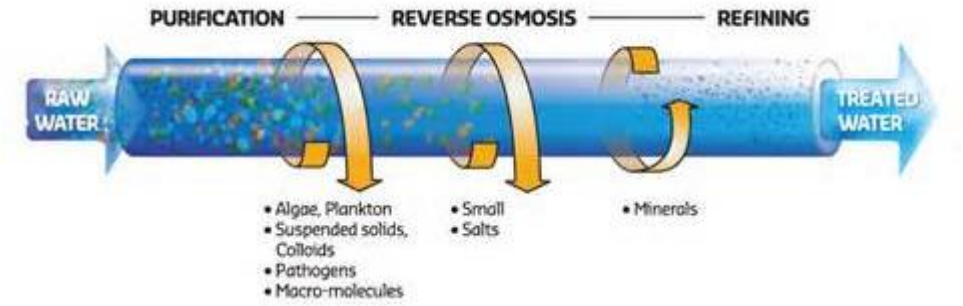
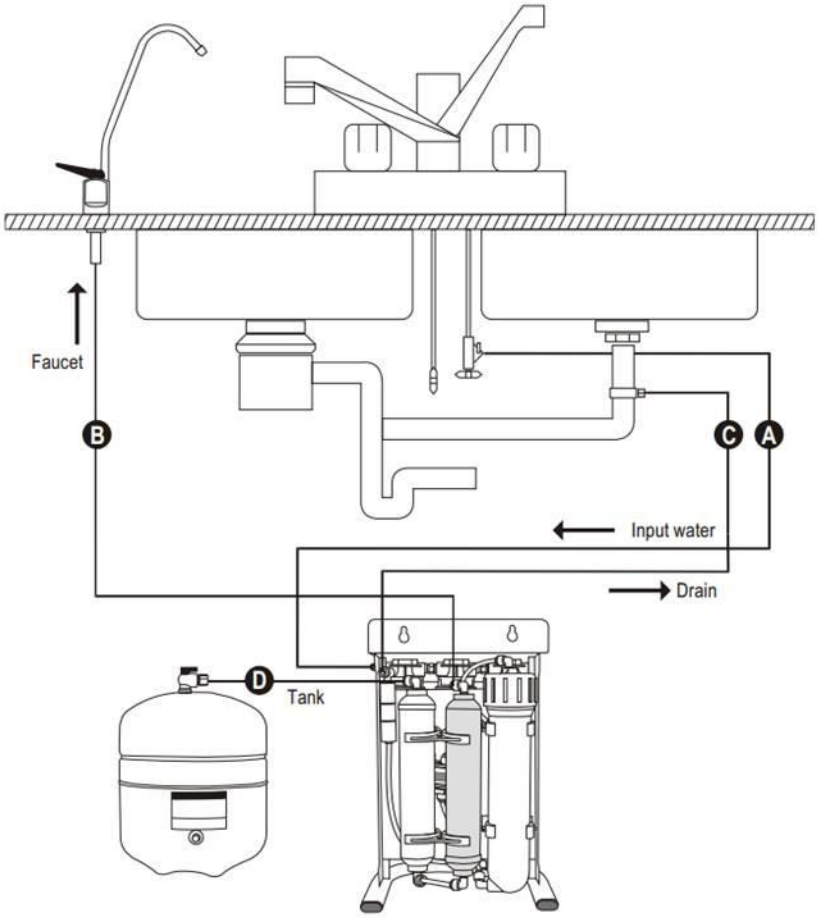
REVERSE OSMOSIS

What is Reverse Osmosis (RO) filtration?

Reverse Osmosis (RO) is a natural filtration process that was first used in 1949 for desalinisation (purifying saltwater to drinkable water). The **Klarity** RO systems combine mechanical filtration with carbon absorption and membrane separation to remove dissolved solids at the ionic level down to 0.0001 microns providing the most optimal drinking water.





Klarity

Pure Water = Pure Health

6 Stages of Filtration Process

(Stage 1) 5 Micron Sediment Filter: recommended change every 6 months

With only five micron rating it is effective enough to remove dirt, rust and sand particles.

