

LENNRO - EDI

SERIES

Tap / low brackish
water

Reverse Osmosis



500 L/h

Description

Lenntech reverse osmosis +EDI systems provide low conductivity water (Demi 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;
- 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.



EDI

- Twin softener- pre-treatment;
- CIP connections;
- Testomat;
- Unitronics PLC with 10" colour touch screen;
- Data logging and trending possible.

Technical data

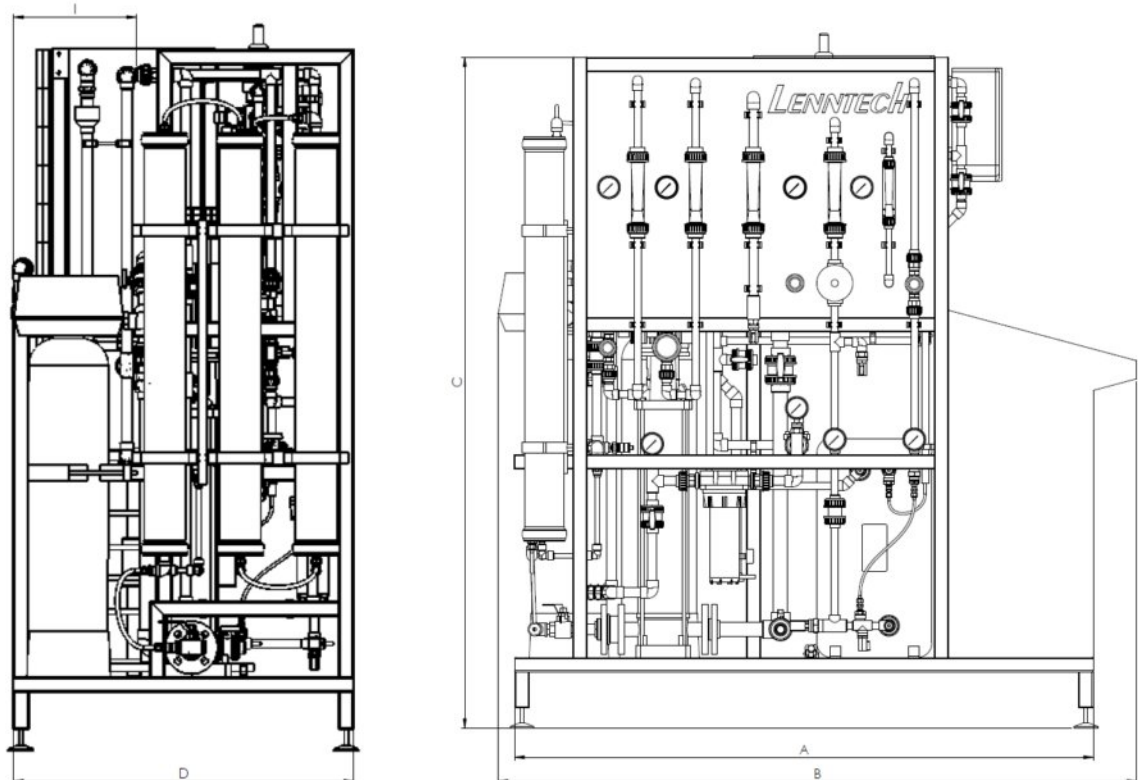
LennRO-EDI	500
Permeate flow m ³ /h	0.5
Feed flow m ³ /h	0.72
Recirculation flow m ³ /h	1
Recovery	75%
Permeate TDS μS/cm	< 0.8
Membranes	LCHR 4040
Array (# Vessels)	1 / 1 / 1
Pump power	2.2 kW
EDI Recovery	Up to 95%
EDI module	

Feed water quality specifications

Total dissolved solids	Max. 600 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. 8°C - max. 20°C
Pre-pressure	Min. 2 bar - max. 4 bar

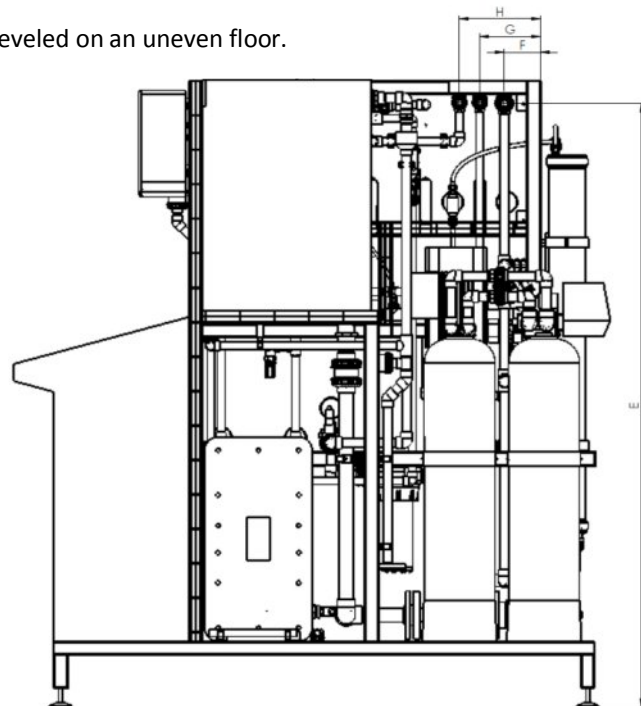
These data are given for information purpose only. They are subject to modifications depending on the water quality.

Dimensions



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

Dimensions (mm)	1000
A	1600
B	1770
C	1850
D	900
E	1790
F	108
G	180
H	240
I	330
Empty weight	300kg



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.