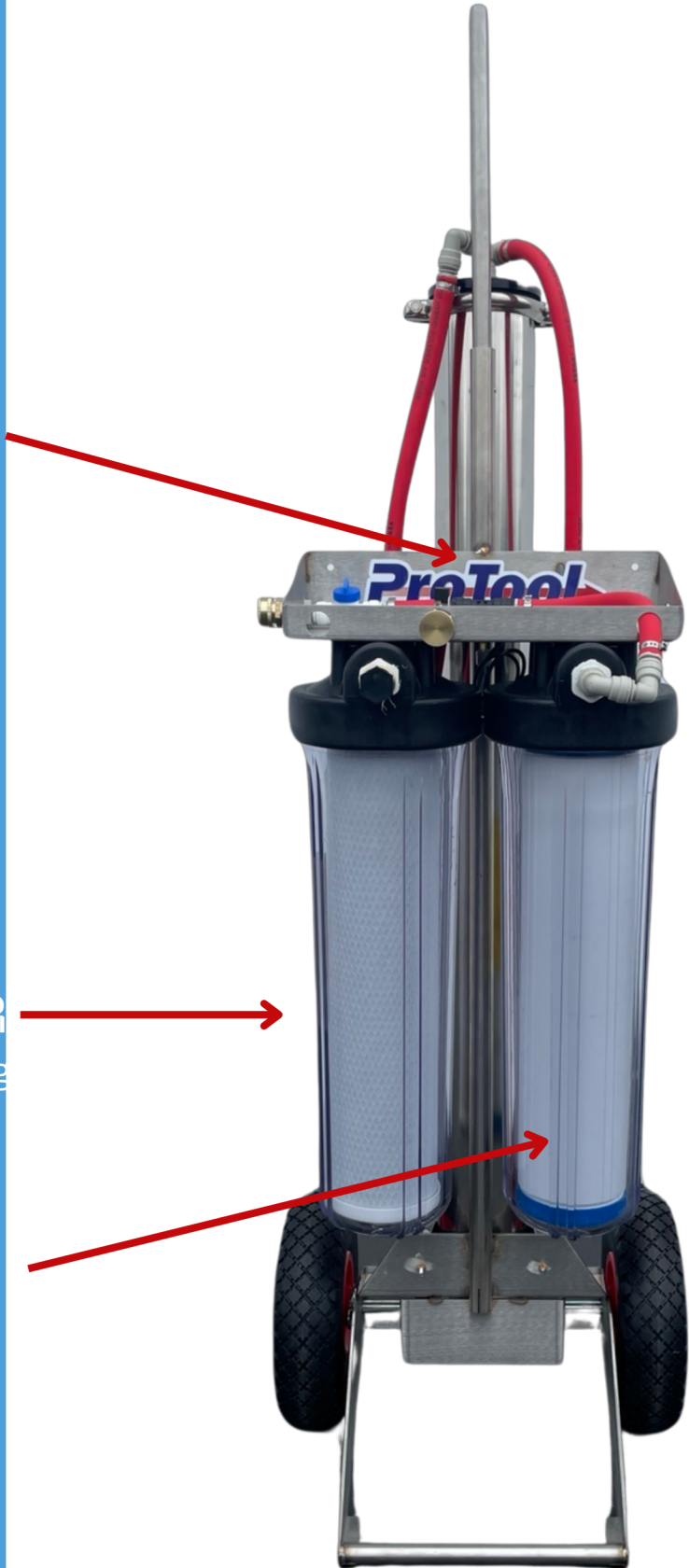
Life expectancy is 5 to 7 years, when the carbon filter is changed twice per year and RO Flushing is done at beginning and end of the job.

CARBON FILTER

We recommend changing the filter twice per year

DI FILTER

This filter should be changed when the TDS Meter is measuring RODI water output and the reading rises above 10 TDS



