

WSG PREMIUM™

REVERSE OSMOSIS SYSTEM

This reverse osmosis system provides up to 100 gallons per day of high quality water. Reverse osmosis technology allows the homeowner to enjoy bottled water quality from the tap at a fraction of the cost and with none of the aggravation. An RO system can be serviced and maintained in less than 1/2 hour per year. You receive clear, refreshing water that is not only healthy to drink, but is good for appliances such as ice makers, steam irons, humidifiers, and car batteries. It's better for your pet's drinking water too.



FEATURES INCLUDE:

- The pre-filter utilizes a 1 micron gradient depth filter. This depth filter removes sediment such as silt, sand, and sludge which may be present in the water supply. The post filter adsorbs chlorine, taste, odor, color, pesticides, and an extensive list of chemical compounds that have been found in water supplies and are deemed health risks by the EPA.
- The water is then hyperfiltrated through a reverse osmosis element that treats the water down to the molecular level. It will reject 93% to 99+% of contaminants such as salt, nitrates, lead, fluoride, iron, copper, mercury, and arsenic. It also filters out larger organisms such as giardia cysts and cryptosporidium. This is the second stage.
- The final stage, again, is a carbon matrix filter which is used to polish the RO water as it comes out of the storage tank, just prior to the faucet.
- Convenient 3 position faucet
- Large water reservoir
- All hardware necessary for installation

WSG PREMIUM™ - PERFORMANCE SPECIFICATIONS

With proper installation and maintenance the RO membrane module in the WSG Premium™ Reverse Osmosis System will reject the following substances from tap water:

Arsenic	94-96%
Barium	96-98%
Bicarbonate	95-96%
Boron	60-70%
Bromide	93-96%
Cadmium	96-98%
Calcium	94-97%
Chloride	87-95%
Copper	98-99%
Cyanide	86-95%
Fluoride	94-96%
Hardness	95-98%
Iron	95-98%
Lead	96-98%
Magnesium	96-98%
Manganese	98-99%
Mercury	96-98%
Nickel	98-99%
Nitrate	90-96%
Phosphate	96-99%
Potassium	87-97%
Pyrogen	98-99%
Selenium	96-98%
Silica	85-90%
Silicate	95-97%
Silver	95-97%
Sodium	87-98%
Strontium	96-98%
Sulfate	98-99%
Zinc	98-99%

...plus more. The RO membrane module will also aid in the removal of color, asbestos, and cysts such as giardia and cryptosporidium.

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The WSG Premium Reverse Osmosis System includes a carbon filtration module which will remove, or significantly reduce, over 50 chemical substances that the EPA has deemed potential carcinogens. They include:

Adipates(diethylhexyl)	Dalapon	Heptachlor	2,4,5-TP (silvex)
Alachlor	Di (2-ethylhexl) adipate	Heptachlor epoxide	TCB's
Aldicarb	Dibenz (a,h) antracene	Hextachlorobenzene	TCE's
Aldicarb sulfone	Dibromochloropropane	Hextachlorocyclopentadiene	Tetrachloroethylene
Aldicarb sulfoxide	Dichlorobenzene (meta-)	Indo (1,2,3-c,d) pyrene (PAH)	Thallium
Atrazine	Dichlorobenzene (ortho)	Lidane	THM's
Benz (a) anthracine (PAH)	Dichlorobenzene (para-)	Mercury (organic complexes)	Toluene
Benzene	Dichloroethane (1,2-)	Methoxychlor	Toxaphene
Benzo (a) pyrene (PAH)	Dichloroethylene (1,1-)	Monochlorobenzene	Vinyl chloride
Benzo (b) floranthene (PAH)	Dichloroethylene (cis-1,2-)	Organic color	Xylenes
Benzo (k) floranthene (PAH)	Dichloroethylene (trans-1,2)	Organics	
Beryllium	Dichloropropane	Oxymal	
Butyl benzyl phthalate (PAE)	Diethylhexyl phthalate (PAE)	Pentachlorophenal	
Cadmium	Dinoseb	Picloram	
Carbofuran	Diquat	PCB's	
Carbon tetrachloride	Endothall	Sediment	
Chlordane	Endrin	Simazine	
Chlorine	Ethylbenzene	Styrene	
Chromium (+3)	Ethylene dibromide(EDB)	3,7,8-TCDD (dioxin)	
Chrysene (PAH)	Glyphosate	2,4-D	

The above chemicals usually come from pesticides, farm & industrial run-off and chemicals permeating through soil into ground water, aquifers, or rivers. Most municipal water supplies in the US constantly monitor for these substances and advise their customer accordingly. For further information, check with your local water supplier, the EPA, and your local water treatment professional.

GENERAL INSTALLATION AND SERVICE PARAMETERS

The WSG Premium RO System will work at peak efficiency on either municipal or ground water supplies that do not exceed the following:

Maximum psi	125 lbs
TDS	1800 ppm
Iron	0.4 ppm
Hardness	17 gr/gal
H ² S	0.05 ppm
Manganese	0.1 ppm

The WSG Premium has been designed to give many years of trouble free service. To keep the system operating in peak efficiency, it is recommended that

the unit be inspected every 6 months for possible pre-filter sediment clogging (especially if there is a lot of sediment in your water supply). Manufacturer recommends that the system be serviced on an annual basis to replace the depth filtration module and the post carbon module.

* The RO membrane module may last for a much longer period of time on relatively good water. Check with your Water Treatment Professional for local water characteristics and testing.

All Water Specialties Group's components and systems are made in the U.S.A. All housings, cartridges, membranes, faucets, & tubing used in WSG reverse osmosis systems are NSF listed. No consumer water supply that has known contamination should be assumed *safe* simply with the addition of water treatment equipment. Although, R.O. technology has proven to be effective in almost all instances. WSG strongly urges that all contaminated water samples be re-tested after installation to assure proper installation and performance of the equipment.