DATASHEET

KOVALUS Separation Solutions™

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. Certified to be compliant with Italian D.M. 174 of 6 April 2004, under ICIM Norm 0415CS.
Potting Material:	Proprietary epoxy compound
Module Frame Material:	316 Stainless Steel
Permeate Collection Tube Material:	ABS, PVC, PE manifolds
Storage Solution:	Glycerin

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

OPERATING AND 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:	1,000,000 ppm-hrs cumulative

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

NOMINAL DIMENSIONS & WEIGHT*								
	Length		Width		Height		Dry Weight	
Model	**inches**	**mm**	**inches**	**mm**	**inches**	**mm**	**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.

MODULE TRANSPORT AND STORAGE CONDITIONS

Storage of Unused PURON 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 12 months after delivery.

Transport of PURON 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

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 KSS 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 KSS 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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