

PURON® HOLLOW FIBER DEMO ROWS

Hollow Fiber Submerged Membrane Demo Row for MBR and Tertiary Applications

PRODUCT DESCRIPTION Membrane Chemistry: Proprietary PVDF

Braided hollow fiber for outside-in operation Membrane Type:

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)

Potting Material: Proprietary epoxy compound

Storage Solution: Glycerin

PRODUCT SPECIFICATIONS Model Membrane Area ft² (m²) Single bundle Demo Module 5 (0.5) Triple bundle Demo Module 15 (1.4)

OPERATING & DESIGN **INFORMATION*** Temperature Range:

Maximum Filtration Transmembrane Pressure: 9 psi (0.6 bar) Maximum Backflush Transmembrane Pressure: 9 psi (0.6 bar)

Allowable pH Range for Cleaning:

Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower: Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:

Maximum Allowed Total Chlorine Contact: Typical Air Flow Rate Per Bundle: Typical Permeate Flow Rate Per Bundle:

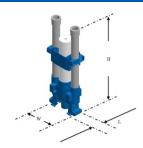
41 - 104°F (5 - 40°C)

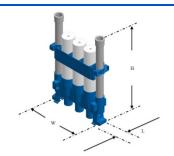
2.0 - 10.5

1,000 ppm @ pH 8 or higher during maintenance clean 2,000 ppm @ pH 8 or higher during recovery clean

500,000 ppm-hrs cumulative 1-2 Nm³/hr (0.6-1.3 scfm) 5-15 L/hr (1.3-4.0 Gal/hr)

NOMINAL DIMENSIONS & WEIGHT





Model	L	W	H	Dry Weight
	Inches (mm)	Inches (mm)	Inches (mm)	Pounds (kg)
Single bundle	3.62 (92)	7.36 (187)	20.87 (530)	3.0 (1.4)
Triple bundle	3.62 (92)	13.70 (348)	20.87 (530)	5.5 (2.5)

All connections: d40 threaded union

^{*} Consult Process Technology Group for specific applications.

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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 3 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 the PURON module has been immersed in 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 shutdown period is longer than 7 days, immersion in a storage solution is required. Please consult KMS for more information.

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 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.

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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