

LENNRO SERIES

Tap / low brackish
water
Reverse Osmosis

5 m³/h
10 m³/h
20 m³/h
50 m³/h

Description

Lenntech large reverse osmosis systems provide low conductivity water from tap water and low brackish water. Lenntech units are ready-to-use, skid mounted, easy to operate.

- Compact design, low energy demand and high recovery;
- Fully automatic system, microprocessor controlled.

This system includes

- 5-micron cartridge filter;
- High pressure pump;
- Permeate conductivity indicated in the front panel display;
- High performance Dow membranes;
- Fiberglass pressure vessels;
- Permeate and concentrate flow meters;
- Pressure indicators;
- Low pressure switch before the HPP;
- Control cabinet fully automatic;
- CIP connections;
- PVC piping
- Needle valves, high pressure throttle valve, high pressure check valve in stainless steel.

Feed water quality specifications

Total dissolved solids	Max. 1000 ppm
pH value continuously	2-11
pH short time during cleaning	1-12
Dissolved iron	<0.05 ppm
Dissolved manganese	<0.05 ppm
Free chlorine (continuously)	<0.1 ppm
Oil and grease	<0.1 ppm
COD	<10 mg/l
Silt Density Index SDI ₁₅	< 3
Turbidity	< 1 NTU
Pre-pressure	Min. 2 bar - max. 4 bar
Temperature	Min 15°C – max 25°C

Options

- Feed pump
- Antiscalant dosing system;
- Softener;
- CIP station.

Technical data

LennRO_LBW-L	5	10	20	50
Permeate flow m ³ /h	5	10	20	50
Feed flow m ³ /h	6.3	12.5	25	62.5
Recirculation flow m ³ /h	3.5	1	0	0
Recovery	80%	80%	80%	80%
Permeate TDS ppm	< 100	< 100	< 100	< 100
Membranes	XLE 440	XLE 440	XLE 440	XLE 440
Array (# Vessels)	1/1	1/1/1	2/1/1	4/3/2
Pump power	5.5 kW	7.5 kW	15 kW	37 kW

These data are given for information purpose only. They are subject to modifications depending on the water quality and temperature.

Reverse Osmosis units often required pre-treatment for the following parameters:

- Suspended solids
- TOC, COD/BOD, oil and grease
- Iron and manganese
- Hardness

Lenntech provides all kinds of pre and post treatment required before and after your RO, according to your water analysis and process requirements.

Please contact us for further information.

Document Vers 00_2015