

# ECOSOFT MO12000 4" REVERSE OSMOSIS SYSTEM FOR BRACKISH WATER

## APPLICATIONS

Process water, rinse water, steam boilers, heating and cooling circuits, agriculture, desalination, food and beverage, utility water treatment.

## EQUIPMENT

- Grundfos® CRN 1-30 high pressure pump
- 450 psi membrane housing
- Ecosoft controller OC6000
- Purified water conductivity probe
- Electrical inlet valve
- Regulating needle valves
- AISI 304 Stainless steel frame
- AISI 316 Stainless steel piping

## OPTION

- High rejection Filmtec™ membrane: LC LE PRO-4040
- High rejection LG™ membrane: LG BW 4040 ES

## TECHNICAL SPECIFICATION

<b>Permeate capacity</b> <sup>1</sup>	<b>500 L/h</b>
<b>Permeate recovery</b> <sup>2</sup>	<b>depends on feed water TDS</b>
<b>Maximum TDS</b>	<b>10 000 mg/L (10 g/L)</b>
Influent flow demand	800...1600 L/h (service)
Operating pressure	15...20 bar
Maximum pressure	25 bar
Electrical requirements	230 V, 50 Hz (1 ph)
Electrical power	1.6 kW

<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 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 ¾"
Permeate	G ½"
Concentrate	G ½"

## Approximate weight

Bare system	110 kg
Crated system	140 kg
Dimensions (Width × Depth × Height)	
Bare system	490 × 340 × 1625 mm
Crated system	500 × 400 × 1750 mm

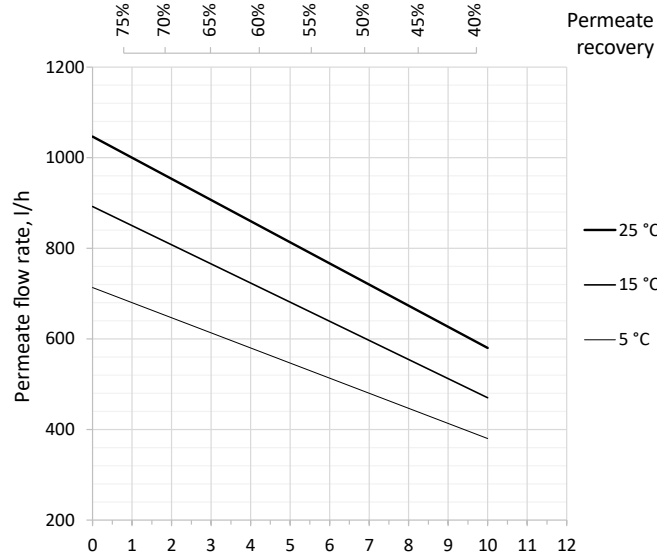
## ECOSOFT MO6500 4" REVERSE OSMOSIS SYSTEM FOR BRACKISH WATER

Code	Product	Flow capacity, L/h (GPH)	Membranes*
MO12000BI6	Ecosoft MO12000 BWRO System	400–600 (100–150)	2/40 x 40

