

BRMS-2 – Submerged MBR hollow fiber - industrial use

Moduli BRMS-2			
Model	BRMS-2-180	BRMS-2-360	BRMS-2-480
Design Flow (m³/day)	25 - 75	50 - 150	65 - 200
Total Membrane Area	180 (m ²)	360 (m ²)	480 (m ²)
Dimension (L x W x H)	1.500 x 800 x 2.000 (mm)	1.500 x 1.500 x 2.000 (mm)	1.500 x 1.500 x 2.500 (mm)
Material	Frame Stainless Steel Water manifold PVC	Frame Stainless Steel Water manifold PVC	Frame Stainless Steel Water manifold PVC
Connession	Permeated: DN50 PVC Air: DN50 AISI	Permeated: DN50 PVC Air: DN50 AISI	Permeated: DN50 PVC Air: DN50 AISI
Handling	4 lifting eyebolts + 4 support legs	4 lifting eyebolts + 4 support legs	4 lifting eyebolts + 4 support legs
Air flow Blower IN (Nm³/h)	60 - 80	120 - 160	180 - 200

Operating Conditions BRMS-2	
Operating temperature	5 – 40 °C
Operating Cleaning (pH)	2 -10
MLSS	< 10.000 mg/l
Maximum transmembrane pressure	500 mbar

Typically, submerged membrane bioreactor system requires:

- BRMS-2 modules
- Extraction pump for permeate, which is reversible and able to generate 0.4 - 0.5 bar depression during the extraction process. This pump will create a depression in the head connectors where the fibers are sealed with epoxy resin.
- Air scouring system to provide air to the membranes. Air is supplied in the form of large bubbles through specific diffusers located below the membrane modules.
- Clean-in-place circuit, with a tank for washing products and a dedicated pump when required.
- Backwash system where required.