

# BiOsmeo Sweet 4''

50 to 200 L/h



## MEMBRANE SEPARATION PROCESS

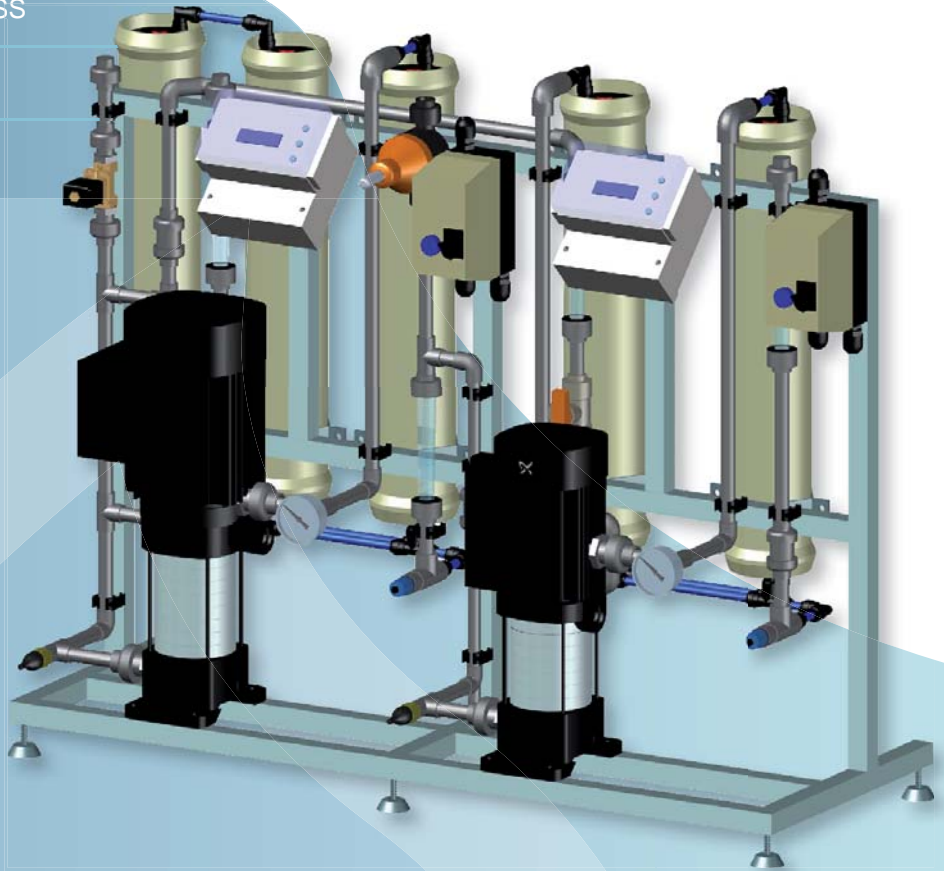
### REVERSE OSMOSIS

### SWEET 4'' BI-RO SYSTEM

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 **BiOsmeo** RO systems are managed by two microprocessors with LCD screen which monitors the safety systems and the automatic filling of the permeate tank.

The double pass RO allow to reach very low conductivity level, the production of the first reverse osmosis feed a second pass .



## APPLICATIONS

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

- vapor sterilizer water supply,
- low pressure boilers,
- professional laundries,
- laboratories, cosmetics,
- food-processing industry applications,
- any application requiring RO water.

## SPECIFICATIONS

- Inlet solenoid valve.
- Adjustable low inlet pressure switch.
- 2 multi-stage vertical pump.
- Valve to adjust the service pressure.
- Fiberglass membrane housings.
- Low energy 4021 Membranes.
- Conductivity probe.
- Scaled flow control valve for the recirculation of the concentrate.
- Flowmeter on the permeate line.
- Flowmeter on the concentrate line.
- OsmeoControl enclosure.