WATER INLETS AND OUTLETS

PURE WATER ON/OFF VALVE

Easily turn off the pure water to the pole

WATER OUTLET

Pure Water Out

TDS METER

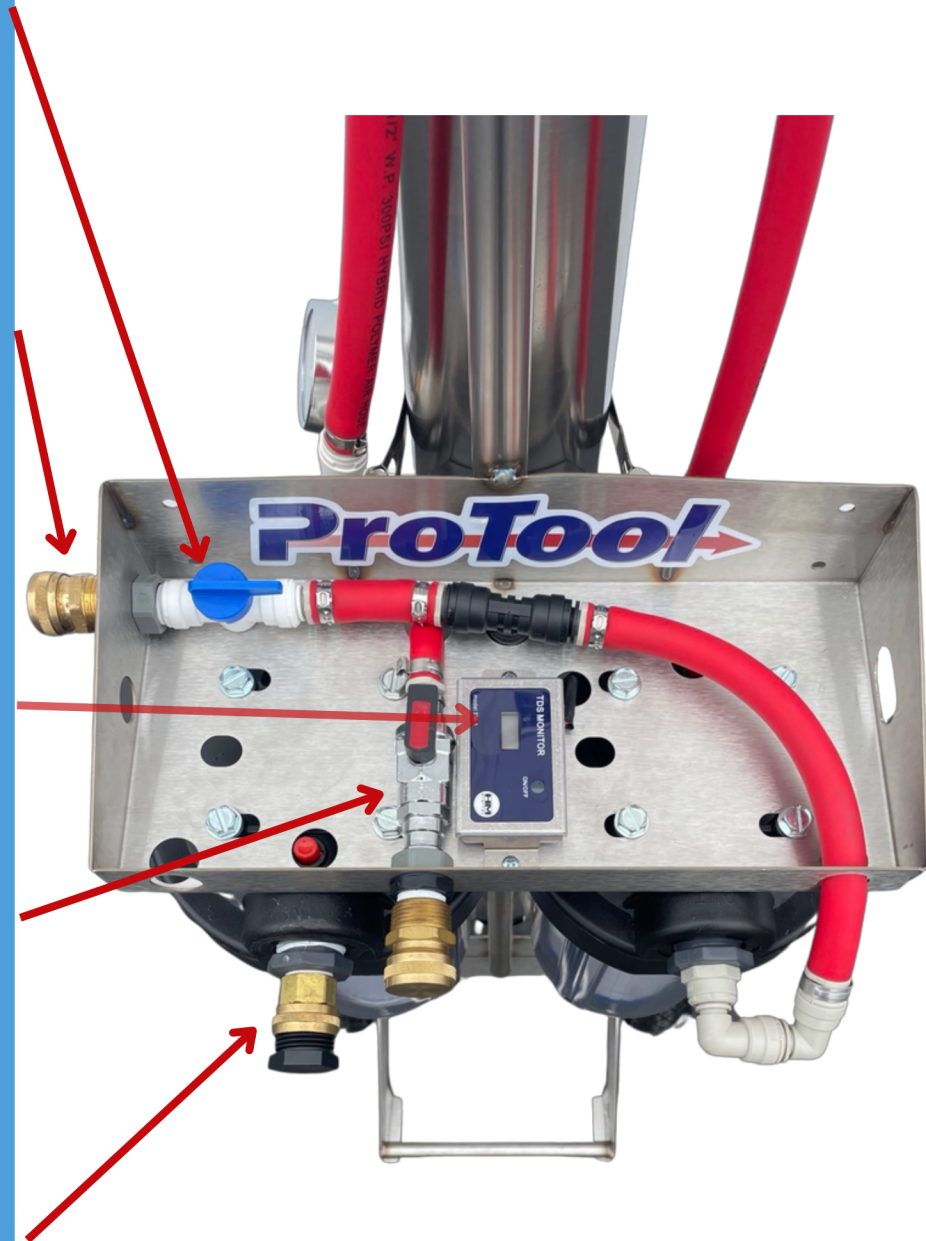
Built in TDS meter

RO FLUSH VALVE

Open for 30 seconds plus at the beginning of use and at the end of the job

WATER INLET INTO CARBON FILTER

Inlet water pressure should be greater than 60psi, check the gauge





Remove all caps prior to cleaning

Garden hose caps and plugs are for shipping and storage.
Remove all caps when producing pure water and cleaning.

