LENNTECH
WATER TREATMENT SOLUTIONS

PROFESSIONAL Lenntech MO12000 4" REVERSE OSMOSIS SYSTEM

APPLICATIONS

Steam boilers, heating and cooling circuits, breweries and beverage production, livestock and poultry farms, glazing factories, laundry and car wash etc.

EQUIPMENT

- Grundfos® CM 1-10 pump
- 300 psi membrane housings
- BB10 sediment prefilter
- Electrical panel with LennRO controller
- Danfoss solenoid valves
- Piping, instrumentation
- Steel frame
- Wooden crate

KEY FEATURES

- LennRO controller OC5000
- Easy to use thanks to smart architecture
- Modularized architecture for adding permeate flushing or raw water blending assembly to the system
- Grundfos worldwide guaranty
- CE marked and confirmed to be safe in accordance with EC New Approach Directives

OPTIONS

- Filmtec™ XLE-4040 / LCLE-4040
- Dosing pump for antiscalant
- Versatile set for raw water blending (30…240 L/h) or permeate flushing

PHYSICAL PARAMETERS

Influent water, concentrate, permeate	G ½"	
Antiscalant dosing port	G ½"	
Permeate flushing input port	G ½"	
Approx. weight (bare system / crate)	60 kg	85 kg
Dimensions (bare system, W × D × H)	0.55 × 0.42 × 1.50 m	
Dimensions (crate, W × D × H)	0.60 × 0.50 × 1.65 m	

Lenntech reserves the right to amend the product's system architecture provided that its functionality and usability will not deteriorate

PROFESSIONAL LennRO MO12000 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membranes**	Pieces on pallet
MO12000TP5	Lenntech MO12000 RO System	400–550 (100–150)	2/40 x 40	4

** Membranes are not included in the package

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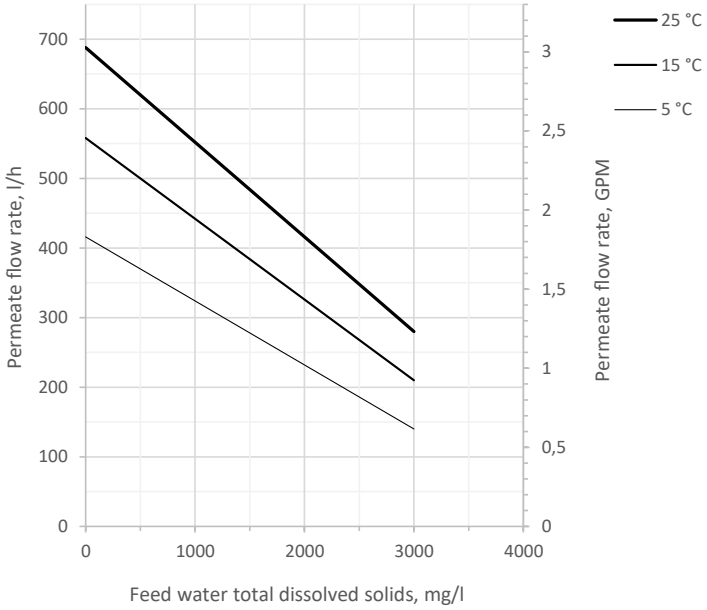
TECHNICAL SPECIFICATION

Permeate capacity [1]	**500 L/h**
Permeate recovery [2]	**75%**
Maximum TDS	**3000 mg/L**
Influent flow demand	650…800 L/h (service)
	1500…2000 L/h (rinse)
Operating pressure	8…12 bar
Maximum pressure	14 bar
Electrical requirements	230 V, 50 Hz (1 ph)
Electrical power	1 kW
Prefilter rating	5 µm

[1] depends on feed water TDS, temperature, and permeate recovery — see graph on the right

[2] for low scaling/fouling water

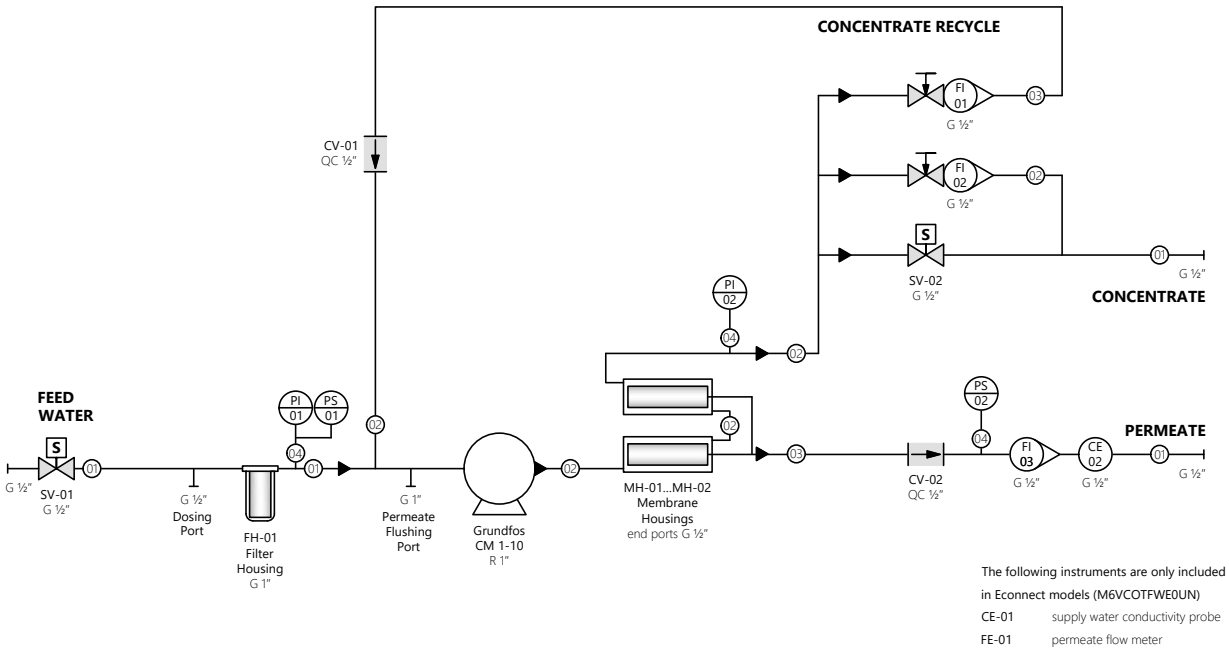
LennRO MO12000 FLOW CAPACITY (WITH XLE-4040 MEMBRANES)



Permeate flow rates are calculated under the following conditions:
- 2 bar influent water pressure
- 0 bar backpressure in the permeate line
- fresh membranes
- XLE-4040 membranes

PIPES AND INSTRUMENTS DIAGRAM

LennRO MO12000TP5
Reverse Osmosis System
Piping and Instrumentation Diagram



The following instruments are only included in Econnect models (M6VCOTFWE0UN)

CE-01 supply water conductivity probe
FE-01 permeate flow meter

PIPES AND CONNECTIONS				VALVES	INSTRUMENTS
01 PVC pipe	20 mm O.D.	**G**	parallel BSPT thread	S Solenoid Valve	PI Pressure gauge (panel mount)
02 PE hose	½" O.D.	**R**	tapered BSPT thread	Needle Valve	PS Pressure switch (panel mount)
03 PE hose	⅜" O.D.	**PVC**	polyvinylchloride (solvent weld)	Check Valve	FI Rotameter
04 PE hose	¼" O.D.	**PE**	polyethylene		CE Conductivity probe (process mount)
		QC	quick connect collet fitting		FE Flow meter (process mount)

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info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289