



RO & UV WATER PURIFICATION SYSTEM

## MODEL: GRO-060-UV

Six stage Reverse Osmosis Water Purification System designed for where feed water has very low water pressure or where the source water contains higher than normal amounts of dissolved solids.

### RO Offers safe, good-tasting water at your fingertips

It meets all your water quality needs. with 50/100 gallons of clear, refreshing water that is not only healthy to drink, but good for cooking. RO system provides safe, pure water using Reverse Osmosis Technology. It is one of the finest units in its class. It's capable of removing over 95% of total dissolved solids, +99% of all organics and +99% of all bacteria.

This system hides away under your sink and puts healthy great-tasting water at your fingertips. It meets all your water quality needs. Our RO comes complete with an NSF certified 3.2 gallons water storage tank and all the necessary fittings, installation kits, extra color 1/4" tubing, and a long-reach chrome faucet. We don't know of any other system at our price that can approach its performance.

### Features:

- RO with Ultraviolet (UV) System
- 3.2 Gallons NSF Standards Water Storage Tank.
- FDA Approved Polypropylene Made Flat Cap Housing.
- Flow Restrictor, and non return Valve.
- Feed water connector & deliver valve.

- Drain Saddle Valve.
- Four Color Coded 1/4 inch Tubing for System Connection
- Completely Assembled & Water leaking testing
- 100% Factory Tested and Sterilized Ready for Installation.
- Installation Instruction.

## Filtration Process:



### First Stage: Sediment Filter

The Sediment filter cartridge is manufactured from pure 100% polypropylene fibers. The fibers have been carefully spun together to form a true gradient density from outer to inner surfaces. It is effective in removing dust, mud, rust and sand particles.



### Second Stage: Granular Activated Carbon Filter

This granular activated carbon filter is composed of high-performance activated carbon that effectively reduces unwanted tastes, odor, organic contaminants, chlorine, pesticides and chemicals that contributed to taste and odor. It is designed to allow maximum contact between the water and carbon, ensuring maximum adsorption.



### Third Stage: Activated Block Carbon Filter

This block carbon filter is composed of high-performance Coconut Shell carbon using a patented process and made entirely from FDA-compliant materials that highly effective at reducing 17 hazardous metals: such as lead, radon, mercury, insecticides, odor and chlorine: taste & odor, from potable drinking water. The unique structure of the carbon block enables it to reduce Giardia, Cryptosporidium, amoeba, and Toxoplasma cysts and fine sediment particles down to 0.5 microns. It is an ideal choice for a wide range of residential, food service, commercial and industrial applications.



### Fourth Stage: Reverse Osmosis (RO) Filter

Reverse Osmosis utilizes the unique properties of a semi-permeable membrane to allow fluid to pass while restricting the flow of dissolved ionic material. With pressure applied to impure water on the side of such membrane materials, pure water will pass through, leaving most of the impurities behind. The rejection of the dissolved ionic material is a function of both molecular weight and ionic charge. For example, we can expect a nominal 90% rejection of sodium chloride, which means that the product water passing through the membrane will have a concentration of salt approximately one-tenth that of the feed water. The rejection of calcium carbonate (hardness) will be near 95%, while most metallic salts will be rejected at a rate of approximately 98% to 99%.

The rejection of non-ionic or organic material is primarily by mechanical filtration. Most substances with a molecular weight of over 100 will be completely rejected by an intact reverse osmosis membrane. Low molecular weight organics, such as formaldehyde or phenol, can pass freely through an R.O. membrane, as can most dissolved gasses. Oil, suspended solids and particulate matter are mechanically filtered, as are viruses, bacteria, pyrogen, and larger organic molecules.

To carry the rejected material away from the membrane surface, the feed side of the R.O. membrane is continually flushed with an excess flow, usually two to five times the product flow. This avoids clogging of the membrane surface and reduces the tendency toward scale formation.

Contaminants	Average Percent Reduction
Arsenic	99.99
Barium	98.90
Cadmium	99.60
Chromium (Hexavalent)	99.99
Chromium (Trivalent)	97.00
Copper	99.0
Cysts	100
Turbidity	98.50
Fluoride	97.9
Lead	99.99
Perchlorate	96.5
Total Hardness	100
Selenium	92
TDS	97

### Fifth Stage: Taste and odor Filter

This granular activated carbon filter is composed of high-performance activated carbon that effectively reduces unwanted tastes, odor, organic contaminants, chlorine, pesticides and chemicals that contributed to taste and odor. It is designed to allow maximum contact between the water and carbon, ensuring maximum adsorption. We are using NSF approved post carbon to guarantee the taste of water.

### Sixth Stage: UV System

Ultraviolet light (UV), a natural part of the sunlight is widely accepted as a reliable, efficient & environmentally friendly solution for water disinfection. This UV lamp utilize the application of particularly efficient UV radiator with a 254nm wave length to cause immediate death for organisms and wipe out their ability to survive and reproduce. 99.99% DESTRUCTION OF BACTERIA AND VIRUSES



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FOR GREENER TOMORROW