\* the system is shipped without a membrane

\*\* dimensions may vary ± 5%

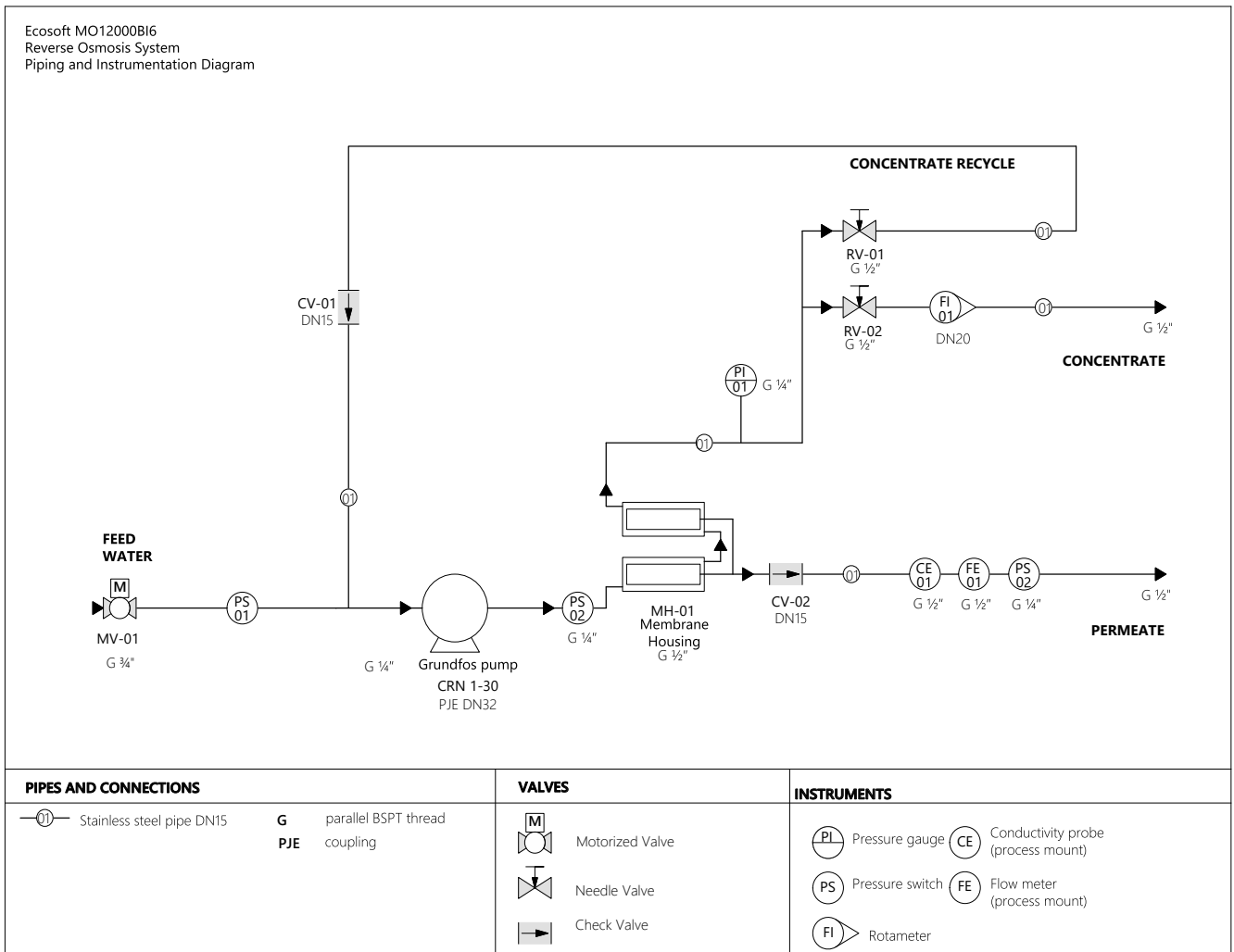
## ECOSOFT MO12000 INOX RO FLOW CAPACITY GRAPH (WITH LCLE-4040 MEMBRANES)



Permeate flow rates are calculated under the following conditions:

- 4 bar influent water pressure
- 0 bar backpressure in the permeate line
- fresh membranes

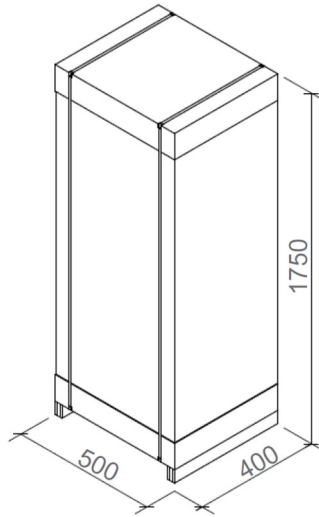
## PIPES AND INSTRUMENTS DIAGRAM



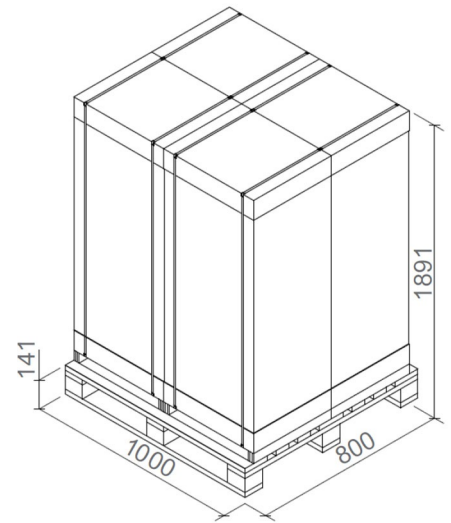
## SYSTEM DIMENSIONS



**Figure 3.1** Dimensions of bare system



**Figure 3.2** Dimensions of crate



**Figure 3.3** Dimensions on pallet