(Stage 2) Granular Activated Carbon Filter: recommended change every 6 months

Takes out 99% of the chlorine and organic chemicals which enhances overall taste and pureness

(Stage 3) Granular Activated Carbon Filter: recommended change every 6 months

Takes out 99% of the chlorine and organic chemicals which enhances pureness and colour

(Stage 4) Reverse Osmosis Membrane: recommended change every 2 years

A thin film composite (TFC) high quality membrane that processes about 200 litres per day (about 50 US gallons per day). It removes the following hard water contaminants that may be present in your water: lead, cooper, barium, chromium, mercury, sodium, cadmium, fluoride, nitrite, nitrate, and selenium.

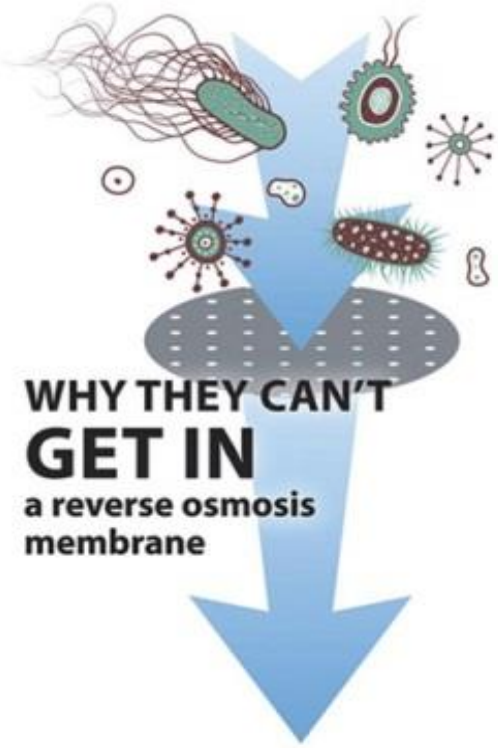
(Stage 5) Post Carbon filter: recommended change every 12 months

This carbon post filter removes bacteria and other unwanted organic material naturally to enhance the quality of your drinking water.

(Stage 6) Alkaline Filter: recommended change every 12 months

The Alkaline filter is an ADDED filter that will produce a Natural Alkali Calcium Ionized Water. The Alkaline filter simply gives back minerals such as ionized calcium, magnesium, sodium, potassium ion, which were taken away while purifying the water.

WHAT YOU WANT TO KEEP OUT



WHY THEY CAN'T GET IN

a reverse osmosis membrane

VIRUS:
200-4000x too big to get through

BACTERIA:
2000-10000x too big to get through

PLUS removal of:
chlorine, lead, fluoride, arsenic, asbestos, pharmacueticals, PCBs, pesticides, herbicides

REVERSE OSMOSIS WATER CONTAMINANT REJECTION TABLE

Contaminant	% removed
Guardia cysts	100%
Cryptosporidium cycts	100%
DDT	>99.9%
PCB	>99.9%
E. coli bacteria	>99.9%
Fecal bacteria	>99.9%
Serratia marcescenes	>99.9%
Salmonella typhi	>99.9%
Vibrio choleriae	>99.9%
Shigella disinteriae	>99.9%
Sodium fluoride	99%
Sodium chloride (NaCl)	99%
Magnesium chloride	99%
Nickel sulfate NISO4	>99%
Copper sulfate CuSO4	>99%
Chlorinated pesticides	99.90%
Sodium nitrate NaNO3	97-99%
Mercury	95-99%
Nickel	95-99%
Copper	95-99%
Sodium	95-99%
Chromate	95-99%
Silica SiO2	98%
Barium	95-99%
Cadmium	95-99%
Toluane	>99.9%

Contaminant	% removed
Chloride	99.90%
Radioactivity	95-99%
Potassium	92-99%
Zinc	95-99%
Bicarbonate	99%
Sulfate	95-99%
Calcium	95-99%
Strontium	95-99%
Nitrate +3	90-99%
Ferro cyanide	96-99%
Calcium chloride	99%
Iron	95-99%
Silicate	95-99%
Arsenic +5	95-99%
Aluminum	95-99%
Glucose	98%
Lead	95-99%
Lindane	>99.9%
Fluoride	90-95%
Magnesium	95-99%
Sucrose	99%
Silver	95-99%
Lactic acid pH5	99%
Phosphate	95-99%
Ammonium	95-99%

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