

BWT PROFESSIONAL MO12000 4" REVERSE OSMOSIS SYSTEM



BWT 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"
Approx. weight (bare system / crate)	60 kg / 85 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

BWT PROFESSIONAL MO12000 4" REVERSE OSMOSIS SYSTEM

Code	Product	Flow rate, L/h (GPH)	Membranes*	Pieces on pallet
125692216	MO12000TP5BWT RO System	400-550 (100-150)	2/40 x 40	4

APPLICATIONS

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

KEY FEATURES

- Controller OC5000
- 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 housings
- BB10 sediment prefilter
- Electrical panel with Ecosoft controller
- Danfoss solenoid valves
- Piping, instrumentation
- Steel frame
- Carton box
- PP melt blown sediment filter, 5 micron

OPTION:

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

* Membranes are not included in the package

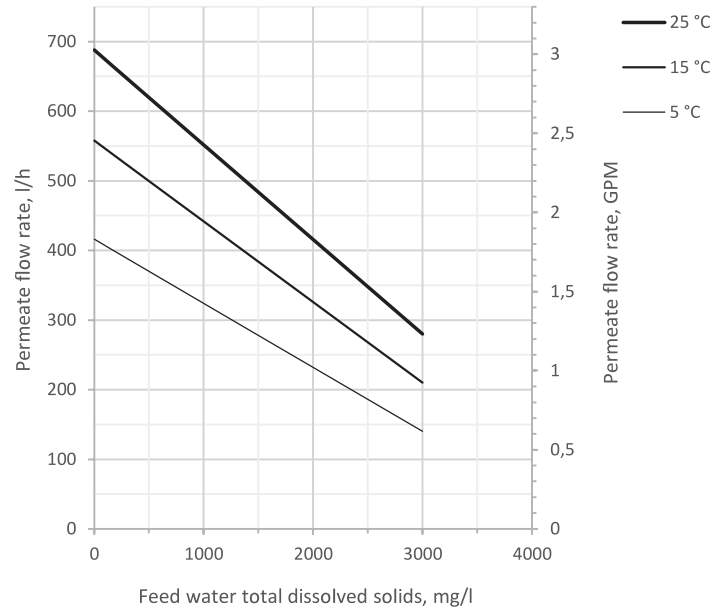
TECHNICAL SPECIFICATION

Permeate capacity ¹	500 L/h
Permeate recovery ²	75%
Maximum TDS	3000 mg/L
Influent flow demand	650...800 L/h (service) 1500...2000 L/h (rinse)
Operating pressure	8...12 bar
Maximum pressure	14 bar
Electrical requirements	230 V, 50 Hz (1 ph)
Electrical power	0.67 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

BWT MO12000 FLOW CAPACITY (WITH XLE-4040 MEMBRANE)

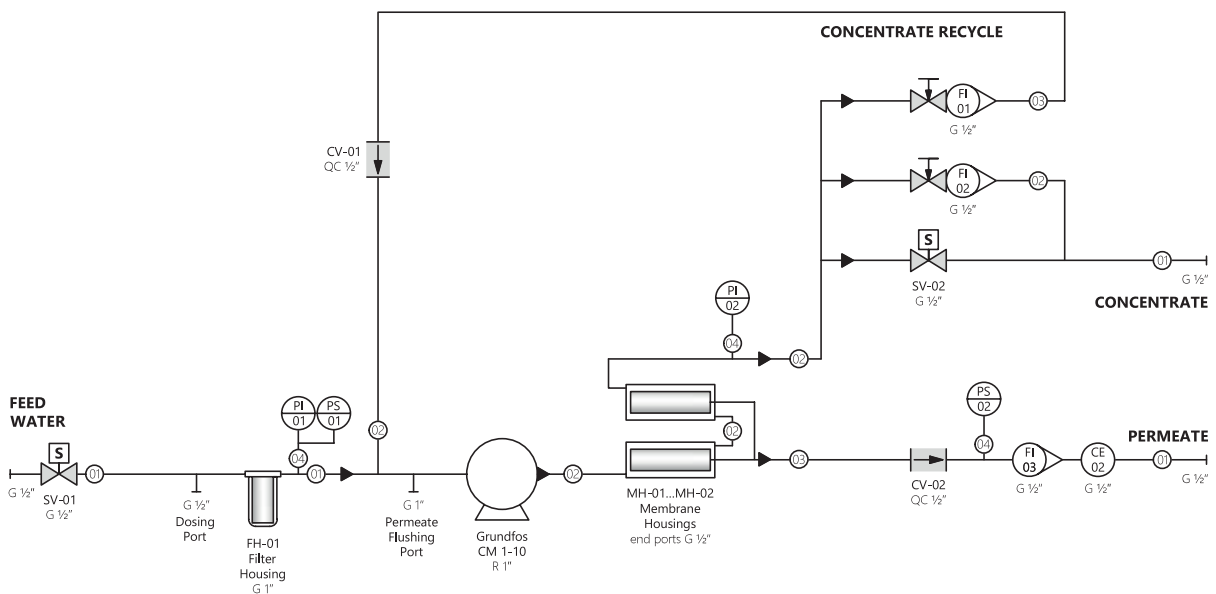


Permeate flow rates are calculated under the following conditions:

- 2 bar influent water pressure
- 0 bar backpressure in the permeate line
- fresh membranes
- XLE-4040 membranes

PIPES AND INSTRUMENTS DIAGRAM

MO12000TP5BWT Reverse Osmosis System Piping and Instrumentation Diagram



PIPES AND CONNECTIONS

—○—	PVC pipe	20 mm O.D.	G	parallel BSPT thread
—○—	PE hose	½" O.D.	R	tapered BSPT thread
—○—	PE hose	¾" O.D.	PVC	polyvinylchloride (solvent weld)
—○—	PE hose	1" O.D.	PE	polyethylene
—○—	PE hose	1½" O.D.	QC	quick connect collet fitting

VALVES

	Solenoid Valve
	Needle Valve
	Check Valve

INSTRUMENTS

	Pressure gauge (panel mount)
	Pressure switch (panel mount)
	Rotameter
	Conductivity probe (process mount)