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HYDRAMEM®
HIGH PERFORMANCE MEMBRANES

HYDRAMEM PureULTRA PHF-80-V UF Pressure-Driven UF Modules

HYDRAMEM PureULTRA modules feature Polyvinylidene Fluoride (PVDF) hollow fiber UF membrane that offers high chemical tolerance along with physical robustness. The tight pore size helps in removal of solids, pathogens and other suspended foulants. The unique PVDF polymer allows the membrane modules to be cleaned aggressively without decline in operating flux and loss of membrane hydrophilicity. The membrane module design and optimum operating sequences provide consistent filtration efficiency and durability. HYDRAMEM PureULTRA UF modules can be used for a wide range of applications while treating the entire spectrum of feed waters from sea, surface, well and secondary & tertiary wastewaters – both industrial and municipal.

This product specification sheet provides an overview of relevant technical data regarding HYDRAMEM PureULTRA modules.

Membrane Specifications:

Membrane Polymer	Polyvinylidene Fluoride (PVDF)
Nominal Pore Size	0.025 μm
Membrane Type	Hollow Fiber
Hollow Fiber Diameter OD / ID	1.3 mm / 0.7 mm (0.051 inch / 0.028 inch)

Module Specifications:

Model	PHF-80-V
Nominal Membrane Area	80 m^2 (861 ft^2)
Housing Material	UPVC
Membrane Potting	Epoxy / PU
Filtration / Backwash Flow Path	Out → In / In → Out
Operating Mode	Dead-End / Cross-Flow
Preservative	Sodium meta-bisulphite



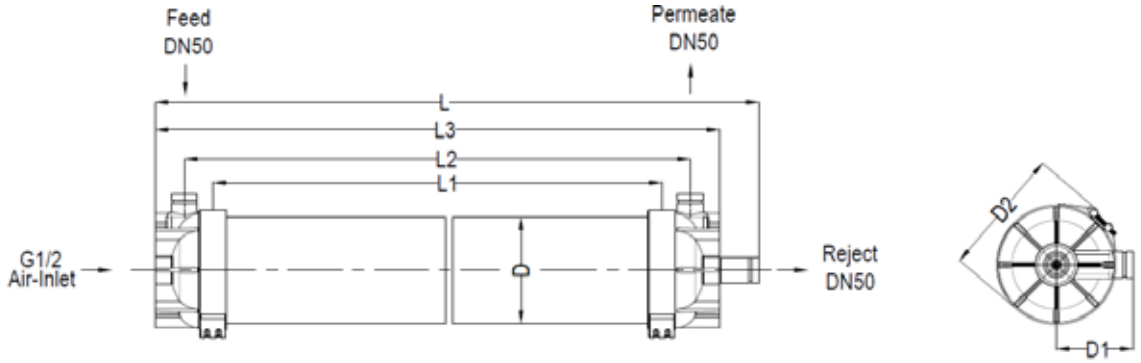
Operating Parameters:

Filtrate Flow Range	2.8 – 8.8 m^3/h (12.3 – 38.7 gpm)
Maximum Feed Pressure (at 20°C / 68°F)	6.4 bar (92.8 psi)
Maximum Transmembrane Pressure	2.3 bar (33.4 psi)
Maximum Backflush Pressure	2.7 bar (39.2 psi)
Typical Air Scour Rate	5 – 14 m^3/h (3.0 – 7.1 SCFM)
Air Scour Pressure	0.6 - 1.2 bar (max)
pH Range for Operation	2.0 – 11.0
Temperature Range	1 – 40°C (33.8 – 104°F)

Cleaning Parameters:

pH Range	2.0 – 12.0
Maximum Temperature	40°C (104 °F)
Maximum Active Chlorine Concentration	3000 ppm
Maximum Active Chlorine Exposure	≤1,000,000 ppm·hour
Cleaning Chemicals	Sodium Hypochlorite, caustic, hydrochloric acid / sulfuric acid / citric acid

Physical Dimensions:



Model	L	L1	L2	L3	D	D1	D2
PHF-80-V	1860 mm (73.2 in)	1500 mm (59.1 in)	1630 mm (64.2 in)	1768 mm (69.6 in)	250 mm (9.8 in)	180 mm (7.1 in)	300 mm (11.8 in)

Dry / Wet Weight	54 kg (119 lb) / 106 kg (234 lb)
Housing Diameter (D)/ Module max. Installation Diameter (D2)	250 mm (9.8 in) / 300mm (11.8")
Module Diameter	250 mm (9.8 in)
Module Length	1860 mm (73.2 in)
Feed / Reject Port	2" Victaulic
Permeate Port	2" Victaulic

Important Information:

Storage & Handling: HYDRAMEM PureULTRA modules must be handled and stored appropriately to ensure proper operation and to prevent membrane damage. Please see the HYDRAMEM PureULTRA Operation and Maintenance Manual.

Installation & Start-Up: HYDRAMEM PureULTRA modules must be installed correctly before start-up. For a detailed installation and start-up procedure, please see the HYDRAMEM PureULTRA Operation and Maintenance Manual.

Cleaning: HYDRAMEM PureULTRA modules must be cleaned routinely via backwash to ensure proper operation and to prevent membrane damage. Please see HYDRAMEM PureULTRA Product Manual.

Note:

Backwash / CEB / CIP frequency & duration shall be as per the design based on the feed water source, quality & fluctuations

Important Warnings & Information:

1. For the recommended design range & guidelines, please follow this technical bulletin or call an application specialist. If the operating limits given in this product information bulletin are not strictly followed, the warranty will be null and void.
2. The customer is fully responsible for the effects of chemicals that are incompatible with the membrane modules.

HYDRAMEM® HIGH PERFORMANCE MEMBRANES is the registered trademark of Ion Exchange (India) Ltd.

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ION EXCHANGE (INDIA) LTD.

Corporate Office
Ion House, Dr. E. Moses Road, Mahalaxmi,
Mumbai - 400011 | Tel: +91 22 6231 2000
E-mail: ieil@ionexchange.co.in

International Division
R-14, T.T.C MIDC, Thane - Belapur Road, Rabale,
Navi Mumbai - 400 701 | Tel: +91 22 6857 2400
E-mail: export.sales@ionexchange.co.in

Regional and Branch Offices
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