

PROFESSIONAL Lenntech MO36000 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, greenhouses etc.

EQUIPMENT

- Grundfos® CM 3-14 pump
- 300 psi membrane housings
- BB20 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 or LennRO ELP-4040 membrane
- Dosing pump for antiscalant
- Versatile set for raw water blending (120...1080 L/h) or permeate flush

PHYSICAL PARAMETERS

Influent water, concentrate, permeate	G 1"
Antiscalant dosing port	G ½"
Permeate flushing input port	G 1"
Raw water blending port	G ¾"
Approx. weight (bare system / crate)	130 kg 170 kg
Dimensions (bare system, W × D × H)	0.90 × 0.60 × 1.50 m
Dimensions (crate, W × D × H)	1.20 × 0.75 × 1.90 m



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

PROFESSIONAL LennRO MO36000 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membranes**	Pieces on pallet
MO36000TP5	Lenntech MO36000 RO System	1400–1600 (350–420)	6/40 x 40	1

** Membranes are not included in the package

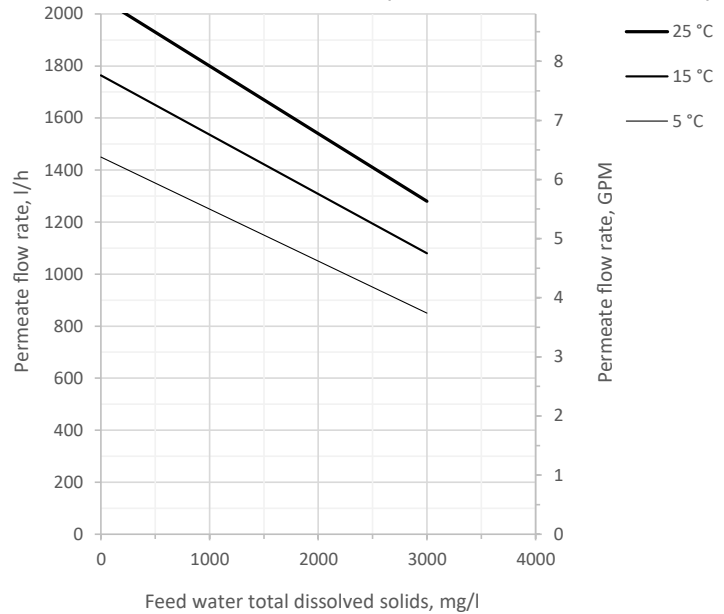
TECHNICAL SPECIFICATION

Permeate capacity ¹	1500 L/h
Permeate recovery ²	75%
Maximum TDS	3000 mg/L
Influent flow demand	2000...2500 L/h (service) 3000...4000 L/h (rinse)
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	230 V, 50 Hz (1 ph)
Electrical power	2 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

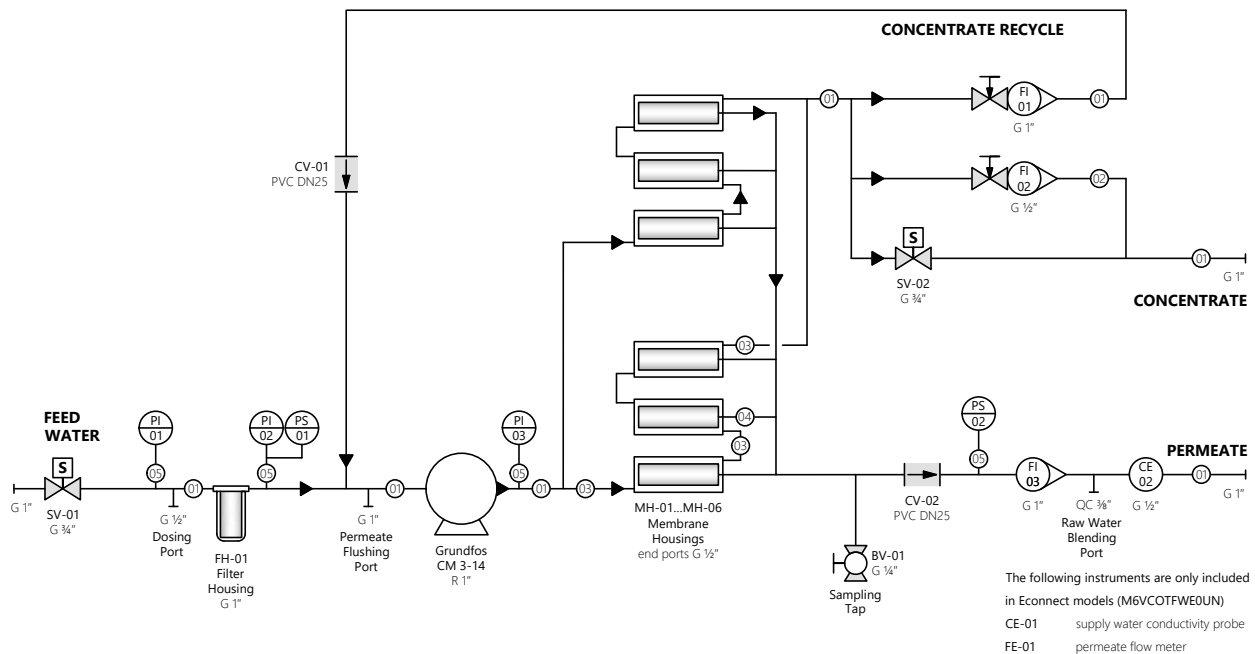
LenRO MO36000 FLOW CAPACITY (WITH XLE-4040 MEMBRANES)



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

LenRO MO36000TP5
Reverse Osmosis System
Piping and Instrumentation Diagram



PIPES AND CONNECTIONS

—(01)—	PVC pipe	32 mm O.D.	G	parallel BSPT thread
—(02)—	PVC pipe	20 mm O.D.	R	tapered BSPT thread
—(03)—	PE hose	1/2" O.D.	PVC	polyvinylchloride (solvent weld)
—(04)—	PE hose	3/4" O.D.	PE	polyethylene
—(05)—	PE hose	1/4" O.D.	QC	quick connect collet fitting

VALVES

	Solenoid Valve		Ball Valve
	Needle Valve		
	Check Valve		

INSTRUMENTS

	Pressure gauge (panel mount)		Conductivity probe (process mount)
	Pressure switch (panel mount)		Flow meter (process mount)
	Rotameter		