

### LENNRO SERIES

High brackish water  
Reverse osmosis systems

5 m<sup>3</sup>/h  
10 m<sup>3</sup>/h  
20 m<sup>3</sup>/h  
50 m<sup>3</sup>/h

#### Description

Lenntech large reverse osmosis systems provide low conductivity water from high 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;
- Dow Filmtec membranes;
- Fiberglass pressure vessels;
- Permeate and concentrate flow meters;
- Pressure indicators;
- Low pressure switch before the HPP;
- Control cabinet fully automatic;
- CIP connections;
- SS316 piping;

#### Options

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

#### Feed water quality specifications

Total dissolved solids	Max. 6000 ppm
pH value continuously	2-11
pH short time during cleaning	1-12
Dissolved iron	Max 0.05 ppm
Dissolved manganese	Max 0.05 ppm
Chlorine (continuously)	0 ppm
Oil and grease	0 ppm
Silt Density Index SDI <sub>15</sub>	< 3
Turbidity	< 1 NTU
Temperature	Min. 15°C - max. 25°C
Pre-pressure	Min. 2 bar - max. 4 bar

### Technical data

LennRO_HBW-L	5	10	20	50
Permeate flow m <sup>3</sup> /h	5	10	20	50
Feed flow m <sup>3</sup> /h	7.1	14.3	28.6	71.4
Recovery	70%	70%	70%	70%
Permeate TDS ppm	< 200	< 200	< 200	< 200
Membranes	LE-440i	LE-440i	LE-440i	LE-440i
Array (# Vessels)	1/1	1/1	2/2	5/4
Pump power	7.5 kW	15 kW	30 kW	75 kW

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

Reverse Osmosis units requires often 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.

LennRO series for brackish water treatment are also available in:

- Low brackish water – up to 1000 ppm TDS
- Brackish water – up to 3000 ppm TDS

Please make your request according to the type of water.

Document vers 00\_2014