

Osmeo Mix 4"

100 to 200 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 4021 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 (préfiltration, 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, WS1.00TT valve
- Déchloration sur cartouche de charbon actif
- 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.
- Safety valve
- Permeate recirculation solenoid valve
- Automatism with LCD screen Osmeo Control.
- Protection box 230V + Ground

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OPERATING PARAMETERS

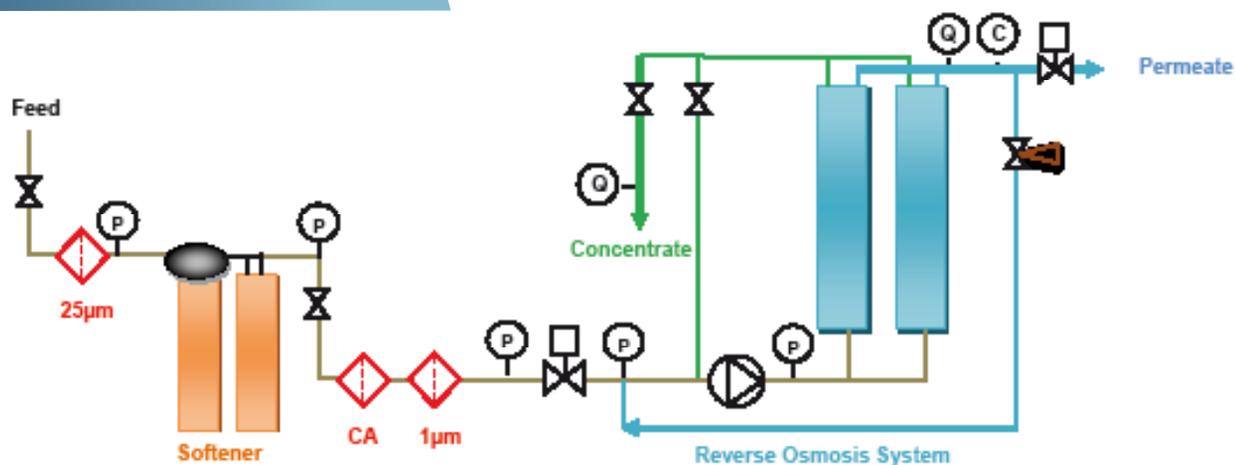
| | |
|-----------------------------------|------------|
| Feed pressure min/max | 3 / 6 bars |
| Maximum temperature | 37°C |
| Hardness | 45°F |
| TDS max | < 2000 ppm |
| Iron+Manganese concentration | < 0.1 ppm |
| SDI ₁₅ (fouling index) | < 3 |
| Organic matter | < 3 ppm |
| Free chlorine | < 0.1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

TECHNICAL DATA

| Model | Osmeo 4- 100 | Osmeo 4- 100D | Osmeo 4- 200 | Osmeo 4- 200D |
|---|---|---------------|--------------|---------------|
| Permeate flow rate at 15°C for 500 ppm (L/h)* | 100 | | 200 | |
| Concentrate flow rate (L/h) | 42 | | 84 | |
| Feed flow rate (L/h) | 142 | | 284 | |
| Recovery | 70% | | 70% | |
| Number of membranes | 1 | | 2 | |
| Service pressure (bar) | 8 | | 8 | |
| Permeate counter pressure (bar) | 0.5 | 2 to 4 | 0.5 | 2 to 4 |
| Filtration type | NW25 + CA 20" Industrial + 1µm Industrial | | | |
| Type of softener | WS1.00TT 2x15L | | | |
| Power (kW) | 1 | | | |
| Electrical supply | 230V + G | | | |
| Pressurized reservoir | No | Yes | No | Yes |
| Volume of reservoir (L) | 153 | | 153 | |
| Dimensions (mm) | | | | |
| Length | 1400 | 1750 | 1400 | 1750 |
| Depth | 450 | 450 | 450 | 450 |
| Height | 1500 | 1700 | 1500 | 1700 |
| Connection | Feed D.25 - Permeate D.20 - Drain D20 | | | |



TECHNICAL DRAWING



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