

# PULSION™ HOLLOW FIBER MODULES

*PURON® Hollow Fiber Submerged Membrane Modules for MBR Applications*

## PRODUCT DESCRIPTION

|                                           |                                                                                                                              |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Membrane Chemistry:</b>                | Proprietary PVDF                                                                                                             |
| <b>Membrane Type:</b>                     | Braided hollow fiber for outside-in operation                                                                                |
| <b>Fiber Support Chemistry:</b>           | Polyester                                                                                                                    |
| <b>Nominal Pore Size:</b>                 | 0.03 µm                                                                                                                      |
| <b>Outside Fiber Diameter:</b>            | 0.1 inch (2.6 mm)                                                                                                            |
| <b>Regulatory Information:</b>            | Accepted by California Department of Public Health (CDPH) for compliance with California Water Recycling Criteria (Title 22) |
| <b>Potting Material:</b>                  | Proprietary epoxy compound                                                                                                   |
| <b>Module Frame Material:</b>             | 316 Stainless Steel                                                                                                          |
| <b>Permeate Collection Tube Material:</b> | ABS, PVC, PE manifolds                                                                                                       |
| <b>Storage Solution:</b>                  | Glycerin                                                                                                                     |

## PRODUCT SPECIFICATIONS

| Model | Nominal Membrane Area ft <sup>2</sup> (m <sup>2</sup> ) |         |
|-------|---------------------------------------------------------|---------|
| LE 8  | 3,746                                                   | (348)   |
| LE 16 | 7,492                                                   | (696)   |
| LE 44 | 20,602                                                  | (1,914) |

## OPERATING & DESIGN INFORMATION\*

|                                                               |                                                     |
|---------------------------------------------------------------|-----------------------------------------------------|
| <b>Temperature Range:</b>                                     | 41 - 104°F (5 - 40°C)                               |
| <b>Maximum Filtration Transmembrane Pressure:</b>             | 9 psi (0.6 bar)                                     |
| <b>Maximum Backflush Transmembrane Pressure:</b>              | 9 psi (0.6 bar)                                     |
| <b>Allowable pH Range for Cleaning:</b>                       | 2.0 – 10.5                                          |
| <b>Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:</b> | 1,000 ppm @ pH 8 or higher during maintenance clean |
| <b>Maximum Allowed Total Chlorine @ 95°F (35°C) or Lower:</b> | 2,000 ppm @ pH 8 or higher during recovery clean    |
| <b>Maximum Allowed Total Chlorine Contact:</b>                | 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)    |
| LE 8  | 36.4   | (925)   | 37.0   | (940)   | 105.5  | (2,679) | 1,300      | (590)   |
| LE 16 | 66.0   | (1,675) | 37.0   | (940)   | 105.5  | (2,679) | 2,500      | (1,135) |
| LE 44 | 88.9   | (2,258) | 70.0   | (1,780) | 105.5  | (2,679) | 6,070      | (2,754) |

\* See Outline drawings for details

## CONNECTIONS

| Model | Permeate         |             | Air              |              |
|-------|------------------|-------------|------------------|--------------|
|       | Type             | Size        | Type             | Size         |
| LE 8  | Grooved Coupling | 2½" IPS     | Grooved Coupling | 1½" IPS      |
| LE 16 | Grooved Coupling | 3" IPS      | Grooved Coupling | 2" IPS       |
| LE 44 | Grooved Coupling | 4" IPS (2X) | Grooved Coupling | 2½" IPS (2X) |

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