

# Osmeo Elite 8''

25 000 to 35 000 L/h



## MEMBRANE SEPARATION PROCESS

### REVERSE OSMOSIS

### ELITE 8'' RO SYSTEM

Result of many years of experience, the **Osmeo** range combines compactness, ease of use and high treatment performance.

Equipped with low energy 8'' reverse osmosis membranes, the **Osmeo Elite** RO systems are controlled by a PLC with colour touchscreen and an intuitive menu allowing the adjustment of all the operating parameters. The critical parameters such as the conductivity and the flow rates are distinctly displayed together with adjustable alarm thresholds.



As an option, the Osmeo Elite RO systems can be completed with a pretreatment integrated on a stainless steel skid and adapted to the raw water specifications (pre-filtration, softening, chemical conditioning, dechlorination...)

An independent Clean-In-Place (CIP) equipment can be proposed.



## SPECIFICATIONS

## APPLICATIONS

The Osmeo range is designed to supply reverse osmosis water for the following applications :

- low pressure boilers,
- food and beverage,
- professional laundries,
- laboratories, cosmetics,
- any application requiring RO water.

1µ pre-filtration with isolating valve and upstream/downstream pressure gauges.

Automatic inlet butterfly valve.

Adjustable low inlet pressure switch.

Multi-stage vertical pump.

Valve to adjust the service pressure with pressure gauge.

Fiberglass membrane housings.

Low energy 8'' Membranes.

Conductivity probe.

Stainless Steel concentrate globe valve.

Stainless Steel recirculation globe valve.

Flush solenoid valve.

Impulse turbine to measure the permeate flow rate.

Impulse turbine to measure the concentrate and recirculation flow rates.

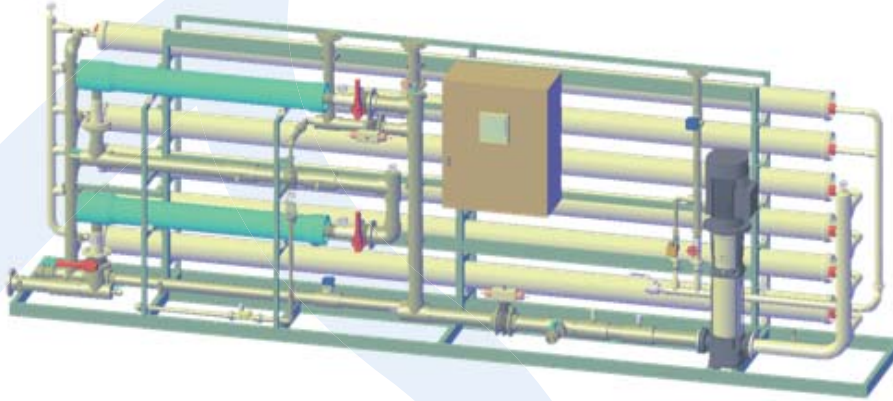
PVC Connection valve for the CIP.

Butterfly valve to drain on the permeate line.

PLC with colour touchscreen 10''.

Electrical enclosure 400V+GND.

# Osmeo Elite 8"



## OPERATING PARAMETERS

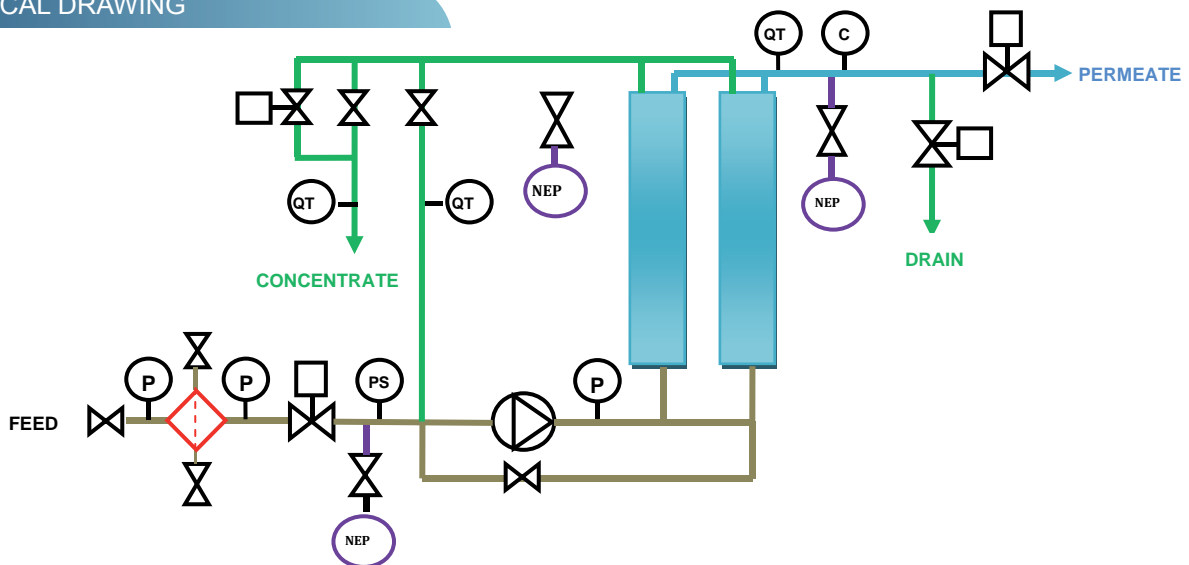
Feed pressure min/max	2 / 5 bars
Maximum temperature	37°C
TDS max	< 2000ppm
Iron+Manganese concentration	< 0.1ppm
SDI15 (fouling index)	< 3
Organic matter	< 3ppm
Free chlorine	< 0.1ppm
Minimum rejection	99.1%

## TECHNICAL DATA

MODEL	Osmeo 25 000	Osmeo 30 000	Osmeo 35 000
Permeate flow rate at 15°C for 500 ppm (L/h) *	25000	30000	35000
Concentrate flow rate (L/h)	8333	10000	11667
Feed flow rate (L/h)	33333	40000	46667
Recovery	75%	75%	75%
Number of membranes	20	25	30
Service pressure (bar)	12	12	12
Permeate counter pressure (bar)	0.5	0.5	0.5
Power (kW)	18.5	22	22
Electrical supply	3 x 400V + GND		
Connection DN (mm)	80/80/40	100/80/50	100/80/50
Feed/Permeate/Drain			
<b>Dimensions (mm)</b>			
Length	6000	6000	6000
Depth	1100	1100	1100
Height	2100	2100	2100

\* The permeate flow rate varies with the water temperature, approximately 3% per °C.

## TECHNICAL DRAWING



DELTAPORE SYSTEMS

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