

PURON[®] HOLLOW FIBER ROWS

Hollow Fiber Submerged Membrane Row for MBR Applications

PRODUCT DESCRIPTION

Membrane Chemistry: Proprietary PVDF
Membrane Type: Braided hollow fib

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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)

 PSH 31
 330 (31)

 PSH 37
 400 (37)

 PSH 34
 370 (34)

 PSH 41
 440 (41)

OPERATING & DESIGN INFORMATION*

Temperature Range:
Maximum Filtration Transmembrane Pressure:

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

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:

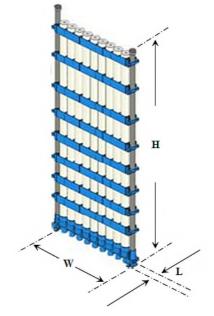
Maximum Allowed Total Chlorine Contact:

41 - 104°F (5 - 40°C) 9 psi (0.6 bar) 9 psi (0.6 bar) 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

NOMINAL DIMENSIONS & WEIGHT



Model	L	W	H	Dry Weight
	Inches (mm)	Inches (mm)	Inches (mm)	Pounds (kg)
PSH 31, PSH 37	3.62 (92)	32.60 (828)	84.68 (2,151)	50.7 (23)
PSH 34, PSH 41	3.62 (92)	32.60 (828)	91.30 (2,319)	55.1 (25)

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

PURON® HOLLOW FIBER ROWS

PURON® Row Transport and Storage Conditions:

Storage of PURON Rows

Storage of PURON rows 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 rows must not be stored for longer than 3 months on site.

Transport of PURON Rows

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

When the PURON rows are being transported by ship , the PURON row 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 row 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 row 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 row is fully submerged in the biomass.
- The row aeration is switched on every 30 minutes for a period of 1 minute to assure mixing of sludge inside the row.

Storage of Used PURON Rows

If the idle period is between 7 and 21 days, immersion in a storage solution is required. Proceed as follows:

- Submerge the row fully in potable water. Run the aeration for at least 4 hours, drain the tank and 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 the idle period is longer than 21 days, the row has to be conditioned. Please consult KMS for more details.

Proper Handling

Utmost care at any time should be taken when handling the row. Rough handling (e.g. dropping, collisions, etc.) may damage rows or connections.

<u>Precautions When Working Near the PURON Hollow Fiber Row</u>
Keep the PURON hollow fiber rows free from contact with sharp objects or exposure to heat sources. Actions that may cause sparks (e.g. welding, grinding) should be strictly prohibited in proximity to the PURON hollow fiber rows.

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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