

# ADVANCED ECOSOFT IoT MO12000 4" REVERSE OSMOSIS SYSTEM



## APPLICATIONS

Steam boilers, heating and cooling circuits, breweries and beverage production, livestock and poultry farms, glazing factories, laundry and car wash etc.

## EQUIPMENT

- Grundfos® CM 1-10 pump
- 300 psi membrane housings
- BB20 sediment prefilter
- Electrical panel with Ecosoft controller
- Danfoss solenoid valves
- Permeate flow meter
- Inlet, permeate conductivity probes
- Piping, instrumentation
- Powder coat steel frame
- Carton crate

## KEY FEATURES

- Ecosoft controller OC6000 with Econnect functionality providing online access to the RO machine
- Easy to use thanks to smart architecture
- Modularized architecture for adding permeate flushing or raw water blending assembly to the system
- Grundfos worldwide guaranty
- CE marked and confirmed to be safe in accordance with EC New Approach Directives

## OPTIONS

- Filmtec™ XLE-4040 / LCLE-4040 or Ecosoft ELP-4040 membrane
- Dosing pump for antiscalant
- Versatile set for raw water blending (30...240 L/h) or permeate flushing

## PHYSICAL PARAMETERS

Influent water, concentrate, permeate	G ½"
Antiscalant dosing port	G ½"
Permeate flushing input port	G ½"
Approx. weight (bare system / crate)	60 kg      85 kg
Dimensions (bare system, W × D × H)	0.55 × 0.42 × 1.50 m
Dimensions (crate, W × D × H)	0.60 × 0.50 × 1.65 m



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

## ADVANCED ECOSOFT MO12000 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membranes**	Pieces on pallet
MO12000TP6	MO12000 IoT advanced 4" RO system with Econnect	400–550 (100–150)	2/40 x 40	4

\*\* Membranes are not included in the package

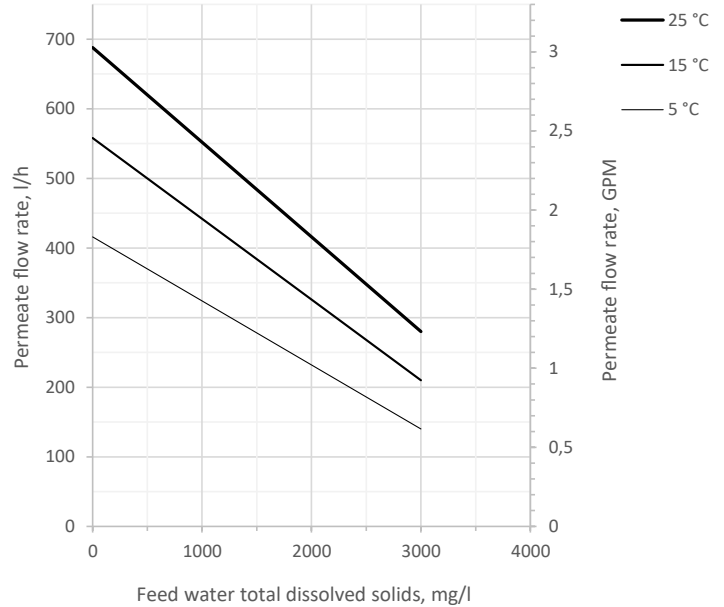
### TECHNICAL SPECIFICATION

Permeate capacity <sup>1</sup>	500 L/h
Permeate recovery <sup>2</sup>	75%
Maximum TDS	3000 mg/L
Influent flow demand	650...800 L/h (service) 1500...2000 L/h (rinse)
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	230 V, 50 Hz (1 ph)
Electrical power	1 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 MO12000 FLOW CAPACITY (WITH XLE-4040 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-4040 membranes

### PIPES AND INSTRUMENTS DIAGRAM

