



complete reverse osmosis plants:

- Compact with everything in one cabinet
 - Easy to inst all where space is limited
 - Simple and easy installation
 - Manufactured from high quality components such as Grundfos motor and Danfoss pressure switch, all within a protective cabinet of PE
 - Fully mounted control panel – no extra electrical installations
 - Flow meter and pressure gauge for control and monitoring of the permeate flow and pressure
 - Automatic cut out switch protects plant when sensing low inlet pressure
 - UV and mixed-bed plants can be connected as optional equipment (ask for our special brochure)
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Function

Reverse osmosis is a membrane separation process whereby water is pumped at high pressure onto a semi permeable membrane. The dissolved salts (concentrate) are rejected by the membrane and water molecules flow through the membrane as purified water (permeate).

Over 99% of dissolved salts are removed including the rejection of micro organisms such as bacteria and pyrogenics.

The treated water (the permeate) is stored in the reservoir tank of the plant and from here it is pumped to point of use. The concentrate is piped to drain.

Pressure

The plant is built with integral reservoir and pump, the pump pressure being 2m cubed /hour at 3.7 bar pressure – 50 psi. The pump is pressure controlled by a pressure switch. The plant is equipped with a by-pass function which means that if the plant is not operating raw water can still be fed to points of use if required.

Quality

Water purity is dependant on feed-water quality. Typically on mains water the unit will produce a water quality of approximately 20us/cm or better. A conductivity meter can be added as optional equipment.



RO-51 compact plant with built-in reservoir and pump.



| Technical data | RO-51 |
|---|--------------------|
| Capacity, litres/hour* | 150 |
| Water utilisation, % | 40-80 |
| Salt retention, % | > 98 |
| Water quality, $\mu\text{S}/\text{cm}$ | < 50 |
| Reservoir content, l | 50 |
| Electrical connection, V/Hz | 230/50 |
| Installed output, kW | 1.3 |
| Power consumption, kWh per m^3 | 3.4 |
| Inlet, Ø " | 1/2 |
| Outlet, Ø " | 3/4 |
| Drain, Ø mm | 10 |
| Inlet pressure, min./max., bar | 2/7 |
| Measures W x D x H, mm | 350 x 560 x 750 |

* At potable water quality 10°C, 3 bar, maximum 1000 mg/l total salt content

