

REVERSE OSMOSIS (RO) is one of the most convenient and economical methods of reducing unwanted contaminants in your drinking water. The HRO-450Q and HRO-550Q Reverse Osmosis system provides 50 gallons per day (GPD) of clean, clear, refreshing drinking water for residential and light commercial use.

REVERSE OSMOSIS is the process by which water molecules are forced by water pressure through a semipermeable membrane, and causing most of the impurities and other contaminants to be rinsed to the drain while the refined water is routed to a special holding tank. The Thin Film Composite (TFC) reverse osmosis membrane rejects a high percentage of impurities to bring you the most advanced RO technology at an affordable price.



PRODUCT FEATURES

- Quick Connect Hydrofit™ Fittings
- Assembled with NSF Components: Filter Housing, Membrane Housing, Cartridges, Faucet, Fittings & Tubing
- Available with optional Booster or Permeate Pump
- Filter Wrench & complete installation kit included
- TFC Membrane element
- High quality Pre and Post Filters
- HRO-450Q: 4 stage model
- HRO-550Q: 5 stage model
- 100% Wet tested

INSTALLATION KIT INCLUDES

- **HSWNV-2** Adapter - 1/2" F x 1/2" M x 1/8" F (1 pcs)
- **HSFW-1** Wrench - For Slim Filter Housing HF2/3 (1 pcs)
- **HSDS-14QC** Drain Saddle - 1/4" Quick Connect, Black (1 pcs)
- **HSBV-1414MC** Ball Valve Straight - 1/4" MPT x 1/4" C Comp (1 pcs)
- **HSHDF-BVT0404** Tank Ball Valve - 1/4" Tube x 1/4" Female NPT (1 pcs)
- **HSPT04-WH** White Tubing (10 Ft)
- **HSPT04-BK** Black Tubing (3 Ft)

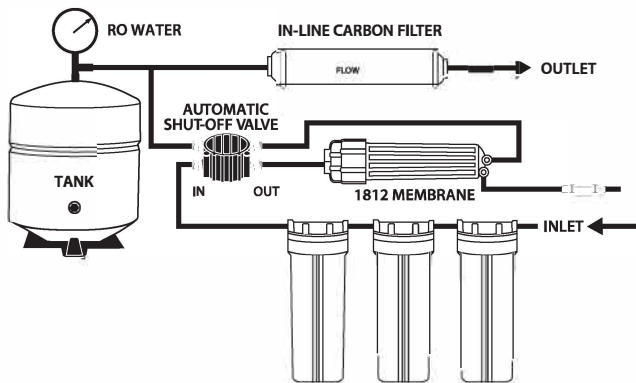
** Tank Sold Separately*

PRODUCT SPECIFICATIONS

Daily Production Rates: Tank	50 GPD
Capacity:	4.5 Gallons (3.2 Usable)
Recovery Rate:	1:4 Product Waste
Nominal Salt Rejection:	98%
Operating Pressure:	40 - 80 PSI
Operating Temperature:	40 - 100 °F
Water Hardness:	< 120 PPM (7 GPG)
Ph Range:	3 - 11
TDS:	< 1000 PPM
Shipping Box Dimensions:	18" x 18" x 18"
Replacement Membrane:	HTW- 1812 - 50



FLOW CHARACTERISTICS



INSTALLATION GUIDELINES

WARNING: READ THESE INSTRUCTIONS BEFORE CHANGING OR INSTALLING. FOLLOW THESE INSTRUCTIONS TO REDUCE RISK OF DANGER.

CAUTION: Filter housing must be protected against freezing and extreme temperatures. Filter housings should not be in direct contact with sunlight for a prolonged period of time since UV rays can make housings brittle. Pressure should always be measured before installation and water pressure regulators should be installed in the main line or in front of the housing if water pressure exceeds manufacturers' maximum water pressure: 75 psi. Installers should make sure filters and replacement filters are the correct length and are not too long so as to not cause undue strain and stress on the housing. A leak detector must be installed on all installations where high pressure, water hammer and pressure spikes are known or suspected to be present and on all installations where pressure is over 60 psi. Failure to the above may result in cracking of the filter housing, water leakage and water damage.

CAUTION: All filtration systems contain other parts that have a limited service life. Exhaustion of the service life of those parts often cannot be easily detected. Commonly, it is only after leakage has been observed or water damage has occurred that one is made aware that the service life has been exhausted.

IMPORTANT NOTICE: To prevent costly repairs or possible water damage we strongly recommend that the bowl or sump of all plastic housings be replaced periodically: every 5 years for clear sumps, and every 4 years for opaque sumps. If your sump has been in use for more than the recommended period, it should be replaced immediately. Be sure to date any new or replacement sump for future reference and indicate the next recommended replacement date.

WARRANTY: Limited three (3) year warranty from the date of sale for material defects only. Warranty is limited to repair or replacement of product only. Any misuse, misinstallation, lack of maintenance, exceeding maximum pressure or failure to follow these instructions will void limited warranty.

DISCLAIMER OF WARRANTIES: Except as expressly warranted in writing by Hydrosphere Technologies, LLC™, the goods sold by Hydrosphere Technologies, LLC™ are purchased by the buyer "as is". Hydrosphere Technologies, LLC™ does not warrant that the goods are of merchantable quality or that they can be used for any particular purpose. Except as expressly warranted in writing by Hydrosphere Technologies, LLC™, Hydrosphere Technologies makes no representation or warranty of any kind with respect to the products.

LIMITATION OF LIABILITY: In no event shall Hydrosphere Technologies, LLC™ be liable to the purchaser or any other entity for more than the invoice price received by Hydrosphere Technologies, LLC™ for any non-conforming products. Hydrosphere Technologies, LLC™ shall not be liable to the purchaser or any other entity for personal injury, property damage, or any direct, indirect, special, incidental, consequential, punitive, exemplary, or other damages of any kind, including without limitation the cost of procurement of substitute goods, the loss of profits, products, or production, or the interruption of business, however caused and on any theory of liability, and whether or not Hydrosphere Technologies, LLC™ has been advised of the possibility of such damages. The essential purpose of this provision is to limit the liability of Hydrosphere Technologies, LLC™ arising out of the sale of products to the purchaser whether for breach of contract, negligence, or otherwise. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy and notwithstanding the provisions of any other agreement between Hydrosphere Technologies, LLC™ and the purchaser.