

ECOSOFT INOX MO3 with Siemens 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 housing.....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 panel with Ecosoft controller OC6000...1 set
- Set of instruments.....1 set
- **AISI 316 Stainless steel high pressure line**.....1 set
- **AISI 304 Stainless steel frame**.....1 set
- **Frame mounted casters**.....1 set

OPTIONS

- Filmtec™ XLE-440 / ECO PRO-440 or Ecosoft ELP-8040 membranes
- Dosing pump for antiscalant or other RO chemicals
- Permeate inlet for permeate membrane rinse
- Raw water mixing line

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"



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

EQUIPMENT OF SIEMENS CONTROLLER:

- Electrical panel with controller Siemens SIMATIC PM1200 1 set
- Basic Panel Siemens KTP700 Basic 1 set

SIEMENS CONTROLLER MONITORING OF:

- osmosis operating modes: operation, stop, failure
- motorized valves: feed water in, hydraulic flush; permeate rinse (option)
- permeate and concentrate flow rates
- permeate temperature
- initial water quality, permeate quality
- feed water pressure, pressure after the cartridges, pressure after the pump, pressure after the membranes
- permit level in the tank (sensor not included)

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

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Code	Product	Flow capacity, m³/h (GPH)	Membranes**
MO3TISiem	Ecosoft INOX MO3 with Siemens	3-4 (800-1 060)	3/80 x 40

** Membranes are not included

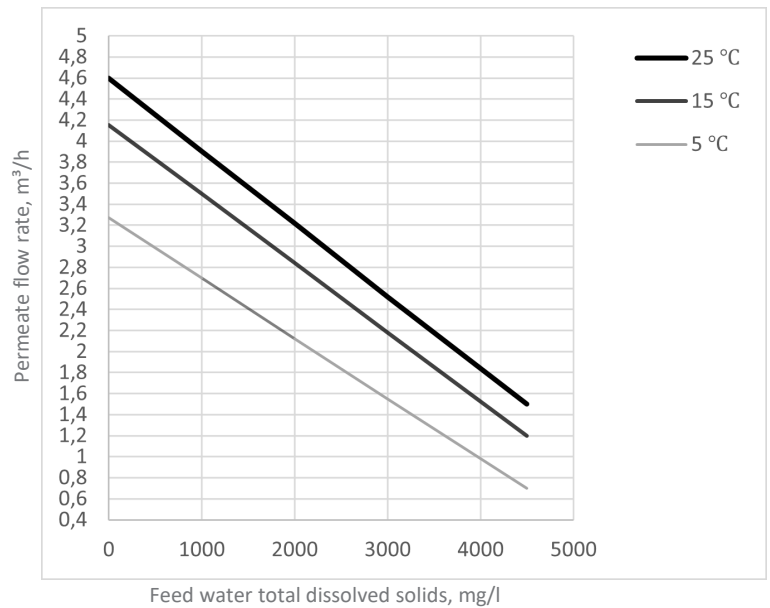
TECHNICAL SPECIFICATION

Permeate capacity ¹	3 m ³ /h
Permeate recovery ²	75%
Maximum TDS	4500 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
Pre-filter rating	5 μm

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

² for low scaling/fouling water

ECOSOFT 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

