

Product Data Sheet

C-MEM™ Modul 64-6

Industrial wastewater treatment and water reuse

PRODUCT DESCRIPTION The C-MEM™ module is an innovative, universally applicable solution for raw water and wastewater treatment. The module contains the PFAS-free, C-MEM™ hollow fibre membrane for removing particulate turbidity, bacteria, and viruses. The technology is used in various areas, including biological wastewater treatment (MBR/MBBR), water reuse, grey water and landfill leachate treatment, flue gas condensate purification in biomass power plants, and industrial wastewater treatment.

C-MEM™ MEMBRANE	Material:	HD-PE (High Density-Polyethylene)
	Medium pore size:	20 nm (0.02 µm)
	Dimensions:	Ø: 0.4 / 0.2 mm (OD / ID)
	Bundle:	approx. 1400 fibres
	Filter area per bundle:	1.5 m ²
C-MEM™ FILTER CARTRIDGE	Quantity of bundles:	4
	Filter area:	6 m ²
	Dimensions:	H: 410 mm x Ø: 165 mm
	Weight:	1.3 kg
	Connections:	1 ¼" External thread (air scouring, optional) 1 ¼" External thread (clean water)
PRODUCT SPECIFICATIONS	Number of cartridges:	64 (Filter area: 384 m ²)
	Modul / Pipe material:	Stainless steel SS304 / 1.4301
	Dimensions:	1,750 x 1,600 x 835 mm
	Weight:	approx. 250 kg (dry)
	Connections:	Clean water and air scoring: DN150
FEED REQUIREMENTS	Temperature range:	4 – 40° C / 39 - 104°F
	Solids content:	< 10 mg/l
	Dissolved substances:	< 1,000 mg/l
OPERATION INFORMATION	Flow:	up to 20 m ³ /h (at 0,5 bar)* * depending on degree of contamination/temperature
	Max. transmembrane pressure:	0.7 bar
	Max. backwash pressure:	0.5 bar
	Max. free chlorine (25°C / 77°F):	5000 ppm (9,5 pH)
	Max. total chlorine contact:	1,0 Mio ppm (hrs cumulative)
ENERGY CONSUMPTION	Spec. consumption (filtration):	approx. 0.05 kWh/m ³ (TMP: 0,5 bar; 15 LMH)*
	Spec. consumption (backwash):	approx. 0.15 kWh/m ³ (TMP: 0,5 bar; 15 LMH)* * dependent on several factors

PRODUCT HIGHLIGHTS

- Removal of particulate turbidity, bacteria and viruses up to 99.9999% (log 6 / log 5)
- EN ISO 9308 removal-tests based on Escherichia coli (ATCC 8739), Enterococcus Faecium (ATCC 19433), Brevundimonas diminuta (ATCC 19146) and Pseudomonas Phage Phi 6 (ATCC 59135)
- Membrane and other materials are in accordance with European Regulation EU No. 10/2011 and No. 1935/2004 for the use with drinking water
- Leak test of the device in accordance with ASTM D 6908:2006; "Standard Practice for Integrity Testing of Water Filtration Membrane Systems" passed
- Fully automatic control of the entire system (HMI PanelView 7 Plus Standard, Allen Bradley CompactLogix) including remote control
- No regular filter replacement needed. Service life of up to 10 years
- Low maintenance, easy cleaning, intervals dependent on degree of contamination
- Designed and made in Europe

OPTIONAL PACKAGES

- System integration into building management systems
- Booster pump (for flow and backwashing)



The information contained in this document is deemed to be accurate and reliable. Nevertheless, it should not be construed as conferring any warranty or guarantee of performance. Dimensions and membrane geometry are subject to modification due to production and process enhancements. No responsibility, obligation, or liability is assumed for any outcomes or damages resulting from the utilization of the unit.