# BiOsmeo Sweet 4''



## OPERATING PARAMETERS

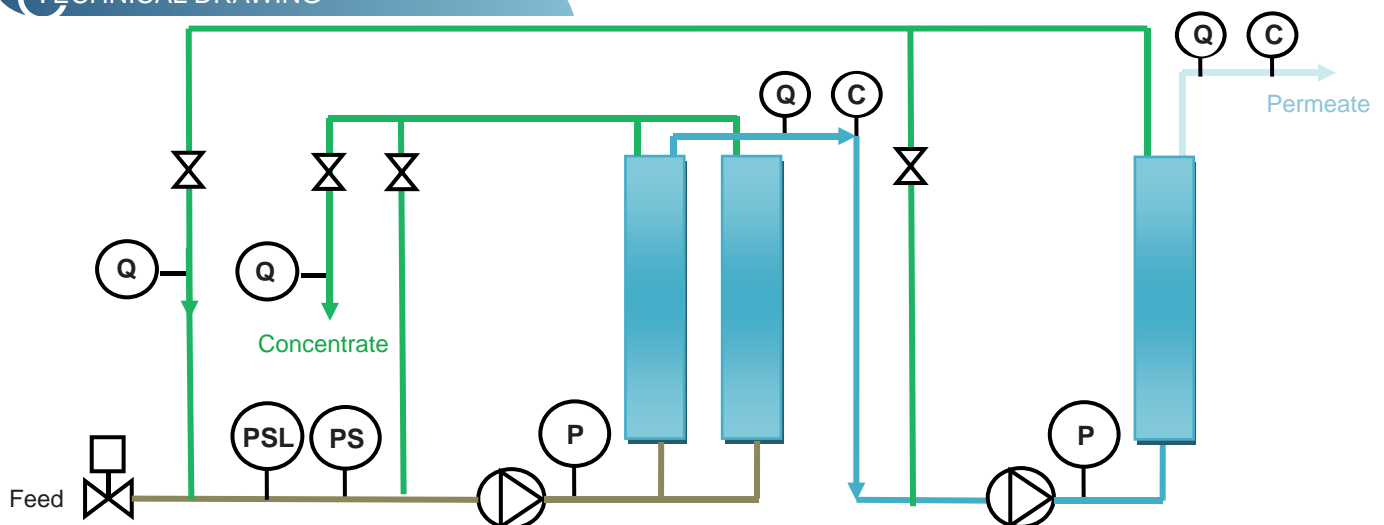
Feed pressure min/max	2 / 5 bars
Maximum temperature	37°C
TDS max	< 2000 ppm
Iron+Manganese concentration	< 0.1 ppm
SDI <sub>15</sub> (fouling index)	< 3
Organic matter	< 3 ppm
Free chlorine	< 0.1 ppm
Minimum rejection	99.1 %

## TECHNICAL DATA

MODEL	BiOsmeo 50	BiOsmeo 100	BiOsmeo 200
Permeate flow rate at 15°C for 500 ppm (L/h)*	50	100	200
Concentrate flow rate (L/h)	35	70	140
Feed flow rate (L/h)	85	170	340
Recovery	de 50 à 68% selon les eaux		
Number of membranes (1 <sup>st</sup> floor/2 <sup>nd</sup> floor)	1+1	2+1	3+2
Service pressure (bar)	7	7	7
Permeate counter pressure (bar)	0.5	0.5	0.5
Power (kW)	1.4	2.4	2.6
Electrical supply	2 x 230V - 50Hz		
<b>Dimensions (mm)</b>			
Length	1 200	1 200	1 200
Depth	450	450	450
Height	1 000	1 000	1 000

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

## TECHNICAL DRAWING



DELTAPORE SYSTEMS

Mobile : +31 6 53 39 53 17

Email : [info@deltapore.com](mailto:info@deltapore.com)

Web site : [www.deltapore.com](http://www.deltapore.com)