

Pure water - for your health



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AquaCare Reverse Osmosis Unit *Excel* DTP and *Excel* DT
(modifications possible)

Why Reverse Osmosis Technique?

- reverse osmosis is an efficient membrane filtration technique which reliably removes hardness and detrimental substances such as nitrate, silicic acid, pesticides, chlorine, and traces of pharmaceuticals and industry from drinking water and it
- effectively holds back bacteria, viruses, algae, and radioactive particles
- easy to operate: no addition of chemicals; separate drinking water faucet
- ideal water for your nutrition (especially for babies); for producing sparkling water with “soda-streams”; for cultivating sensitive tropical plants (orchids, *Tillandsia*, etc.); for flat irons, battery water and for aquaria (fresh and sea water tanks); as well for humidification in combination with humidifiers.

Conditions for Reverse Osmosis technique?

- Iron and manganese below 0.1 respectively 0.05 mg/l (ppm).
- Total dissolved solids (TDS) below 1000 ppm
- Bacterial conditions according to WHO or other drinking water regulations.
- A little bit space (see technical data of the units).
- An electrical connection (only some models).

Configuration of AquaCare Reverse Osmosis units

AquaCare reverse osmosis units are equipped with all necessary items to guarantee best drinking water* without contaminants. The pre-filtration eliminates particles and oxidizing agents like chlorine. Additionally chlorinated hydrocarbon are absorbed. Only after this high-grade pre-filtration the water flows to the membrane. With the help of the water pressure the feed water is divided into the concentrate (waste water) that contains all rejected substances and the pure water (permeate). The permeate is stored in a pressure tank. The fill level of the tank is controlled by a hydraulic or electronic control. If you take the pure water it will flow through an activated carbon filter before.

Installation

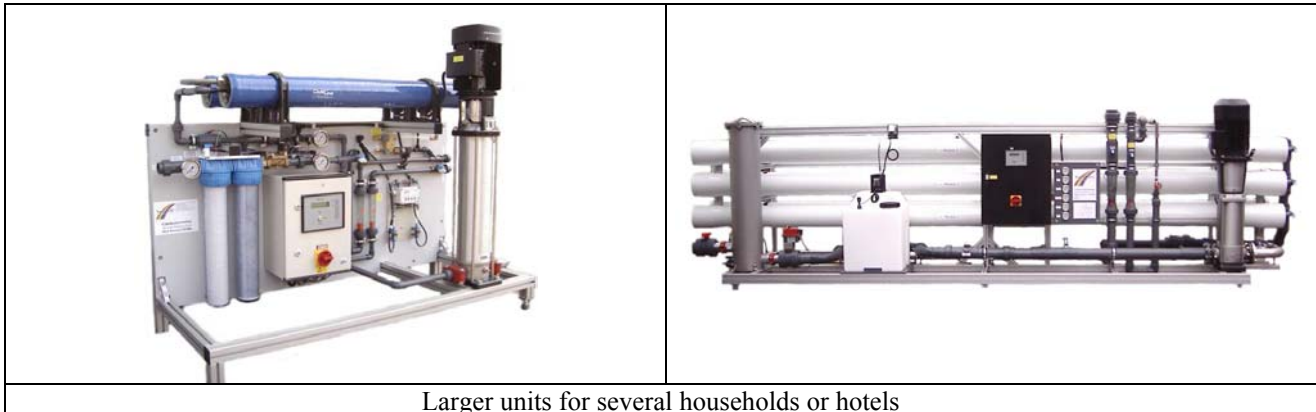
You need only some things to install a reverse osmosis unit normally under a sink. The unit that is build on a mounting plate or installation bracket has to be screw at a wall of the sink. For connecting the water inlet a $\frac{3}{4}$ "-adapter and for the concentrate a special connector for PVC tubes is delivered. For the additional faucet you must drill a hole beside the sink. The faucet is installed very easily. You can put the tank under the sink. After connecting the tubes and the electric (some models) you can open the water tap and the unit will produce water.

Operation and maintaining

After opening the tap water valve the reverse osmosis unit is producing water and fill up the tank with the time. After some hours the tank is full and you can open the faucet to take out the water. If the tank is nearly empty the reverses osmosis will start again.

The AquaCare reverse osmosis units need only a little bit maintenance. From time to time the tank should be emptied completely. After 6 months the pre-filters should be changed. The membrane has a life time of some years.

Custom made R.O. units by AquaCare



Larger units for several households or hotels