

LENNTECH MO3 8" REVERSE OSMOSIS SYSTEM

APPLICATIONS

Process water, rinse water, steam boilers, heating and cooling circuits, agriculture, desalination, food and beverage, utility water treatment.

EQUIPMENT:

- Grundfos® CR 10-12 high pressure pump 1 pcs
- 8040 membrane vessel.....3 pcs
- BB20 sediment prefilter.....3 pcs
- Motorized valves.....2 pcs
(feed water in, flush out)
- Balancing valves.....2 pcs
(concentrate reject, concentrate recycle)
- Electrical cabinet with Ecosoft controller...1 set
- Piping, instrumentation, steel frame.....1 set

OPTIONS

- Filmtec™ XLE-440 / ECO PRO-440
- Dosing pump for antiscalant or other RO chemicals
- Permeate inlet for permeate membrane rinse
- Raw water mixing line



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

CONNECTION PORT SIZES:

Influent water.....G 1½"
Permeate.....G 1"
Concentrate.....G 1½"
CIP inlet.....G 1½"
CIP return.....G 1½"
CIP permeate.....G ½"
Antiscalant dosing port.....G ½"

PHYSICAL PARAMETERS:

Approximate dimensions (bare).....1.90 × 1.10 × 1.95 m
(Width × Depth × Height, ±5%)
Approximate dimensions (crated).....2.10 × 1.20 × 2.22 m
(Width × Depth × Height, ±5%)
Approximate weight (bare).....340 kg
Approximate weight (crated).....430 kg

MO3 8" REVERSE OSMOSIS SYSTEM

Code	Product	Flow capacity, m³/h (GPH)	Membranes**
MO3TP5	MO3 RO System	3–4 (800–1 060)	3/80 x 40

** Membranes are not included

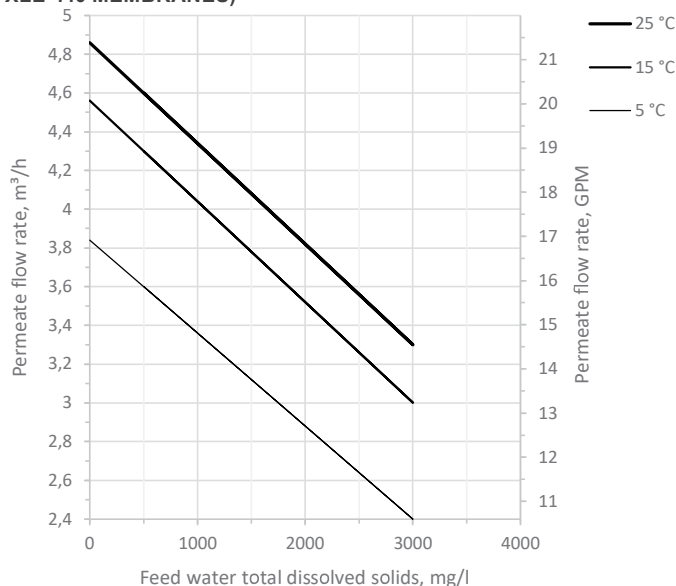
TECHNICAL SPECIFICATION

Permeate capacity ¹	3 m ³ /h
Permeate recovery ²	75%
Maximum TDS	3000 mg/L
Influent flow demand	4...6 m ³ /h (service) 10 m ³ /h (rinse)
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	380...400 V, 50 Hz (3 ph)
Electrical power	4 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

MO3 RO FLOW CAPACITY GRAPH (WITH XLE-440 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-440 membrane

PIPES AND INSTRUMENTS DIAGRAM

