

**Solar Water Purifier: 4F-100
Deluxe 5 Stages Reverse Osmosis
Water Purification System**



5 Stage Reverse Osmosis Water Purification System.

The Water General RO585A reverse osmosis water purification system is one of the best values in its class. It uses no chemicals or electricity and provides premium water quality. We continue to support this model with [replacement filters](#).

Reverse osmosis purification improves both the taste and quality of your water. It reduces up to 99% of the chlorine, as well as objectionable odors and sediment. Reverse osmosis water filtration also reduces the following hard water contaminants that may be present in your water: lead, copper, barium, chromium, mercury, sodium, cadmium, fluoride, nitrite, nitrate, and selenium.

This system hides away under your sink and puts healthy great-tasting water at your fingertips. It meets all your water quality needs at a fraction of the cost of bottled water; it costs just pennies a gallon to operate. Compare that to the price of bottled water! And you don't have to carry home those heavy bottles of water. Replaceable cartridges last up to 1 year or 1000 gallons.

The undercounter water purifying unit is easy to install (usually takes around 1 hour if you've never installed one before). The system comes complete with a space-saving, 4-gallon storage tank and all the necessary fittings, including a long-reach chrome faucet. For cold water use only. Maximum water temperature is 100 degrees F. Maximum water pressure is 120 psi; minimum water pressure is 40 psi (if below 40 psi, a booster pump is needed). Maximum Water Flow is 1 gallon per minute.

Not for use where water is microbiologically unsafe or with water of unknown quality without adequate disinfection before or after the unit.

The filter unit measures 16"H x 15"L x 5.5"D and weighs 12 lbs.; tank is 15.25" high and 10.75" in diameter and weighs 9 lbs. Four of the filters should be replaced annually and come packaged conveniently in one kit (item 60477K, available below, includes filters for stages 1, 2, 3, and 5). The other filter, a thin film composite TFC membrane, should be replaced every 2-3 years. Filters and membranes are NSF listed to ensure high quality and performance.

The Water General reverse osmosis system is association for meeting S-300 performance, material, and construction standards. Two year mfg. warranty. All filters, hardware, and installation/instruction manual included (hardware includes feed water adapter, feed water valve, drain saddle valve, tank valve, and screws). Available separately:

Information about the 5 stage process for those who like *ALL* of the details:

Stage 1 Sediment Pre-Filter: A pre-filter sediment cartridge is utilized, which because of the fine micron rating, is effective in removing dirt and sand particles.

Stage 2 Initial Carbon Pre-Filter: The high quality carbon pre-filter provides enhanced reduction of taste, odor, and color.

Stage 3 Secondary Carbon Pre-Filter: This secondary carbon pre-filter provides effective filtration and does not release carbon dust. It provides for improved membrane performance.

Stage 4 High Capacity Reverse Osmosis Membrane: A thin film composite (TFC) high quality membrane that can process up to 85 gallons per day.

Stage 5 Final Carbon Post-Filter: This filter provides final polishing of processed water leaving the storage tank. Improves taste of water.

System can be enhanced with a UV light sterilization system (see second from top related product at right).

Note: This RO system is also available with an electric booster pump. A booster pump should be used when feed water pressure is below 40 psi. Available below in either 110V or 220V.

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**CWR 5 stage NSF reverse osmosis
 50 gallons/day RO water treatment system**



5 Stage RO Water Treatment System - - The 5 stage reverse osmosis system from CWR Environmental is NSF certified and has several unique features including a tough TFC membrane, which removes more contaminants than other water treatment systems. Single-piece manifold eliminates many hose connections for greater flow. This system produces 50 gallons/day of high-quality, pure, great-tasting drinking water.

Reduces the following contaminants:

calcium, sodium, magnesium, perchlorate, potassium, manganese, iron, aluminum, copper, cadmium, silver, mercury, chloride, ammonium, bromide, cyanide, sulfate, nitrate, borate, fluoride, chromate, lead, radioactivity, polyphosphate, orthophosphate, silica, and boron.

HOW REVERSE OSMOSIS WATER TREATMENT WORKS: Osmosis is the process of water passing through a semi-permeable membrane to balance the concentration of contaminants on each side of the membrane. A semi-permeable membrane is a barrier that will pass some particles, pure water, for example, but not other particles such as arsenic and lead. Reverse osmosis uses a semi-permeable membrane. However, by applying pressure across the membrane, it concentrates contaminants (like a strainer does) on one side of the membrane, producing crystal clear water on the other. Consequently, RO systems produce both pure drinking water and waste water that is flushed from the system. This reverse osmosis system also utilizes carbon block filtration technology and can therefore provide a higher quality drinking water than systems that rely only on carbon filtration.

Compact design for kitchen installation with easy connect fittings. 4.0 gallon metal storage tank. Single-piece manifold eliminates many hose connections for greater flow. Double O-ring design housing.

Operational Requirements The following operational parameters appear on page 4 of the product manual. (1) 40-80 PSI operation pressure. PSI less than 80 requires a pressure regulator. (2) Hardness should not exceed 10 grains per gallon (or 170 ppm). Excessive hardness will shorten membrane life. (3) RO water should not be run through copper tubing, as the purity of the water will leach copper and cause an objectionable taste in the water and may cause pin holes.

Consists of the following filters. Stage 1 sediment filter (recommended change 6 months); this 5-micron sediment filter traps sediment and particulate matter such as dirt, silt, and rust that affect the taste and appearance of your water. Stage 2 and Stage 3 carbon filter (recommended change 6 months); these 5-

micron carbon block filters help reduce chlorine and other chemicals/contaminants that cause bad taste and odor. Stage 4 membrane (recommended change 1 year); the RO membrane is the workhorse of the system. This semi-permeable membrane takes out total dissolved solids, sodium, heavy metals, and cysts such as giardia and cryptosporidium. Stage 5 post carbon filter (recommended change 6-12 months); the final stage is an in-line granular activated carbon. This filter is used as a final polishing filter. Entire system is NSF
Main unit dimensions: 16"W x 5"D x 16"H. Tank dimensions: 11"W x 17"H. **Please measure the space available under your kitchen sink before ordering to make sure this unit will fit.** 1-year mfg. warranty. Per the manufacturer, this product **must be installed by a licensed plumber**; approximate installation time is 2 hours. CWR model POU-ROWP5.

UV light for RO systems and other water filter systems



UV sterilization system is specially designed for use with your water filtration system or RO system to treat water with biological concerns. The UV light should be connected to your systems just before the faucet as the final stage of the purification processes. 1 gallon/minute flow rate. Effectiveness: 99.9% destruction of bacteria, micro-organisms.