



## Product Data Sheet

# C-MEM™ ZERO

### Water Ultra Filter

**PRODUCT DESCRIPTION** C-MEM™ Zero is an innovative, universally applicable ultrafiltration unit for raw water and drinking water treatment. C-MEM™ Zero contains the PFAS-free, C-MEM™ hollow fibre membrane for the removal of particulate turbidity, bacteria and viruses. It can be connected directly to tap water, wells, springs or other suitable raw water sources. Typical applications are holiday homes, tiny houses, disaster relief, etc.

<b>C-MEM™ MEMBRANE</b>	Material:	HD-PE (High Density-Polyethylene)
	Medium pore size:	20 nm (0.02 µm)
	Dimensions:	Ø: 0.4 / 0.2 mm (AD / ID)
	Bundle:	approx. 1,400 fibres
	Filter area per bundle:	1.5 m <sup>2</sup>
<b>C-MEM™ CARTRIDGE</b>	Quantity of bundles:	4
	Filter area:	6 m <sup>2</sup>
	Dimensions:	H: 410 mm x Ø:165 mm
	Connections:	1 ¼" External thread (air scouring, optional) 1 ¼" External thread (clean water)
<b>PRODUCT SPECIFICATIONS</b>	Tank material:	Stainless Steel 304/304L
	Weight:	11.5 kg
	Dimension:	H: 580 mm x Ø:200 mm
	Volume of tank:	12.2 l,(without cartridge)
	Valves:	Ball valves (raw/clean water, ventilation)
	Connections:	¾" External thread (raw water) ¾" External thread (clean water) ¼" External thread (ventilation)
<b>FEED REQUIREMENTS</b>	Temperature range:	4 - 40°C / 39 - 104°F
	Solids Content:	< 10 mg/l
	Dissolved substances:	< 1,000 mg/l
<b>OPERATION INFORMATION</b>	Flow*:	1.6 l/min (gravity driven, 2 meters) 16 l/min (pump driven, 2 bar)
	Pressure:	0.2 - 6.0 bar
	Max. transmembrane pressure:	3.0 bar
	Power supply:	not needed
	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)

## 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 unit in accordance with *ASTM D 6908:2006; 'Standard Practice for Integrity Testing of Water Filtration Membrane Systems'* passed
- Simple assembly/disassembly in a bigger system due to standard threaded connections
- No regular filter replacement needed. Service life of up to 10 years
- Low maintenance, easy cleaning, intervals dependent on degree of contamination
- Gravity- or pump-driven operation possible (max. 60 m / 6 bar)
- Designed and made in Europe



*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.*