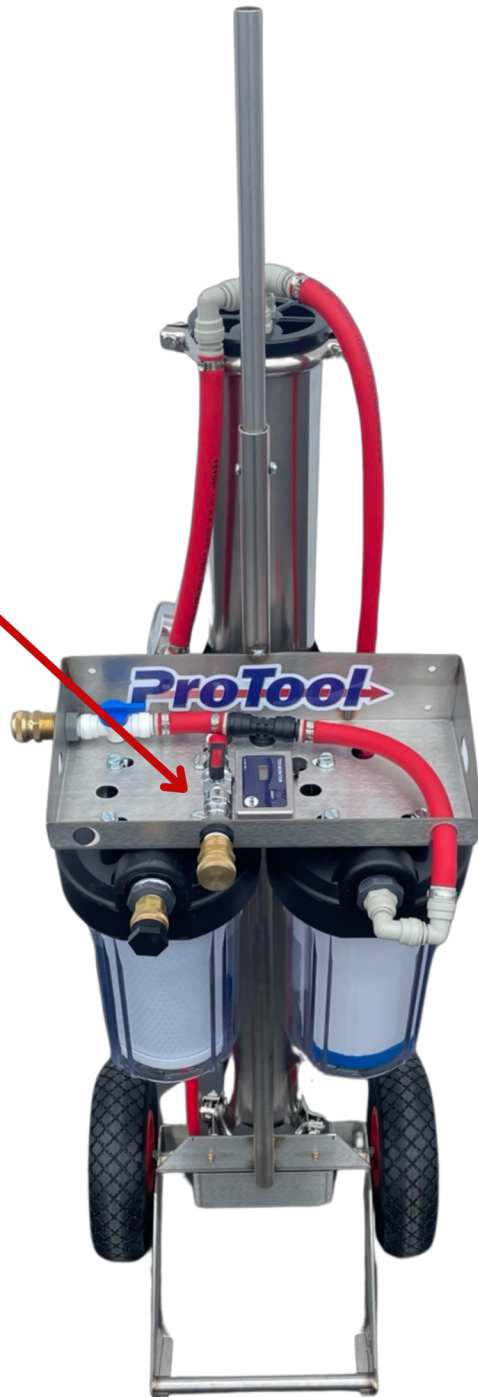
Caps can be replaced when

START OF JOB INSTRUCTIONS

1. Remove **ALL** Caps/Plugs from the garden hose fittings
2. Connect Water-fed pole.
3. Connect tap water.
4. Flush RO for 30 seconds.
5. Close valve and turn into production mode.
6. Ready to clean.

END OF JOB INSTRUCTIONS

1. Open RO waste/flush valve.
2. Wait 2-3 minutes.
3. Turn off tap water
4. Put away/reel hoses.
5. Place caps on both male garden hose fittings and the female garden hose fitting for storage and transport.



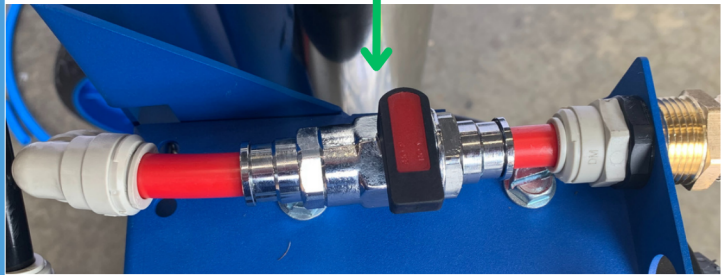
FLUSHING INSTRUCTIONS

1. Open the RO flush valve
2. Let water run for 30 seconds (start of job)
3. Let water run for 1-2 minutes (end of job)
4. Close valve and turn into production mode. (start of job)
5. Turn of water source (end of job)

CLOSED Production Mode

Valve is closed, the system in production and sending RO water to the choice valve.

When Closed
A small amount of water will pass through to help extend RO Membrane life.
Run this water to a flower bed or a drain



OPEN Flush Mode

Valve is open, the system is flushing.



TDS METER

The Inline TDS meter gives you TDS readings in real time for both operating modes.

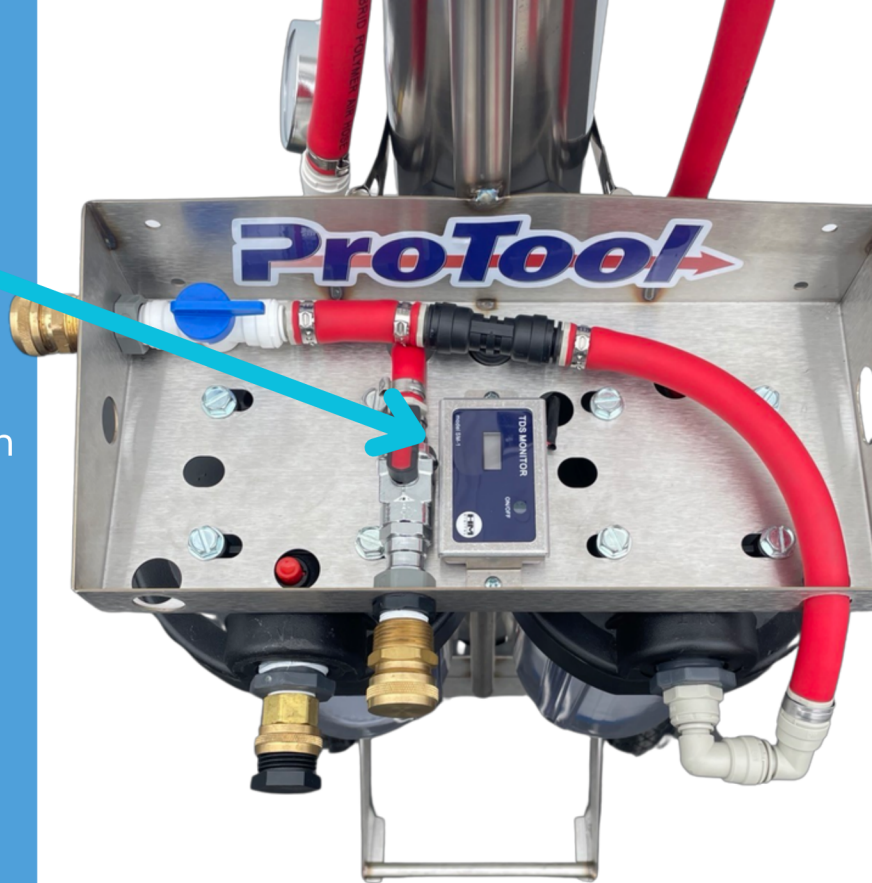
Hit the on/off button and the TDS reading will automatically start. (water flow is needed)

