

LENNTECH MO12 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 20-10 high pressure pump.....1 pcs
- 8040-3 membrane vessel.....4 pcs
- Stainless steel housing with 7 PP 2,5 × 40" filters...1 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.....1 set
- Steel frame.....1 set

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

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

CONNECTION PORT SIZES:

Influent water.....DN65 (flange)
 Permeate.....DN50 (G 2")
 Concentrate.....DN65 (flange)
 CIP inlet.....DN40 (G 1½")
 CIP return.....DN40 (G 1½")
 CIP permeate.....DN25 (G 1")

PHYSICAL PARAMETERS:

Approximate dimensions (installed).....4.00 × 1.40 × 2.10 m
 (Width × Depth × Height, ±5%)
 Approximate weight (bare).....820 kg
 Approximate weight (crated).....1100 kg

MO12 8" REVERSE OSMOSIS SYSTEM

Code	Product	Flow capacity, m³/h (GPH)	Membranes**
MO12TP5	MO12 RO System	12–15 (3 200–4 000)	12/80 x 40

** Membranes are not included

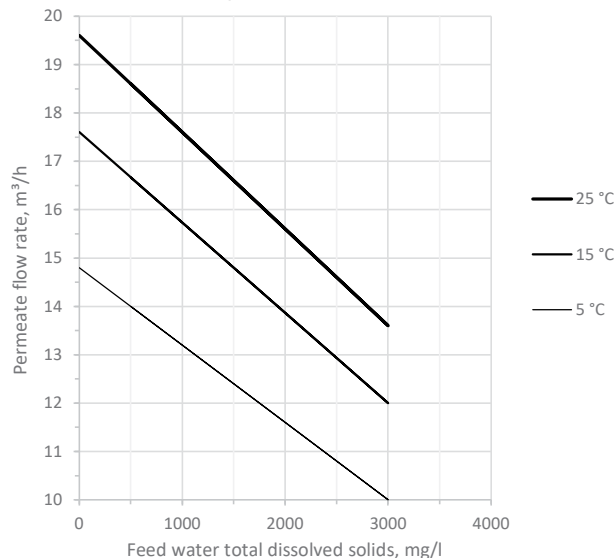
TECHNICAL SPECIFICATION

Permeate capacity ¹	12 m ³ /h
Permeate recovery ²	75%
Maximum TDS	3000 mg/L
Influent flow demand	16...20 m ³ /h
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	380...400 V, 50 Hz (3 ph)
Electrical power	11 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

MO12 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

