PURON® HF HIGH FLOW MODULES

Hollow Fiber Submerged Membrane Modules for Water and Wastewater Treatment Applications

PRODUCT DESCRIPTION

Membrane Chemistry:	Proprietary PVDF
Membrane Type:	Braided hollow fiber for outside-in operation
Fiber Support Chemistry:	Polyester
Nominal Pore Size:	0.03 µm
Outside Fiber Diameter:	0.1 inch (2.6 mm)
Regulatory Information:	- Accepted by California Department of Public Health (CDPH) for compliance with California Water Recycling Criteria (Title 22) - Classified by UL to NSF/ANSI Standard 61 and in accordance with NSF/ANSI Standard 372
Potting Material:	Proprietary epoxy compound
Module Frame Material:	316 Stainless Steel
Permeate Collection Tube Material:	ABS, PVC, PE manifolds
Storage Solution:	Glycerin

PRODUCT SPECIFICATIONS

Model	Membrane Area ft²	(m²)	Rows Per Module
PHF 480	5,167	(480)	9
PHF 960	10,334	(960)	18
PHF 2650	28,525	(2,650)	50

OPERATING & DESIGN INFORMATION*

Temperature Range:	41 - 104°F (5 - 40°C)
Maximum Filtration Transmembrane Pressure:	11.5 psi (0.8 bar)**
Maximum Backflush Transmembrane Pressure:	9 psi (0.6 bar)
Allowable pH Range for Cleaning	2.0 – 10.5
Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:	1,000 ppm @ pH 8 or higher during maintenance clean
Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:	2,000 ppm @ pH 8 or higher during recovery clean
Maximum Allowed Total Chlorine Contact:	500,000 ppm-hrs cumulative

* *Consult Process Technology Group for specific applications.*
** *Dependent on atmospheric conditions*

NOMINAL DIMENSIONS & WEIGHT*

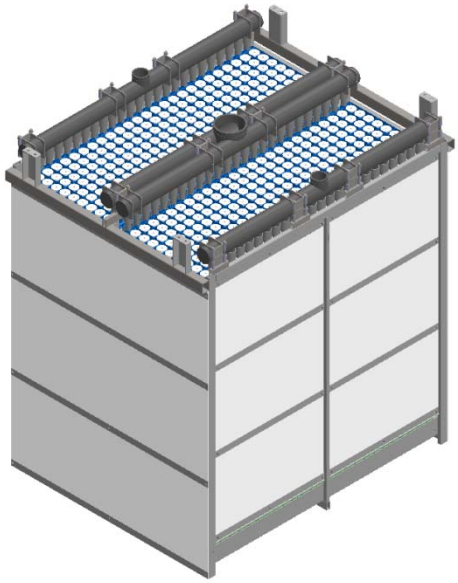
Model	Length Inches	(mm)	Width Inches	(mm)	Height Inches	(mm)	Dry Weight Pounds	(kg)
PHF 480	35.67	(906)	35.16	(893)	98.03	(2,490	979	(445)
PHF 960	65.43	(1,662)	35.16	(893)	99.41	(2,525)	1,777	(803)
PHF 2650	88.35	(2,244)	69.10	(1,755)	99.61	(2,530)	4,558	(2,072)

** See schematic diagrams next page.*

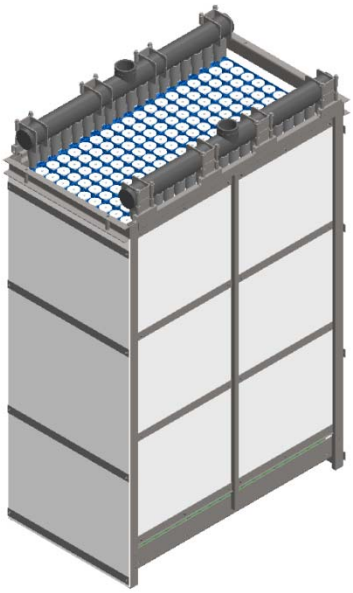
CONNECTIONS*

Model	Type	Permeate	Air
PHF 480	Grooved Coupling	3” IPS	3” IPS
PHF 960	Grooved Coupling	4” IPS	4” IPS
PHF 2650	Grooved Coupling	8” IPS	4” IPS (2X)

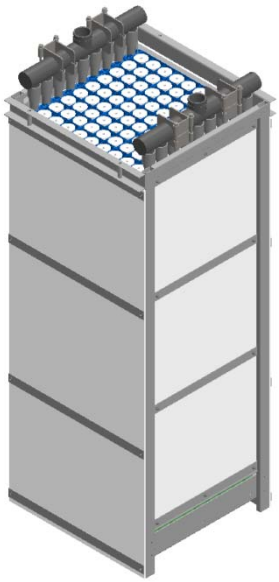
**Connection kits available.*



PHF 2650



PHF 960



PHF 480

Module Transport and Storage Conditions:

Storage of Unused PURON HF Modules

PURON modules should be stored within a temperature range of 41 to 77°F (5 to 25°C) in the original packaging material. Extended exposure to UV source must be avoided. The PURON modules must not be stored for longer than 3 months after delivery.

Transport of PURON HF Modules

During transport, PURON modules should be stored within a temperature range of 23 to 113°F (-5 to 45°C), but they should not be kept at temperature outside the normal storage range of 41 to 77°F (5 to 25°C) for more than 6 weeks.

When the PURON modules are being transported by ship, the PURON module should be placed in seaworthy packaging and stored at ambient temperature, provided that such temperature is within the temperature range specified herein.

Dry-Out Protection and Storage of Used PURON HF Modules

Once a PURON module has been immersed in an aqueous medium, it should never be stored dry. If storage is necessary, the module must be kept wet by keeping it submerged in a storage solution. Please consult KMS for more details in case of short or long term storage of your PURON modules.

If used PURON modules are permitted to dry out, membrane performance, such as permeability, may be adversely affected. Please consult KMS to see what steps may be taken to try to reverse such negative effects.

Proper Handling of PURON HF Modules

Utmost care should be taken at all times when handling the PURON module. Collisions, impact or hitting the ground in a rough manner may damage modules or connections.

Keep the PURON modules free from contact with sharp or abrasive objects or exposure to heat sources. Actions that may cause sparks (e.g. welding, grinding) should be strictly prohibited in the vicinity of the modules.

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Koch Membrane Systems, Inc., www.kochmembrane.com

Corporate Headquarters: 850 Main Street, Wilmington, Massachusetts 01887-3388, US, Tel. Toll Free: 1-888-677-5624, Telephone: 1-978-694-7000, Fax: 1-978-657-5208
European Headquarters: Koch Chemical Technology Group Ltd., Units 3-6, Frank Foley Way, Stafford ST16 2ST, GB, Telephone: +44-178-527-2500, Fax: +44-178-522-3149

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