



filtration

**Technical
datasheet**

WMC225 HYDRAcapLD series

Hollow fiber ultrafiltration module for water and
wastewater applications

WMC225 HYDRAcapLD series

General Information

The WMC225 HYDRAcapLD (Large Diameter) UF modules are designed for water treatment, as well as industrial and municipal wastewater reuse. The larger inner fiber diameter of these series makes these modules ideal for high turbidity application, allowing more efficient cleaning. They excel in rejecting turbidity, suspended solids, and virus and bacteria. The modules offer outstanding pH and chlorine resistance. The WMC225 HYDRAcapLD series is available in different membrane surface areas.

Membrane characteristics

Membrane material	Modified PES
Membrane fiber inner diameter	1.2 mm (0.047")
Pore size	0.02 µm
Filtration mode	Inside-Out; Vertical
Operation mode	Dead-end or cross-flow

Operating Conditions

Typical flux	50 – 100 l/m ² /h (30 – 60 gfd)
Backwash flux	100 – 250 l/m ² /h (60 - 150 gfd)
Max. system pressure	3 bar (44 psi)
Max. filtration transmembrane pressure	1.5 bar (22 psi)
Max. backwash pressure	2 bar (29 psi)
Max. active chlorine concentration	500 ppm @ pH>10
Max. cumulative active chlorine exposure	250,000 ppm-hours @ pH>10
Max. turbidity	200 NTU
Max. Temperature during operation & cleaning	40°C (104°F)
pH range during operation	2-12
pH range during cleaning	1-13

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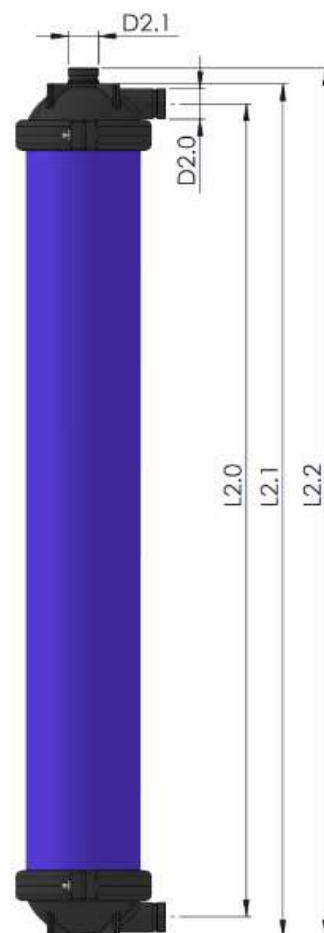
Module Specification

Materials of Construction

	HYDRAcap40LD	HYDRAcap60LD
Housing	PVC-U	PVC-U
Internals	ABS, PP, PVC-U	MBS, PP, Noryl
Potting	Epoxy resin	Epoxy resin

Dimensions

	HYDRAcap40LD	HYDRAcap60LD
Membrane Surface Area	19.3 m ² (208 ft ²)	30 m ² (323 ft ²)
L2.0	1092 mm (43")	1600 mm (63")
L2.1	1172 mm (46.13")	1680 mm (66.13")
L2.2	1202 mm (47.32")	1710 mm (67.32")
D2.0	60.3 mm (2.37")	60.3 mm (2.37")
D2.1	60.3 mm (2.37")	60.3 mm (2.37")



Available Module types

	WMC225 HYDRAcap40LD	WMC225 HYDRAcap60LD
Product-Code	SETUF0031	SETUF0034

Storage Information

New modules in original packaging can be stored for max. 1 year from shipping date in a dry place, protected from sunlight or any heat source, at temperatures between 1 and 40°C (33 and 104°F);

