

Osmeo Mix 4"

1 500 to 2 400 L/h



MEMBRANE SEPARATION PROCESS

REVERSE OSMOSIS

OSMEO MIX 4"

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** RO systems are managed by an electronic controller which monitors the safety systems and the automatic filling of the permeate tank.

The **Osmeo Mix** range completes the reverse osmosis units with the pretreatment all included on a SS



frame skid. The pretreatment is adjusted to match the raw water quality (prefiltration, softener, active carbon filter).

The installation is therefore simple and limited to the hydraulic connections (feed, production, brine and the power supply)



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

- 25µm pre-filtration
- Duplex softener, WS.00TT valve
- Dechlorination on activated carbon cartridge
- 1µm fine filtration
- Inlet solenoid valve.
- Adjustable low inlet pressure switch.
- Multi-stage vertical 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.
- « flushing » solenoid valve
- Flowmeter on the permeate line.
- Flowmeter on the concentrate line.
- Automatism with LCD screen Osmeo Control
- Electrical enclosure 400V+T+N.
- CIP connection.

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OPERATING PARAMETERS

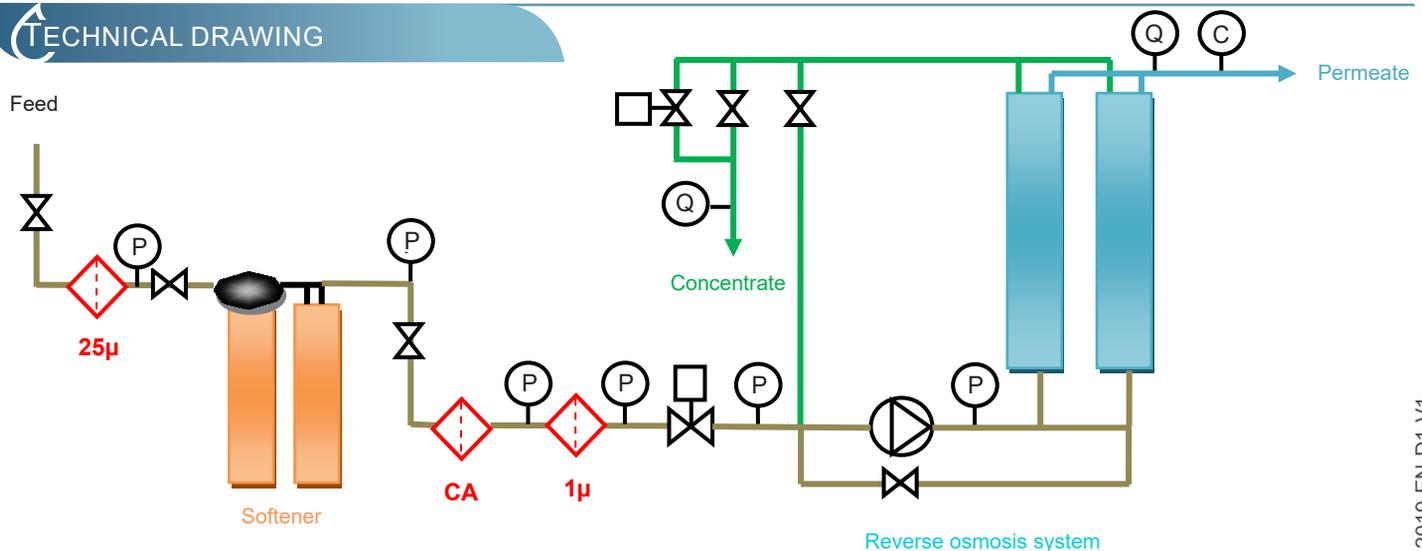
Feed pressure min/max	3 / 6 bars
Maximum temperature	37°C
Hardness	45°F
TDS max	< 2000 ppm
Iron+Manganese concentration	< 0.1 ppm
SDI ₁₅ (fouling index)	< 3
Organic matter	< 3 ppm
Free chlorine	< 0.1 ppm
Minimum rejection	99.1%

TECHNICAL DATA

Model	Osmeo4- 1500	Osmeo4- 1800	Osmeo4- 2100	Osmeo4- 2400
Permeate flow rate at 15°C for 500 ppm (L/h)*	1 500	1 800	2 100	2 400
Concentrate flow rate (L/h)	500	600	700	800
Feed flow rate (L/h)	2 000	2 400	2 800	3 200
Recovery	75%	75%	75%	75%
Number of membranes	5	6	7	8
Service pressure (bar)	12	12	12	12
Permeate counter pressure (bar)	0.5	0.5	0.5	0.5
Filtration type	NW25 + 1µm Big Blue			
Type of dechlorination	2 x CA 20" Big Blue			
Type of softener WS1.0TT	2x100L		2x125L	2x150L
Power (kW)	2,2			
Electrical supply	3x400V + Ground + Neutral			
Connection DN(mm) Feed/Permeate/Drain	25/20/15	25/20/15	25/25/15	25/25/15
Dimensions (mm)				
Length	2 500	2 500	2 600	2 800
Depth	600	600	600	600
Height	1 800	1 800	1 800	1 800

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

TECHNICAL DRAWING



ADH2OC INDUSTRIAL
 Headquarters
 3, Rue Kercoz
 22 220 TRÉGUIER - FRANCE
 Tel +33 (0)2 96 40 02 50
 Fax +33 (0)2 22 44 98 48
www.adh2oc-industrial.com

Workshop
 Lieudit «La Vallée Douard»
 28500 CHÉRISY - FRANCE
 Tel +33 (0)2 37 50 20 79
 Fax +33 (0)2 22 44 98 48
 e-mail : infos@adh2oc-industrial.com