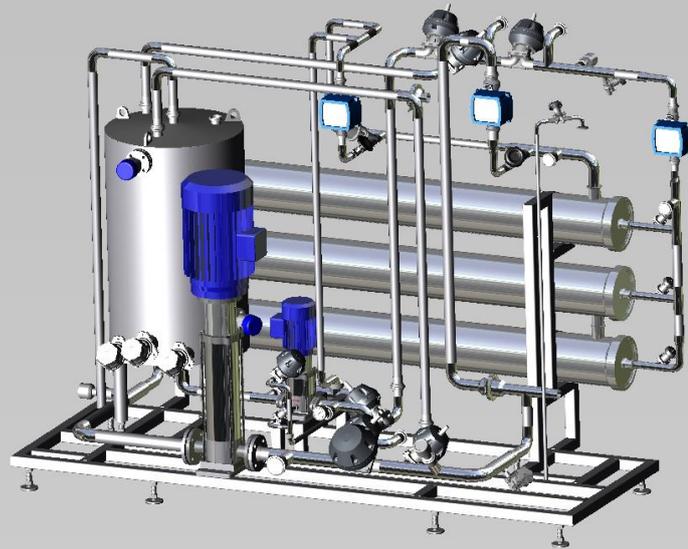


Reverse Osmosis

REVOTEC



The Principle

REVOTEC produces demineralized water perfectly suited for beverages, as boiler feed water and for treatment in subsequent purification steps. If a semipermeable membrane is placed between pure water and water with dissolved ions (salts) osmosis will come into play. The pores of the membrane only allow the passage of H_2O , but not of salts, suspended solids, bacteria and larger molecules. Osmotic pressure due to a concentration difference on both sides of the membrane causes the pure water to pass through the membrane to dilute the solution on the impure side. This will continue until the same concentration on both sides is reached. In the REVOTEC unit this process is reversed. In order to separate pure water from water containing dissolved salts, pressure is applied to the contaminated water. When the applied pressure overcomes the natural osmotic pressure, pure water will pass through the membrane into the pure water side. The purified water (permeate) is free of almost all impurities.

Typical Technical Data

Capacity

10 - 3.000 hl/h

Material

according to requirements (plastics; stainless steel)

Options

blending of permeate and raw water
conductivity measurement
water pre-treatment/pre-filtration
activated carbon filtration
multi-stage and/or modular design
disinfection
cooling
Cleaning-in-Place

Highlights

All stainless steel execution as standard
Multi-stage RO system on demand for increased yield
Customized design; different automation levels

The Centec Group

Centec offer fully automated, skid-mounted process units and high precision measurement technology from a single source. Our systems and sensors are engineered to perfectly meet the most demanding requirements of the brewery, beverage, food and pharmaceutical industries. With a team of experienced engineers, we aim to create quantifiable added value for our customers. We are your partner from planning and design through to commissioning of your plant.



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