

LENNRO SERIES

Tap / low brackish
water
Reverse Osmosis



1000 L/h
1250 L/h
1500 L/h
2000 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	<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
Temperature	Min. 5°C - max. 30°C
Pre-pressure	Min. 2 bar - max. 4 bar

Options

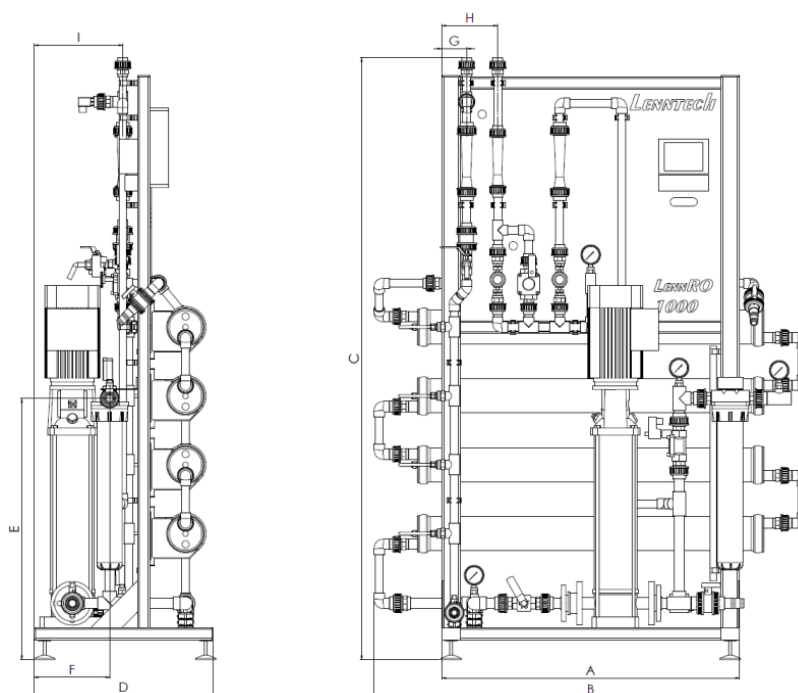
- Antiscalant dosing system;
- Softener;
- CIP station.

Technical data

LennRO_LBW	1000	1250	1500	2000
Permeate flow m ³ /h	1.0	1.25	1.5	2.0
Feed flow m ³ /h	1.33	1.67	2.0	2.67
Recirculation flow m ³ /h	0.4	0.32	0.7	0.5
Recovery	75%	75%	75%	75%
Permeate TDS ppm	< 100	< 100	< 100	< 100
Membranes	XLE 4040	XLE4040	XLE4040	XLE4040
Array (# Vessels)	1 / 1 / 1 / 1	1 / 1 / 1 / 1 / 1	2 x 2 / 1 x 2	2 x 2 / 1 x 2 / 1 x 2
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)	1000	1250	1500	2000
Feed	DN25	DN25	DN25	DN25
Permeate	DN20	DN20	DN20	DN20
Concentrate	DN20	DN20	DN20	DN20
CIP connections	Yes	Yes	Yes	Yes

Weight (Kg)	Empty	Full
1000	140	190
1250	140	200
1500	150	250
2000	150	250

Dimensions (mm)	1000	1250	1500	2000
A	960	960	1500	1500
B	1400	1400	2350	2350
C	1950	1950	1950	1950
D	580	580	550	550
E	850	850	950	950
F	250	250	270	270
G	80	80	650	650
H	180	180	900	900
I	290	290	250	250

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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