

LENNTECH MO9 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 15-9 high pressure pump.....1 pcs
- 8040-3 membrane vessel.....3 pcs
- BB20 sediment prefilter.....5 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

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.....G 2"
 Permeate.....G 1½"
 Concentrate.....G 2"
 CIP inlet.....G 1½"
 CIP return.....G 1½"
 CIP permeate.....G 1"
 Antiscalant dosing port.....G ½"

PHYSICAL PARAMETERS:

Approximate dimensions (bare).....3.90 × 1.20 × 1.95 m
 (Width × Depth × Height, ±5%)
 Approximate dimensions (crated).....4.10 × 1.37 × 2.24 m
 (Width × Depth × Height, ±5%)
 Approximate weight (bare).....600 kg
 Approximate weight (crated).....920 kg

MO9 8" REVERSE OSMOSIS SYSTEM

Code	Product	Flow capacity, m³/h (GPH)	Membranes**
MO9TP5	MO9 RO System	9–12 (2 400–3 200)	9/80 x 40

** Membranes are not included

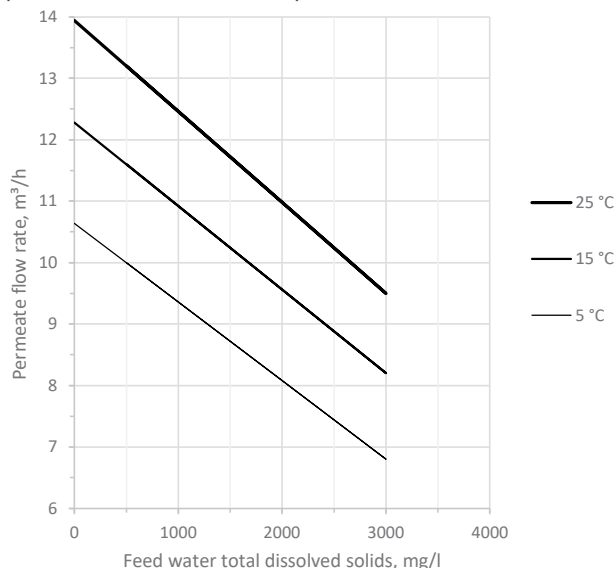
TECHNICAL SPECIFICATION

Permeate capacity ¹	9 m ³ /h
Permeate recovery ²	75%
Maximum TDS	3000 mg/L
Influent flow demand	12...16 m ³ /h (service) 20 m ³ /h (rinse)
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	380...400 V, 50 Hz (3 ph)
Electrical power	7.5 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

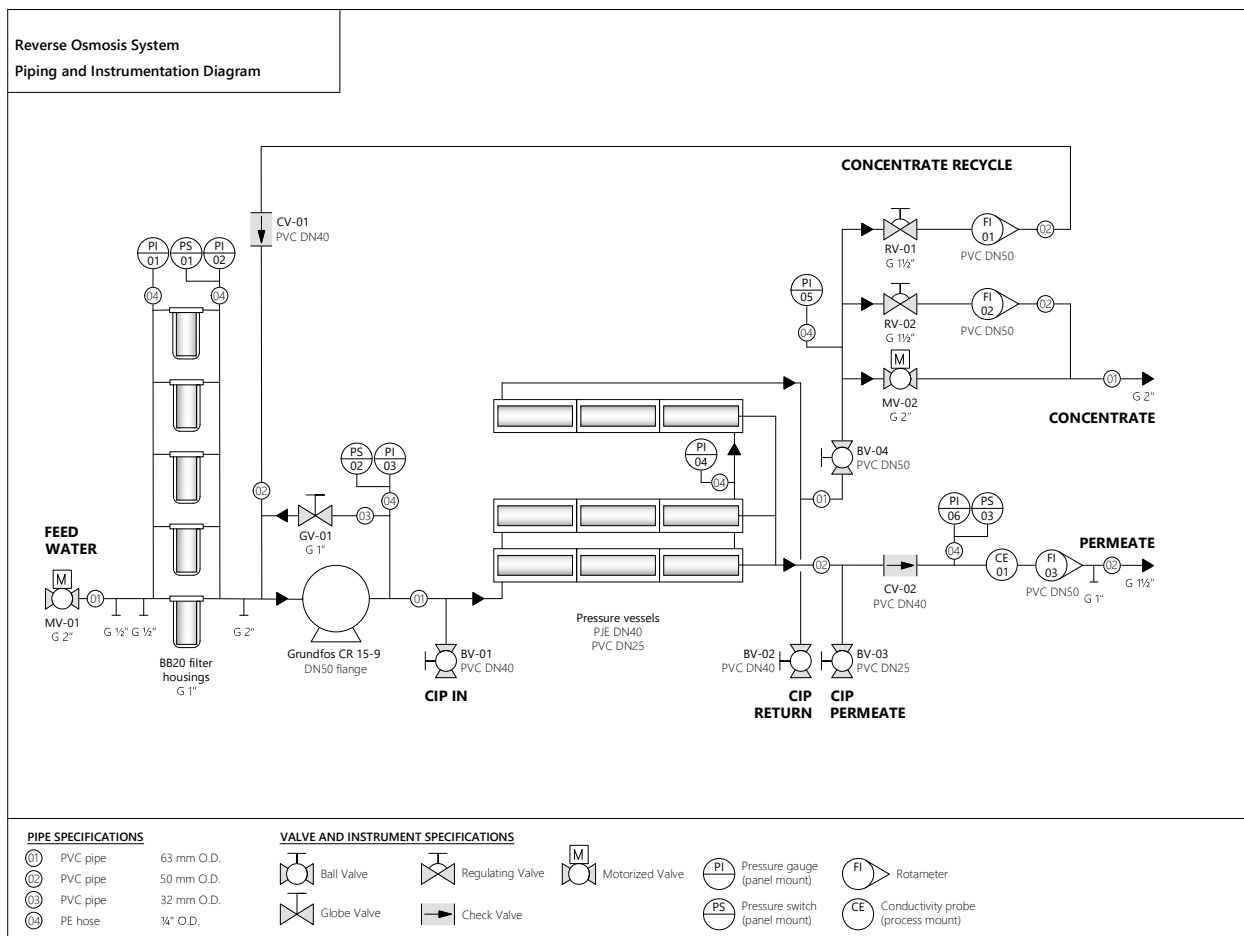
MO9 RO FLOW CAPACITY GRAPH
(WITH XLE-440 MEMBRANES)



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



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