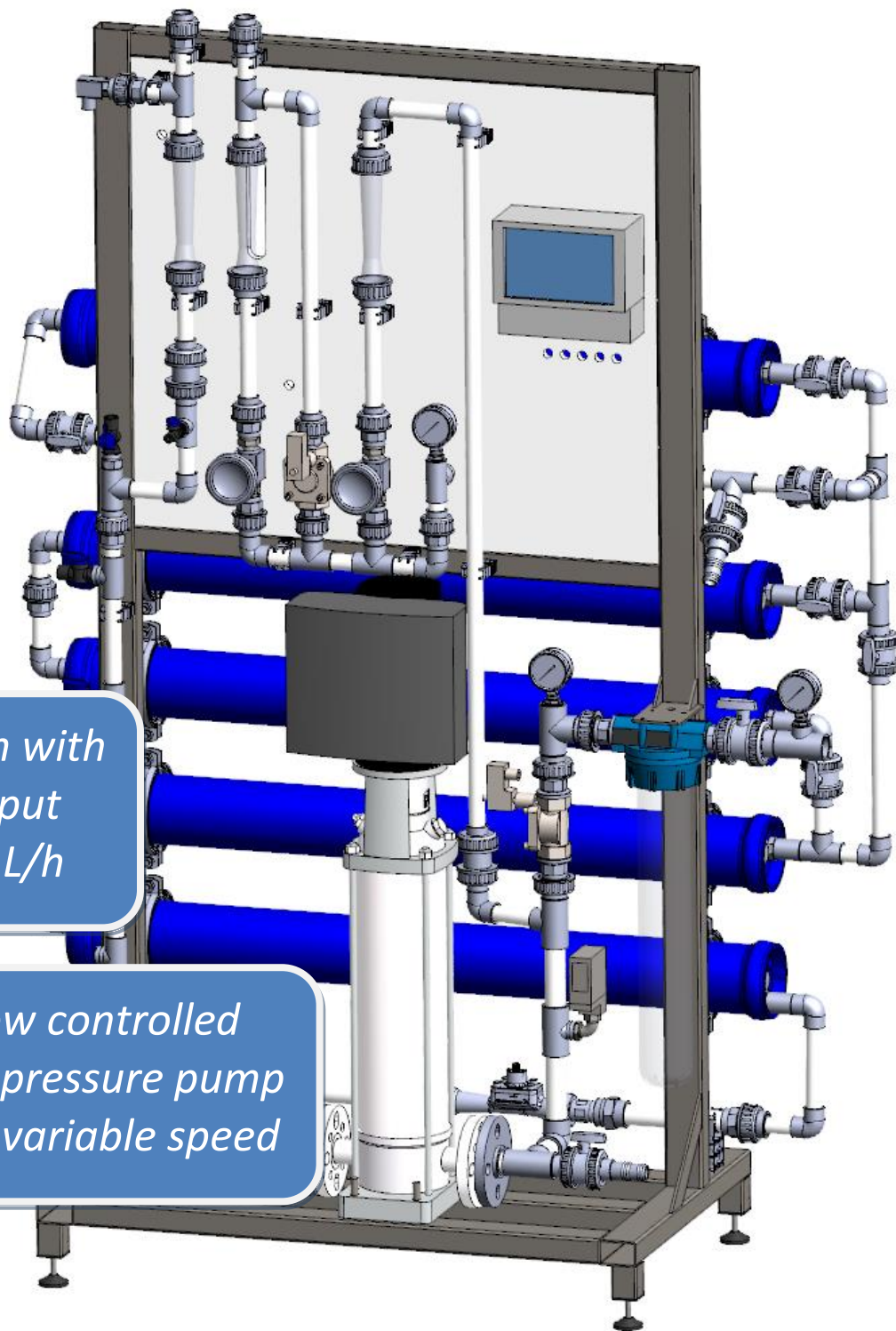


LENNRO GREENLINE

Multi flow tap / low brackish water Reverse Osmosis systems



*One RO system with
variable output
250 to 1500 L/h*

*Flow controlled
High pressure pump
with variable speed*

Description

LENNRO GREENLINE reverse osmosis system provides low conductivity water from tap water and low brackish water. Lenntech units are ready-to-use, skid mounted, easy to operate.

The LennRO GREENLINE come with up to 6 installed Pressure vessel which can be isolated individually. Hereto the system can run on 1 membrane producing 250 l/h and with up to 6 membranes for a production of 1500 l/h.

The pump comes with a variable speed drive and is controlling the feed flow into the system. The system can easily change production capacity by simply stopping the system, opening or closing some valves and changing the set point of the pump and restarting the system.

- Compact design, low energy demand and high recovery;
- Fully automatic system, microprocessor controlled.

This system includes

- 5-micron cartridge filter;
- High pressure pump with variable speed;
- 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;
- Control cabinet fully automatic;
- CIP connections;
- PVC piping;
- Needle valves, high pressure check valve in stainless steel.

Options

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

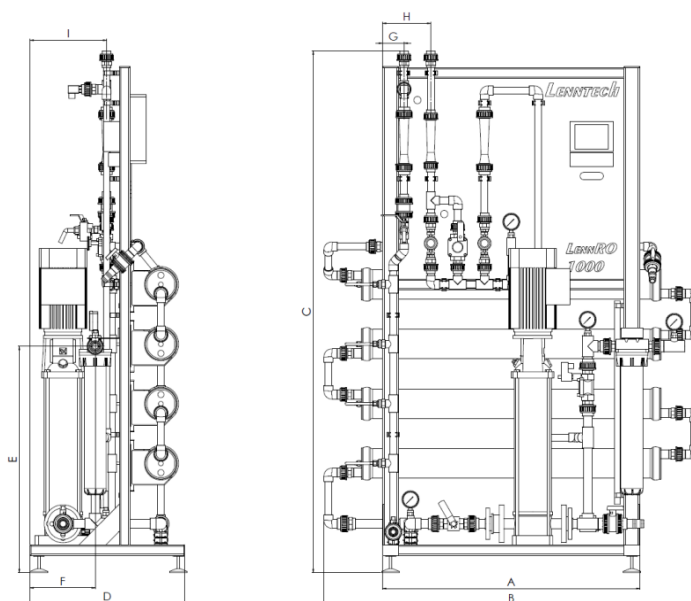
Feed water quality specifications

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

LENNRO GREENLINE	G1	G2	G3	G4	G5	G6
Permeate flow L/h	250	500	750	1000	1250	1500
Feed flow L/h	500	670	1000	1330	1670	2000
Recirculation flow L/h	500	600	500	400	300	300
Recovery	50%	75%	75%	75%	75%	75%
Permeate TDS ppm	< 100*					
Membranes	Up to 6 pieces XLE4040**					
# of active membranes	1	2	3	4	5	6
# of pressure vessels	Up to 6 pieces 4040**					
Pump power	1.5 kW					

These data are given for information purpose only. *) They are subject to modifications depending on the water quality. **) depending on the client's request, system can come with 1,2,3,4,5 or 6 installed pressure vessels/membranes. Max flow will depend on installed no. of pressure vessels/membranes.

Dimensions



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

Connections (mm)	GREENLINE G1 to G6
Feed	DN25
Permeate	DN20
Concentrate	DN20
CIP connections	Yes
Dimensions (mm)	
A	960
B	1410
C	1950
D	620
E	850
F	250
G	160
H	260
I	280

Weight (Kg)	Empty	Full
LennRO Greenline	Up to 150 kg	Up to 200 kg

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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