



PURON[®] HOLLOW FIBER MODULES

Hollow Fiber Submerged Membrane Modules 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 |
| Module Frame Material: | 316 Stainless Steel |
| Permeate Collection Tube Material: | ABS, PVC, PE manifolds |
| Storage Solution: | Glycerin |

PRODUCT SPECIFICATIONS

| Model | Membrane Area ft ² (m ²) | Rows per Module |
|----------|---|-----------------|
| PSH 95 | 1,020 (95) | 3 |
| PSH 440 | 4,735 (440) | 14 |
| PSH 520 | 5,597 (520) | 14 |
| PSH 1650 | 17,760 (1,650) | 44 |

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 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: | 500,000 ppm-hrs cumulative |

* Consult Process Technology Group for specific applications.

NOMINAL DIMENSIONS & WEIGHT*

| Model | L | | W | | H | | Dry Weight | |
|----------|-------------|---------|-------------|---------|-------------|---------|-------------|---------|
| | Inches (mm) | | Inches (mm) | | Inches (mm) | | Pounds (kg) | |
| PSH 95 | 17.55 | (446) | 35.16 | (893) | 81.10 | (2,060) | 361 | (164) |
| PSH 440 | 28.74 | (730) | 69.10 | (1,755) | 84.16 | (2,137) | 1,017 | (461) |
| PSH 520 | 28.74 | (730) | 69.10 | (1,755) | 97.13 | (2,467) | 1,157 | (525) |
| PSH 1650 | 88.35 | (2,244) | 69.10 | (1,755) | 95.81 | (2,434) | 3,261 | (1,479) |

* See Outline drawings for details

CONNECTIONS

| Model | Permeate | | Air | |
|----------|------------------|--------|------------------|-------------|
| | Type | Size | Type | Size |
| PSH 95 | Flange | DN 50 | Flange | DN 50 |
| PSH 440 | Grooved Coupling | 3" IPS | Grooved Coupling | 2" IPS (2x) |
| PSH 520 | Grooved Coupling | 3" IPS | Grooved Coupling | 2" IPS (2x) |
| PSH 1650 | Grooved Coupling | 6" IPS | Grooved Coupling | 3" IPS (2x) |

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Koch Membrane Systems, Inc., www.kochmembrane.com

Corporate Headquarters: 850 Main Street, Wilmington, Massachusetts 01887-3388, US, Tel. Toll Free: 1-888-677-5624, Telephone: 1-978-694-7000, Fax: 1-978-657-5208
 European Headquarters: Koch Chemical Technology Group Ltd., Units 3-6, Frank Foley Way, Stafford ST16 2ST, GB, Telephone: +44-178-527-2500, Fax: +44-178-522-3149

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