



# PRO SERIES

## Portable Reverse Osmosis

### OPERATING MANUAL

#### WARNINGS

1. DO NOT stop the flow of waste water. Reverse Osmosis systems create waste water in the process of making RO water.
2. DO NOT stop the flow of RO water. You may restrict the flow to increase spray pressure but do not stop the flow altogether.
3. DO NOT let the pump run dry. Line pressure water must be supplied to the system before and during operation.
4. The system is preset at the factory to discharge 2.0 gallons per minute to the waste stream. The balance of the feed water becomes RO water. For example:
  - a. Four gallons per minute feed water will yield 2.0 gallons per minute of waste water and 2.0 gallons per minute RO water.
  - b. Five gallons per minute feed water will yield 2.0 gallons per minute of waste water and 3.0 gallons per minute RO water.
  - c. Four to four and a half gallons per minute feed water is optimal.
5. Use only with a GFCI (ground fault circuit interrupter) power source.

#### OPERATING INSTRUCTIONS

1. The system may be operated in the horizontal position or in the vertical position. It is recommended to operate in the horizontal position to avoid a tipping hazard.
2. CONNECT your water supply via a standard garden hose. Supply should be minimum of 4-5 gallons per minute and must have positive pressure.
  - a. The feed water directly effects the system output.
3. CONNECT a short garden hose to the waste port to carry waste water away from where you are operating the system.
4. CONNECT the hose you will be using for clean RO water.
5. SLOWLY turn on the water source.
6. FLUSH the system for 5 minutes before use. There should be water coming from both the waste hose and the RO hose.

7. PLUG the power cord into a GFCI 115 volt electrical outlet.
8. START the system with the switch on the back of the shroud/housing.
9. The system is equipped with a flow restrictor on the waste stream. This limits the waste to approximately 2.0 gallons per minute and applies appropriate back pressure on the membranes to produce RO water. The system should yield about 50% recovery which is appropriate for this system. Actual water production will depend on the feed water flow and pressure, temperature, and pre-filter condition.
10. The system should not be operated using a self-closing hose handle or spray nozzle. If the flow of RO water is stopped, damage to the system and components may occur. It is okay to use a spray nozzle that does not stop the flow of RO water.



REMINDER – The PRO Series is not a high-pressure washer.

When you are finished using the system,

11. TURN off the system with the switch on the shroud/housing.
12. FLUSH the system with feed water for 2 minutes.
13. TURN off the water source.
14. UNPLUG the power cord.
15. DISCONNECT all three hoses.
16. PLACE the system in the vertical position as shown below.
17. ALLOW excess water to drain from the system for a moment.

## MAINTENANCE

1. ESTIMATE gallons used to determine when to change the carbon cartridge.
  - a. Typical city water supply is approximately 5 gallons per minute or 300 gallons per hour. The carbon cartridge capacity is approximately 5,000 gallons. Change carbon cartridge after every 16 hours of use (5,000 gallons capacity divided by 300 gallons per hour)
  - b. DO NOT operate the system without a carbon cartridge in place. City water contains chlorine which can damage the membranes. Carbon filters remove harmful chlorine.
  - c. Order the Carbon Block Cartridge at [www.skwatermakers.net](http://www.skwatermakers.net)

## 2. MEMBRANES

- a. Under normal operating conditions, the membranes should last 3-5 years, depending on frequency of use, storage conditions, water conditions, and temperature.
- b. NEVER let the system freeze. In winter months, store the system in a heated environment, or remove the membranes and store them sealed in plastic in a heated environment.
- c. SK Watermakers recommends a trained service technician remove or replace the membranes in the system. If you want to perform this work yourself, please see the video on the SKWatermakers channel on YouTube – Changing a Membrane with Darryl.
- d. Order membranes by calling SK Watermakers 941-257-2036

## WARRANTY

SK Watermakers warrants machine workmanship and parts for one year from the original date of shipment, with the exclusion of the membranes – there is no warranty on membranes.

All shipments must be inspected within 7 days of receipt and SK Watermakers needs to be notified as soon as possible of any shipping issues. All shipments are FOB Jacksonville, FL and it is the

customers responsibility to file any claims with freight companies. SK Watermakers will assist in such claims to the best of our ability.

Any warranty claim for workmanship or parts must be approved in advance by SK Watermakers before any disposition is determined. Customer is responsible to return any part that may be eligible for warranty reimbursement or replacement. SK Watermakers does not pay for repair services without authorization.