

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

| | | | | |
|--------------------------------------|---------|---------|---------|---------|
| LenRO_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.

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