

Osmeo Sweet 4"

100 to 200 L/h



MEMBRANE SEPARATION PROCESS

REVERSE OSMOSIS

SWEET 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 Sweet** 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 independent Clean-In-Place (CIP) equipment can be proposed.



Osmeo Sweet DF



Osmeo Sweet



APPLICATIONS

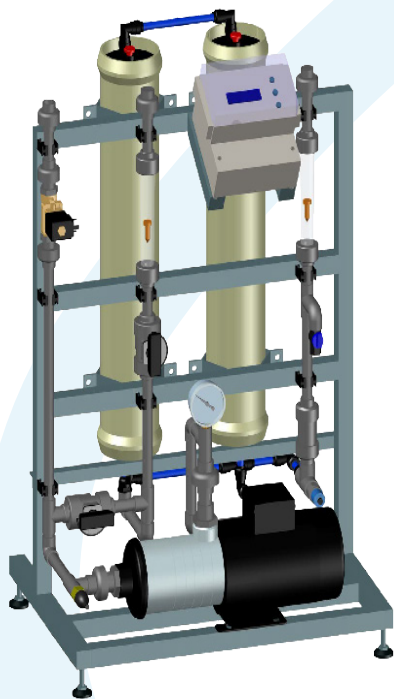
The Osmeo range is designed to supply reverse osmosis water for the following applications :

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

SPECIFICATIONS

- Isolation valve (DF Version).
- Pressure gauge 0-10 bar (DF Version).
- 20" Activated carbon filtration (DF Version).
- 20" 1µm polypropylene filtration (DF Version).
- Sample valve (DF Version).
- Inlet solenoid valve.
- Adjustable low inlet pressure switch.
- Multi-stage horizontal pump.
- Service pressure gauge.
- Fiberglass membrane housings.
- Low energy 4" Membranes.
- Conductivity probe.
- Scaled flow control valve for the recirculation of the concentrate.
- Set up valve on brine.
- Flowmeter on the permeate line.
- Flowmeter on the concentrate line.
- Sampling on permeate.
- Automatism with LCD Osmeo Control screen.
- SS frame with adjustable feet.

Osmeo Sweet 4"



OPERATING PARAMETERS

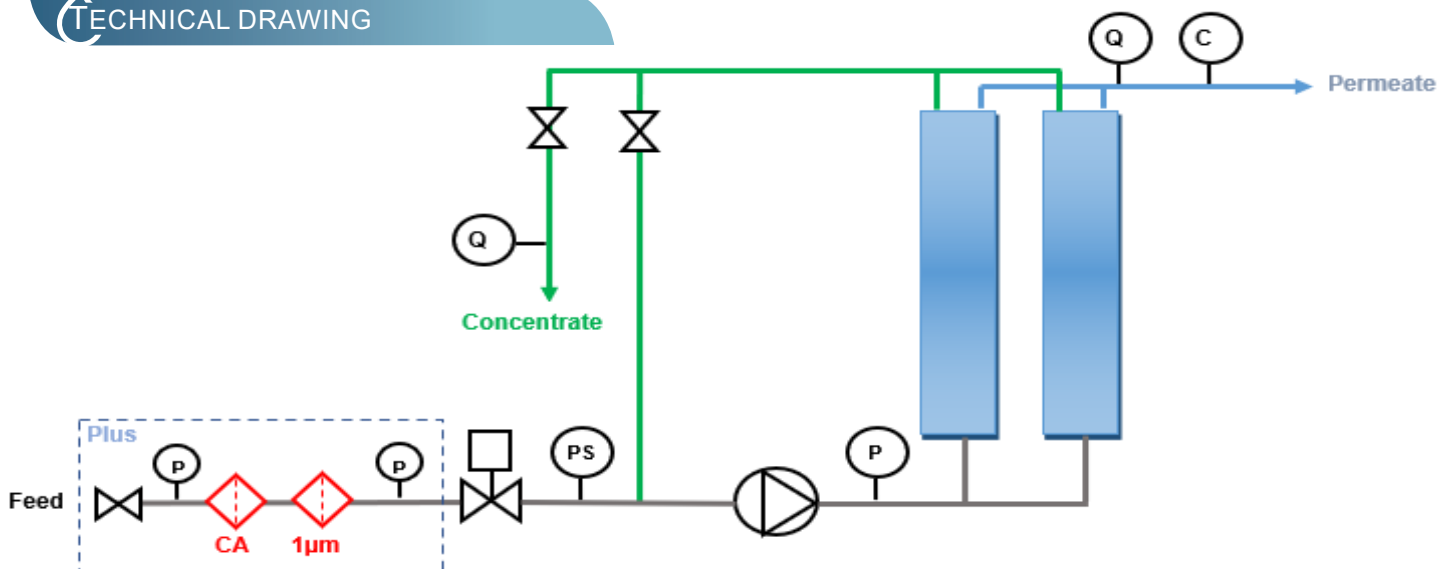
Feed pressure min/max	2 / 5 bars
Maximum temperature	37°C
TDS max	< 2000 ppm
Iron + Manganese concentration	< 0.1ppm
SDI15 (fouling index)	< 3
Organic matter	< 3ppm
Free chlorine	< 0.1ppm
Minimum rejection	99.1%

TECHNICAL DATA

Model	Osmeo 100	Osmeo 100 DF	Osmeo 200	Osmeo 200 DF
Permeate flow rate at 15°C for 500ppm (L/hh)*	100	100	200	200
Concentrate flow rate (L/h)	43	43	86	86
Feed flow rate (L/h)	143	143	286	286
Type of prefiltration	Non	AC + 1µm 20"	Non	AC + 1µm 20"
Recovery	70%	70%	70%	70%
Number of membranes	1	1	2	2
Service pressure (bar)	7	7	7	7
Permeate counter pressure (bar)	0.5	0.5	0.5	0.5
Power (kW)	0.9	0.9	0.9	0.9
Connection DN(mm) Feed/Permeate/Drain	DN15/DN15/DN15 on glue union			
Dimensions (mm)				
Length	580	750	580	750
Depth	440	440	440	440
Height	950	1470	950	1470

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

TECHNICAL DRAWING



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