The TDS reading is dependent on which mode you are running.

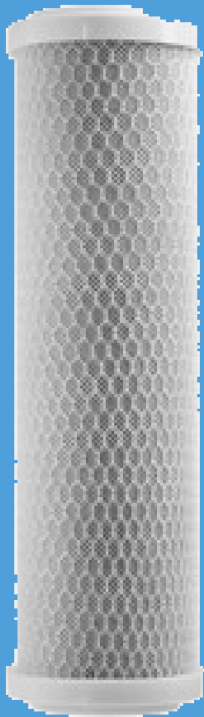
In RO mode, you are looking for 5-10% of incoming TDS

- IE: Tap TDS = 200
 - RO TDS = 10-20

In DI mode, you are looking for 0 ppm.



REPLACING CARBON FILTER



1. Using the black housing wrench, loosen the housing just enough that you can turn it by hand.
2. Using your hands loosen and remove the housing.
3. Lift up on the carbon filter to remove.
4. After removing all wrapping from new carbon filter, place carbon filter into housing. Make sure it is aligned in the center.
5. Filter should rest on a centering knob on the bottom.
6. Make sure the o-ring is secure in the plastic housing channel. Flat side down.
7. Thread the plastic housing into the black housing cap on the left side of the filter. Inlet side (left when looking at front of cart)
8. Hand tighten the plastic housing.
9. Use the black housing wrench to tighten the housing further.

Video instruction at this url:
<https://youtu.be/HPR-fXXHoK8>

The Video can also be found on the product page of the website

REPLACING DI RESIN

1. Using the black housing wrench, loosen the housing just enough that you can turn it by hand.
2. Using your hands loosen and remove the housing.
3. Remove the blue/white container. Open the top and remove the solid foam filter.
4. Empty the contents of the container into a disposable container. Ensure the donut shaped foam filter remains in the bottom of the container.
5. Cut open the corner of a DI resin bag. Pour the contents into the container.
6. Gently shake/tap the container on the ground to let the DI resin settle in the container.
7. Fill the container until full.
8. Replace the top foam filter and the blue lid. Tighten lid.
9. Place the blue/white container in the other clear plastic housing.
10. Thread the housing into the right plastic cap (when looking at the front)
11. Hand tighten the plastic housing.
12. Use the black housing wrench to tighten the housing further.



MAINTENANCE DIRECTIONS + TIPS

1. The most important thing is to keep the RO healthy.
 - a. Replace the carbon filter
 - i. Every 12 months minimum.
 - ii. Every 6 months if you use this system everyday 6-8 hours a day.
 - b. Flush your system.
 - i. When you start your system, flush the RO for 30 seconds.
 - ii. When you are done at the job, flush the RO filters for 2-3 minutes.
 - c. Run water every two weeks.
 - i. Do not let the system sit.
 - ii. Make sure to run water for 10 minutes and flush the RO's for 2-3 mins at least twice a month.
2. Stay ahead of filter replacements.
3. Keep a spare pump (if applicable) and DI resin incase of emergency.



TROUBLESHOOTING

1. Not enough flow?
 - a. Ensure tap water pressure is good.
 - b. Ensure pressure gauge is reading around 60 PSI or higher.
2. DI resin is being used too quickly.
 - a. Check the TDS coming out of the RO (blue hose). Make sure the RO is removing 90% of the tap water TDS.
 - i. Turn the RO Choice Valve to RO Mode. Run water and test the TDS.
 - b. Check tap water TDS. High TDS areas will use more resin, even after RO.
 - i. IE: 200 TDS vs 1000 TDS incoming is 5 x more resin. (20 vs 100 RO), even when the RO is working.



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