

LENNRO SERIES

Tap / low brackish
water
Reverse Osmosis



250 L/h
500 L/h
750 L/h
1000 L/h

Description

Lenntech small 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 after each pump;
- 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	Max 0.05 ppm
Dissolved manganese	Max 0.05 ppm
Chlorine (continuously)	0 ppm
Oil and grease	0 ppm
Silt Density Index SDI ₁₅	< 3
Turbidity	< 1 NTU
Temperature	Min. 5°C - max. 30°C
Pre-pressure	Min. 2 bar - max. 4 bar

Options

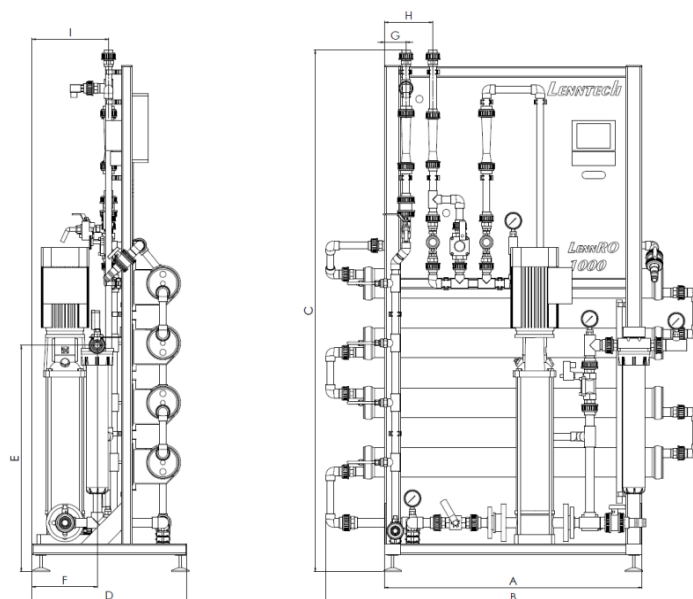
- Antiscalant dosing system;
- Softener;
- CIP station.

Technical data

LennRO_LBW	250	500	750	1000
Permeate flow m ³ /h	0.25	0.5	0.75	1.0
Feed flow m ³ /h	0.33	0.67	1	1.33
Recirculation flow m ³ /h	0.6	0.6	0.5	0.4
Recovery	75%	75%	75%	75%
Permeate TDS ppm	< 100	< 100	< 100	< 100
Membranes	XLE 2540	XLE4040	XLE4040	XLE4040
Array (# Vessels)	1 / 1 / 1	1 / 1	1 / 1 / 1	1 / 1 / 1 / 1
Pump power	2.2 kW	2.2kW	2.2 kW	2.2 kW

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

Dimensions



Skid's legs are adjustable. The system can be set leveled on an uneven floor.

Connections (mm)	250	500	750	1000
Feed	DN25	DN25	DN25	DN25
Permeate	DN20	DN20	DN20	DN20
Concentrate	DN20	DN20	DN20	DN20
CIP connections	Yes	Yes	Yes	Yes
Dimensions (mm)	1000	1250	1500	2000
A	960	960	960	960
B	1350	1400	1400	1400
C	1950	1950	1950	1950
D	580	580	580	580
E	850	850	850	850
F	250	250	250	250
G	80	80	80	80
H	180	180	180	180
I	290	290	290	290

Weight (Kg)	Empty	Full
250	130	150
500	130	160
750	130	170
1000	140	190

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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