DATASHEET

KOVALUS Separation Solutions™

PULSION® Hollow Fiber Rows

PURON® Hollow Fiber Submerged Membrane Row for MBR Applications

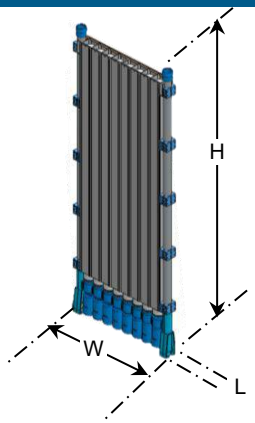
PRODUCT DESCRIPTION	
Membrane Chemistry:	Proprietary PVDF
Membrane Type:	Braided hollow fiber for outside-in operation
Fiber Support Chemistry:	Polyester
Nominal Pore Size:	0.03 µm
Outside Fiber Diameter:	0.1 inch (2.6 mm)
Regulatory Information:	Accepted by California Department of Public Health (CDPH) for compliance with California Water Recycling Criteria (Title 22)
Potting Material:	Proprietary epoxy compound
Storage Solution:	Glycerin

PRODUCT SPECIFICATIONS	
Model	**Membrane Area ft² (m²)**
0728323	468 (43.5)
0728324	380 (35.3)

OPERATING AND 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 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.

NOMINAL DIMENSIONS & WEIGHT



	L		W		H		Dry Weight	
Model	**inches**	**mm**	**inches**	**mm**	**inches**	**mm**	**Pounds**	**kg**
0728323	3.2	83	33.6	853	$93^{13}/_{16}$	2,382	108	49
0728324	3.2	83	33.6	853	$79^{13}/_{16}$	2,026	100	45

Connections: Socket coupling. Connection kit is required for pilot use.

TRANSPORT AND STORAGE CONDITIONS:

Storage of Unused PURON® Rows

PURON rows 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® rows must not be stored for longer than 12 months after delivery.

Transport of PURON® Rows

During transport, PURON® rows 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® 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 within the temperature range specified herein.

Dry-Out Protection

Once the PURON® row 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 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 module.

Storage of Used Rows

If the shutdown period is longer than 7 days, immersion in a storage solution is required. Please consult KSS for more information.

If used PURON® rows 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® Rows

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

Keep the PURON® rows 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 rows.

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