ECOSOFT MO10000
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 vessel
- 2.5 × 10″ sediment prefilter
- Electrical panel with Ecosoft controller
- Danfoss solenoid valve
- Piping, instrumentation
- Steel frame
- Wooden crate

KEY FEATURES

- Ecosoft controller OC5000
- Saves up to 55% of space*
- Easy to use thanks to smart architecture
- Grundfos worldwide guaranty
- CE marked and confirmed to be safe in accordance with EC New Approach Directives

* Compared to MO12000

OPTION

- Filmtec™ XLE-4040 / LCLE-4040 or Ecosoft ELP-4040 membranes

PHYSICAL PARAMETERS

Influent water, concentrate, permeate	G ½″	
Approx. weight (bare system / crate)	50 kg	65 kg
Dimensions (bare system, W × D × H)	0.29 × 0.36 × 1.48 m	
Dimensions (crate, W × D × H)	0.3 × 0.4 × 1.65 m	

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

ECOSOFT MO10000 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membranes**	Pieces on pallet
MO10000TP5	Ecosoft MO10000 RO System	400–550 (100–150)	2/40 x 40	9

** Membranes are not included in the package

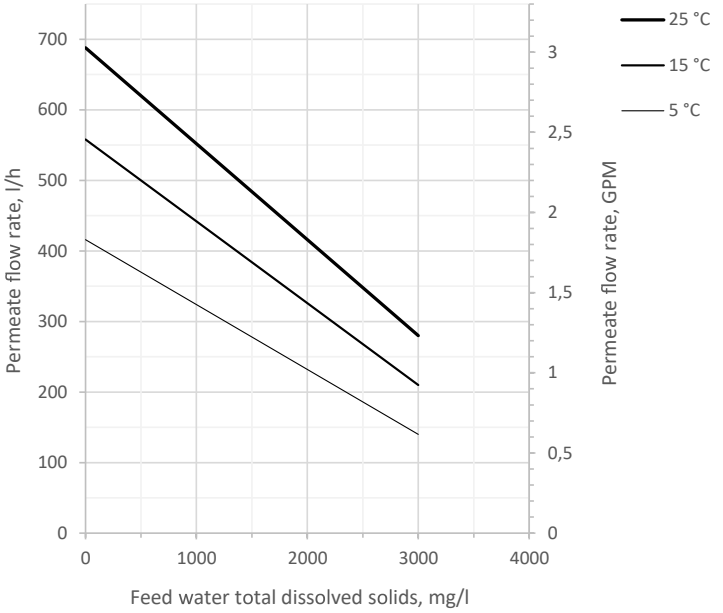
TECHNICAL SPECIFICATION

Permeate capacity [1]	**500 L/h**
Permeate recovery [2]	**75%**
Maximum TDS	**3000 mg/L**
Influent flow demand	650…800 L/h (service)
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

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

[2] for low scaling/fouling water

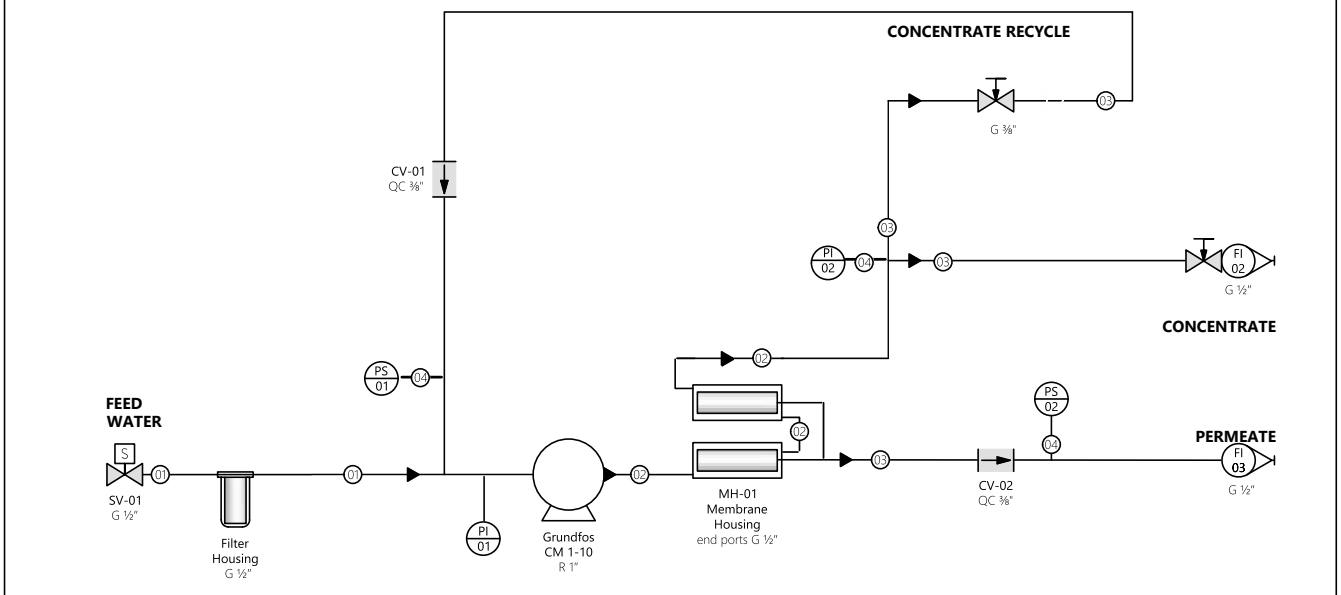
ECOSOFT MO5000 FLOW CAPACITY (WITH XLE-4040 MEMBRANES)



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

Ecosoft **MO10000TP5**
Reverse Osmosis System
Piping and Instrumentation Diagram



PIPES AND CONNECTIONS

01 PVC pipe	20 mm O.D.	G	parallel BSPT thread
02 PE hose	½" O.D.	R	tapered BSPT thread
03 PE hose	⅜" O.D.	PVC	polyvinylchloride (solvent weld)
04 PE hose	¼" O.D.	PE	polyethylene
		QC	quick connect collet fitting

VALVES

- Solenoid Valve
- Needle Valve
- Check Valve

INSTRUMENTS

- PI — Pressure gauge (panel mount)
- PS — Pressure switch (panel mount)
- FI — Rotameter