

# ECOSOFT INOX IoT MO6500 4" REVERSE OSMOSIS SYSTEM

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## APPLICATIONS

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

## 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

## EQUIPMENT:

- Grundfos® CM 1-10 pump
- 300 psi membrane housing
- BB20 sediment prefilter
- Electrical panel with Ecosoft controller
- Danfoss solenoid valves
- Permeate flow meter
- Inlet, permeate conductivity probes
- Piping, instrumentation
- AISI 304 Stainless steel frame
- Carton crate

## OPTION:

- 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

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

### PHYSICAL PARAMETERS

Influent water, concentrate, permeate	G 1/2"
Antiscalant dosing port	G 1/2"
Permeate flushing input port	G 1/2"
Approximate weight (bare system / crated system)	55 kg / 80 kg
Dimensions (bare system, W x D x H)	0.54 x 0.39 x 1.45 m
Dimensions (crate, W x D x H)	0.60 x 0.45 x 1.55 m

### ADVANCED ECOSOFT MO6500 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membrane*	Pieces on pallet
MO6500T16	MO6500 INOX IoT advanced 4" RO system with Econnect	200-300 (50-80)	1/40 x 40	4

\* Membranes are not included in the package

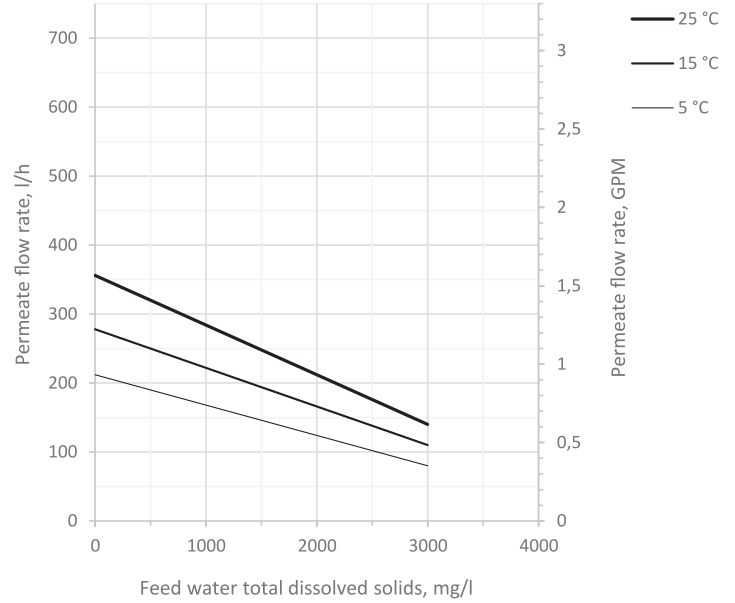
## TECHNICAL SPECIFICATION

Permeate capacity <sup>1</sup>	250 L/h
Permeate recovery <sup>2</sup>	75%
Maximum TDS	300 mg/L (10 g/L)
Influent flow demand	320...400 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	0.7 kW
Prefilter 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

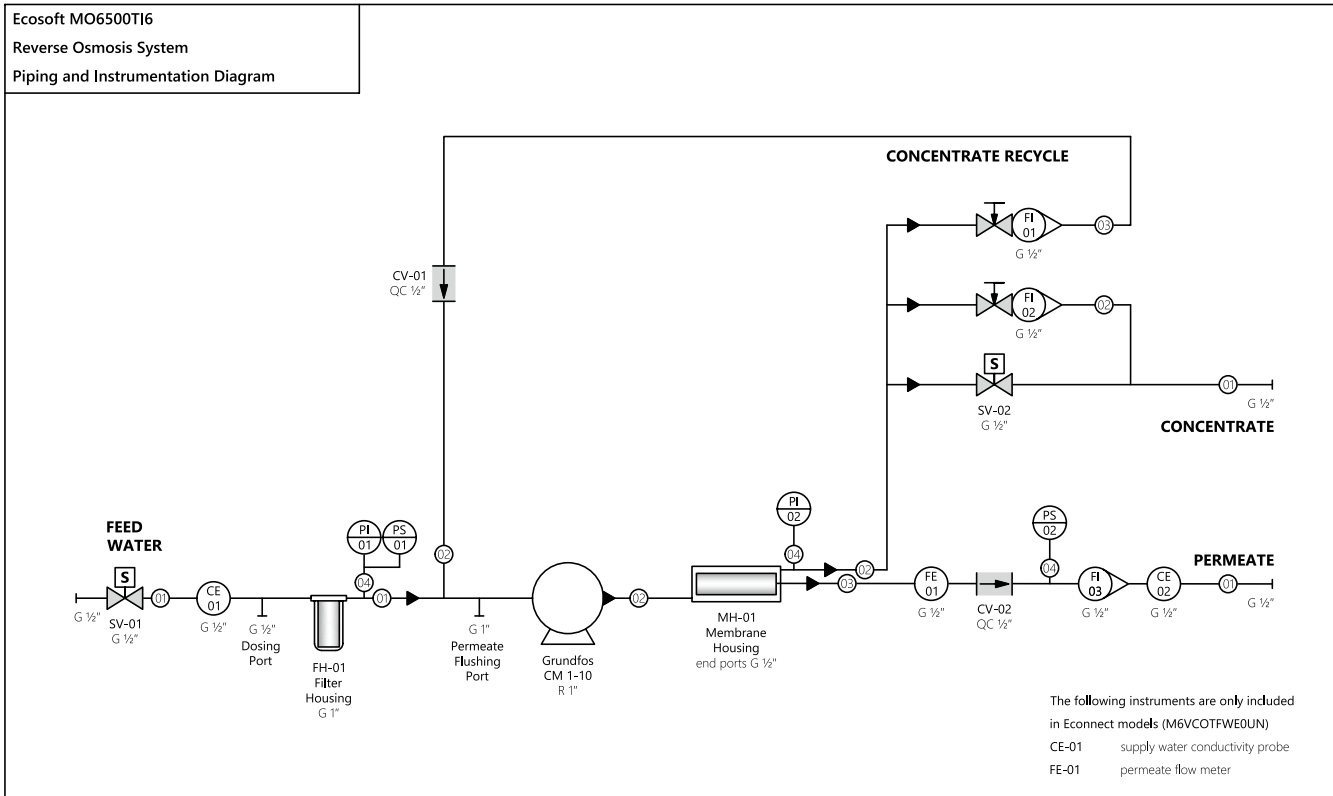
### ECOSOFT MO6500 INOX RO FLOW CAPACITY GRAPH (WITH LCLE-4040 MEMBRANE)



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



PIPES AND CONNECTIONS			VALVES	INSTRUMENTS				
①	PVC pipe	20 mm O.D.	G	parallel BSPT thread	PI	Pressure gauge (panel mount)	CE	Conductivity probe (process mount)
②	PVC hose	DN15, G ½"	R	tapered BSPT thread	PS	Pressure switch (panel mount)	FE	Flow meter (process mount)
③	PE hose	½" O.D.	PVC	polyvinylchloride (solvent weld)	F	Rotameter		
④	PE hose	¾" O.D.	PE	polyethylene	S	Solenoid Valve		
⑤	PE hose	1" O.D.	QC	quick connect collet fitting	NV	Needle Valve		
					CV	Check Valve		