

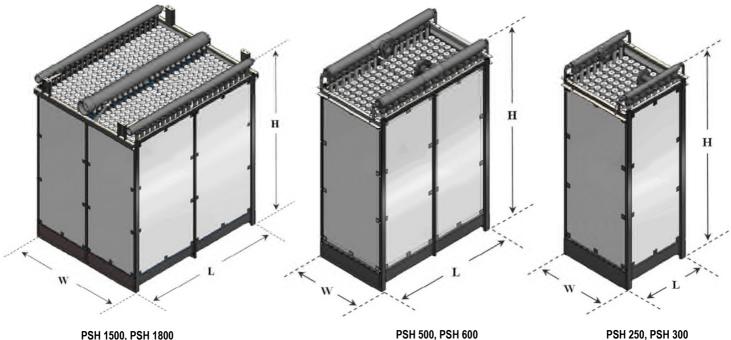
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PURON[®] HOLLOW FIBER MODULES

Hollow Fiber Submerged Membrane Modules for MBR Applications

PRODUCT DESCRIPTION	Membrane Chemistry: Membrane Type: Fiber Support Chemistry: Nominal Pore Size: Outside Fiber Diameter: Regulatory Information: Potting Material: Module Frame Material: Permeate Collection Tube Material: Storage Solution:		Proprietary PVDF Braided hollow fiber for outside-in operation Polyester 0.03 µm 0.1 inch (2.6 mm) Accepted by California Department of Public Health (CDPH) for compliance with California Water Recycling Criteria (Title 22) Proprietary epoxy compound 316 Stainless Steel ABS, PVC, PE manifolds Glycerin			
PRODUCT SPECIFICATIONS	Model PSH 250 PSH 300 PSH 500 PSH 600 PSH 1500 PSH 1800	Membrane Area ft ² (m ²) 2,690 (250) 3,230 (300) 5,380 (500) 6,460 (600) 16,150 (1,500) 19,375 (1,800)	1 1 2	er Module 8 8 16 16 14 14		
OPERATING & DESIGN INFORMATION*	Temperature Range:41 - 104°F (5 - 40°C)Maximum Filtration Transmembrane Pressure:9 psi (0.6 bar)Maximum Backflush Transmembrane Pressure:9 psi (0.6 bar)Allowable pH Range for Cleaning2.0 - 10.5Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:1,000 ppm @ pH 8 or higher during maintenance cleanMaximum Allowed Total Chlorine @ 95°F (35°C) or Lower:2,000 ppm @ pH 8 or higher during recovery cleanMaximum Allowed Total Chlorine Contact:500,000 ppm-hrs cumulative					
NOMINAL DIMENSIONS & WEIGHT*	Model PSH 250 PSH 300 PSH 500 PSH 600 PSH 1500 PSH 1800 * See schematic diag	L Inches (mm) 35.67 (906) 35.67 (906) 65.43 (1,662) 65.43 (1,662) 88.35 (2,244) 88.35 (2,244) rams gert page	W Inches (mm) 35.16 (893) 35.16 (893) 35.16 (893) 35.16 (893) 35.16 (893) 69.10 (1,755) 69.10 (1,755)	95.35	(mm) (2,384) (2,384) (2,422) (2,422) (2,530)	Dry Weight Pounds (kg) 660 (300) 715 (325) 1,210 (550) 1,265 (575) 2,860 (1,300) 3,434 (1,570)
CONNECTIONS	See screenate oleg Model PSH 250 PSH 300 PSH 500 PSH 600 PSH 1500 PSH 1800	Permeate		Air Type C Flange Flange Flange Flange Pipe Pipe	Dutside Diame DN 50 DN 50 DN 80 DN 80 Ø 110 Ø 110	eter (mm)

PURON® HOLLOW FIBER MODULES



PSH 1500, PSH 1800

Module Transport and Storage Conditions:

Storage of PURON Modules

Storage of PURON modules should be carried out at ambient temperature (41 to 77°F / 5 to 25°C). Extended exposure to UV source must be avoided. The PURON modules must not be stored for longer than 3 months on site

Transport of PURON Modules

Transport of PURON modules should be carried out at ambient temperature (23 to 113°F / -5 to 45°C).

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 between 23 and 113°F (-5 and 45°C).

Dry-up Protection

Once the PURON hollow fiber module has been commissioned with an aqueous medium, it should never be stored dry. If the membrane plant is not operated for 7 days or less, the module may be kept wet by keeping it submerged in the biomass, provided the following conditions are met:

- The biomass is healthy and is aerated and the recirculation of biomass over the membrane chamber is functioning properly.
- The module is fully submerged in the biomass.
- The module aeration is switched on every 30 minutes for a period of 1 minute to assure mixing of sludge inside the module.

Storage of Used Modules

If the idle period is longer than 7 days, immersion in a storage solution is required. Proceed as follows:

- · Submerge the module fully in potable water. Start the aeration for at least 3 to 4 hours, drain the tank and finally refill with fresh water again.
- · Add sodium hypochlorite to form a solution of concentration of 10 mg/l total chlorine at pH between 5.5 and 7.5.
- · Check the chlorine concentration daily. If the concentration of total chlorine drops below 5 mg/l additional dosage of sodium hypochlorite is necessary.

Long-term Storage

If a dry-up cannot be avoided due to transport or if the idle period is longer than 21 days, the module has to be conditioned. Please consult KMS for more details

Proper Handling

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

Precautions When Working Near the Hollow Fiber Module

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

The information contained in this publication is believed to be accurate and reliable, but is not to be construed as implying any warranty or guarantee of performance. We assume no responsibility, obligation or liability for results obtained or damages incurred through the application of the information contained herein. Refer to Standard Terms and Conditions of Sale and Performance Warranty documentation for additional information

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