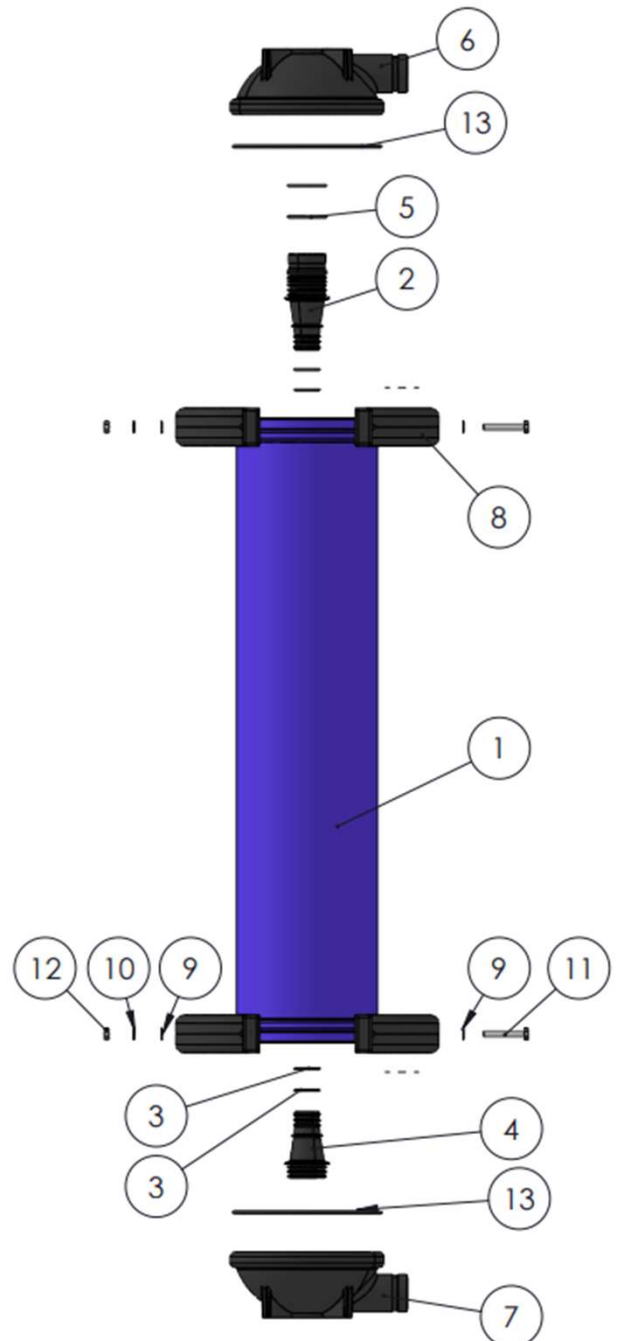
Ex-factory storage solution: 84wt% water, 15wt% glycerin and 1wt% sodium metabisulfite;

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Connection Configuration

Assembly Components

(1)	WMC225 HYDRAcapLD Module
(2)	Product end adapter
(3)	O-ring #2-221 E70-150
(4)	Plug Dead End
(5)	O-ring #2-228 E70-150
(6)	End cap Molded Ported
(7)	End Cap Molded Nonported
(8)	Plastic Clamp 4 Molded Endcap
(9)	Washer D125-1A-M10-GALV
(10)	Spring Washer D127B-M10-GALV
(11)	Hex Bolt D931-M10x65-8.8zp
(12)	Hex Nut D934-M10-Gr.08 zp
(13)	O-ring #2-373 E70-150



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Weight Information

Weight	WMC225 HYDRAcap40LD	WMC225 HYDRAcap60LD
Empty weight Module including assembly components	24 kg (53 lbs)	34 kg (75 lbs)
Empty module including assembly components	55 kg (121 lbs)	84 kg (185 lbs)

Shipping Information

Modules are packed according to shipment size.

For small quantities, they are shipped individually in cardboard boxes.

For larger shipments, modules are loaded into wooden crates, with max.12 modules per crate:

- Crate dimensions WMC225 HYDRAcap40LD: 100 x 125 x 173 cm; 40 x 50 x 68 in (L x W x H)
- Crate dimensions WMC225 HYDRAcap60LD: 100 x 125 x 191 cm; 40 x 50 x 75 in (L x W x H)

Weight stated is shipping weight including preservative solution.

Shipping weight	WMC225 HYDRAcap40LD	WMC225 HYDRAcap60LD
Shipping weight per module	29 kg (64 lbs)	41 kg (90 lbs)
Shipping weight per crate (12 modules)	350 kg (772 lbs)	475 kg (1047 lbs)

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