

# ECOSOFT INOX MO3 IoT 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



*Ecosoft 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

## ECOSOFT INOX MO3 IoT 8" REVERSE OSMOSIS SYSTEM

Code	Product	Flow capacity, m³/h (GPH)	Membranes**
MO3TI6	Ecosoft INOX MO3 IoT RO System	3-4 (800-1 060)	3/80 x 40

\*\* Membranes are not included

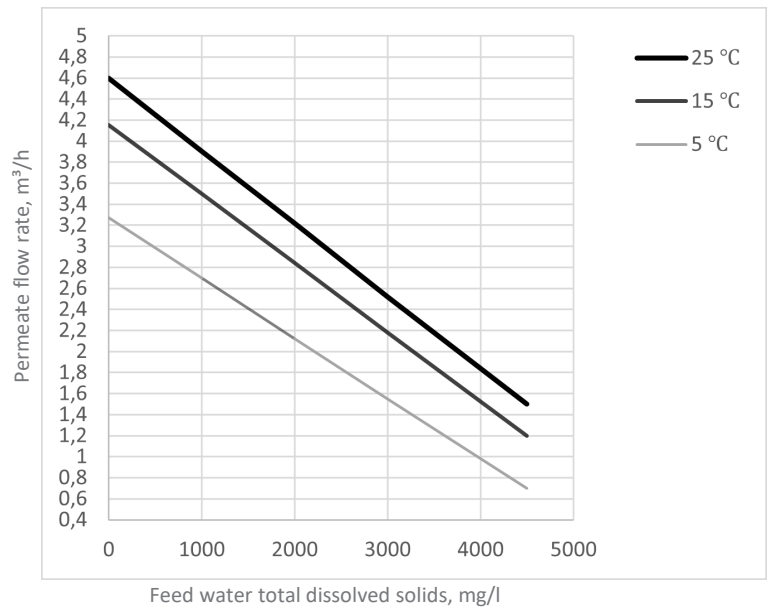
### TECHNICAL SPECIFICATION

Permeate capacity <sup>1</sup>	3 m <sup>3</sup> /h
Permeate recovery <sup>2</sup>	75%
Maximum TDS	4500 mg/L
Influent flow demand	4...6 m <sup>3</sup> /h (service) 10 m <sup>3</sup> /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

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

<sup>2</sup> 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

