

WATER TREATMENT · REVERSE OSMOSIS SYSTEM

Reverse osmosis system

Code umkehrosmose · 3 Models

Reverse osmosis systems reduce the salts and minerals dissolved in the water and thereby lower the conductivity of the feedwater. The water is forced through a semi-permeable membrane under pressure. Water molecules can pass through the membrane, while many dissolved substances are retained and discharged. For steam generators, a reverse osmosis system is particularly useful where a higher feedwater quality is required, where a large number of operating hours is reached, or where blowdown and desalination losses are to be reduced. A reverse osmosis system is also required for the generation of clean steam. Reverse osmosis is usually combined with an upstream softening system in order to protect the membrane. We offer reverse osmosis systems as a separate unit or in combination with a softening system – sized to suit the raw water quality, the water demand and the operating mode of the steam plant.



Fig.: Reverse osmosis system

Technical data

Specification	UO-LC 50-100	UOB 100-250	UOB 300-500
Permeate output, max. (l/h)	100	250	500
Recovery rate, max. (%)	75	75	75
Storage tank (l)	-	600	1,000
Height (mm)	1,400	1,650	1,650
Width (mm)	640	1,200	1,200
Depth (mm)	355	800	1,000
Weight (kg)	40	120	140

Standards & compliance: CE · Pressure Equipment Directive 2014/68/EU · EMC Directive 2014/30/EU · Low Voltage Directive 2014/35/EU · VDE-compliant wiring