

ROSafe

Quality Drinking Water



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Advantages Of ROSafe Filtration System:

- Physically compact to fit all its components in one box. The multistage filtration mechanism assures the quality of the product water, to meet all requirements.
- AWT units are the only products that utilize UF membrane technology prior to the RO ensuring a longer life for its components and water free of all sorts of sediments or bacteria.
- AWT brands are designed with the backwashing aspect that allows for the cleaning of the pre-filtering stages, this further reduces the need to replace the different parts of the filter when performed properly.
- ROSafe from AWT; is made of high quality US dry membrane sheets that offer high advantage of less fouling and damage to the filter unit.
- ROSafe is a long lasting product designed and built to suit the local requirements of the region.

Comparison:

ROSafe AWT Product	Other
Multi stage filtration as per local need	Stages are offered without consideration of water quality
Replacement is not required pre-treatment filters allow the membrane 1-2 years of usage	Required on relatively short intervals close to a few months or less
Backwashing the filter assures that the particles never clog the filters bores to maintain a steady flow	The absence of backwashing accumulates the particles in the flow direction, which affects the water flow
Backwashing the filter assures that the unsafe particles are always flushed out of the system to maintain high water quality	The absence of backwashing allows for the unsafe particles to remain in the water line for a long time, remaining a hazard even after the filtration process
The removal of the particles out of the system through backwashing, allows the filters to have a lifetime longer than the average filtration system	The absence of backwashing allows for the particles to accumulate, reducing the lifetime of the cartridges
Water rejection is less	Varies, and is not warranted
Low maintenance cost	Regular replacement and high maintenance cost
Components are assembly made specific for our region	Made for mass production with no regard to water quality, or country



Product Description:

ROSafe is a multi stage filtration unit that produces consumable water through the reduction of TDS (total dissolved solids), salinity and hardness of water

1st Filter, is a 3 in 1 filter that includes the following stages:

Stage 1 is a built in screen filter made from a special washable fabric with openings as small as 5µm

Stage 2 is the KDF alloy, which is used for ionic displacement of heavy metal ions in the water like iron, lead, and also chlorine, all which are harmful to RO membranes and human. KDF also oxidizes microorganism

Stage 3 is an activated carbon cartridge, which removes odor, taste, color, and is used to reduce chlorine levels in the water. High efficiency pre filter removes chlorine, then reduces or removes pesticides, nitrates, herbicides, taste, odor, and disinfection byproducts

2nd Filter, Stage 4, UF Membrane, is a high quality polyurethane ultra filtration membrane designed to offer superior filtration and offers quality drinking water. This removes:

-Fine particles up to 0.0001 micron

-Bacteria and viruses-

This is our custom made high quality UF made of the best quality multi bores hollow fibers

3rd Filter, Stage 5, RO Membrane, is a high quality element made of dry RO membrane sheet. this semi permeable membrane filters and rejects tiny impurities, colloid, metal dissolvable solids, germs and other harmful substances. Virtually only water molecules and dissolved oxygen can pass through the membrane. The rejected contaminants are flushed to drain

The product water is essentially nothing but high quality, low TDS water

4th Filter, Stage 6, is a disinfection station utilizing UV light, which is able to kill bacteria and makes water through this station more potable

5th Filter, Stage 7, is a special unit can be offered for hard water

Notes:

-Stages 1, 2, 3, 4, 5, & 6 are standard

-Pressure tanks and water faucets are optional

-Out flushing is optional

-Other features can be supplied on pre-order basis

Technical Specification:

The RO Unit is offered in various options with following details

Product Type/ Specification	RO With UV Manual Backwash	RO With UV & Conditioner
No of Stages	6	7
Backwash valves	Available	Available
Electrical Supply	220v/24v/12	22v/24/12
Connection size	1/4"	1/4"
Weight	8.5	9.8
Operating temp max	35° C	35° C
Operating pressure	6 bars	6 bars

NOTE: Other sizes and combination are available and can be custom designed to specific needs and demands