

Osmeo Easy DF1

300 to 1 200 L/h



MEMBRANE SEPARATION PROCESS

REVERSE OSMOSIS

EASY 4" RO SYSTEM

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

Equipped with low energy 4" reverse osmosis membranes, the **Osmeo Easy 4"** RO systems are managed by an electronic controller which monitors the safety systems and the automatic filling of the permeate tank.

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

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



APPLICATIONS

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

- low pressure boilers,
- professional laundries,
- laboratories, cosmetics,
- car wash,
- any application requiring RO water.

SPECIFICATIONS

- Inlet isolating valve
- Pressure gauge
- Activated carbon for chlorine removal
- 1µm cartridge filtration
- Adjustable low inlet pressure switch
- Vertical multistage pump
- Valve to adjust the service pressure with pressure gauge
- Fiberglass membrane housings
- Low energy 4" Membranes
- Conductivity probe.
- Scaled flow control valve for the recirculation of the concentrate
- Flush solenoid valve.
- Flowmeter on the permeate line.
- Flowmeter on the concentrate line
- Sampling on permeate.
- 3-way quality purge valve (optional)
- Osmeo Control Plus LCD control unit

Osmeo Easy 4"

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%

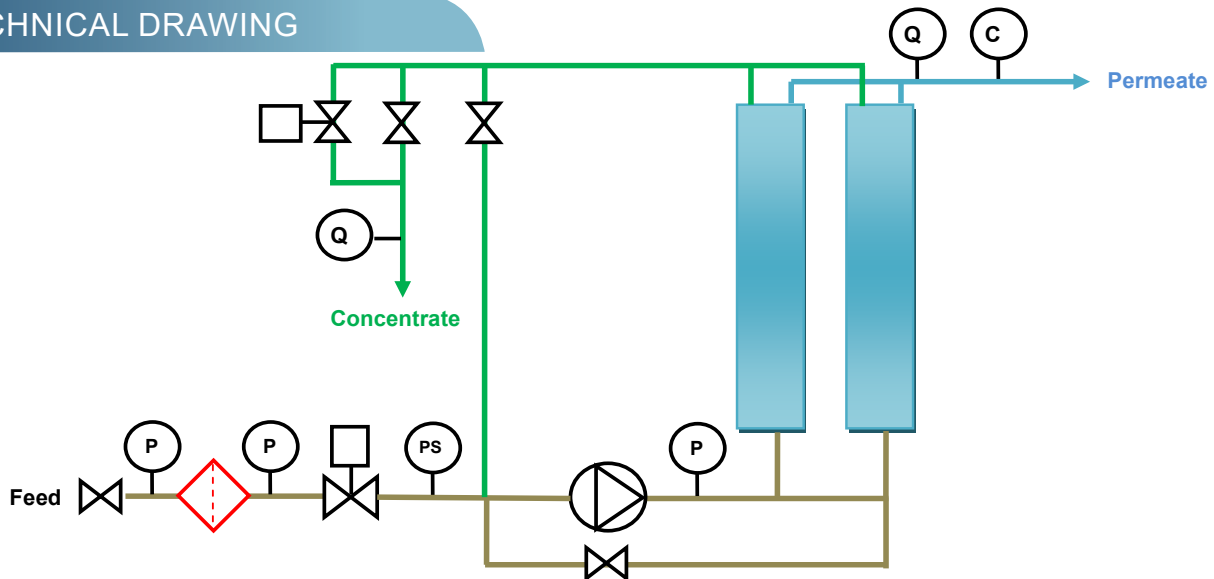


TECHNICAL DATA

MODEL	Osmeo 300 Plus	Osmeo 600 Plus	Osmeo 900 Plus	Osmeo 1200 Plus
Permeate flow rate at 15°C for 500 ppm (L/h)*	300	600	900	1200
Concentrate flow rate (L/h)	100	200	300	400
Feed flow rate (L/h)	400	800	1200	1600
Recovery	75%	75%	75%	75%
Number of membranes	1	2	3	4
Service pressure (bar)	12	12	12	12
Permeate counter pressure (bar)	0.5	0.5	0.5 <td 0.5	
Filtration type Activated Carbon	Indus 20"	Big Blue 20"	Big Blue 20"	Big Blue 20"
Filtration type 1µm	Indus 20"	Indus 20"	Indus 20"	Indus 20"
Power (kW)	1.5	2.2	2.2	2.2
Electrical supply	3x400V + Ground + Neutral			
Interface ND (mm)	20/15/15			
Feed/Permeate/Drain	20/15/15			
Dimensions (mm)				
Length	800	900	900	900
Depth	660	660	660	660
Height	1520	1520	1520	1520

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

TECHNICAL DRAWING



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