

# PURON<sup>®</sup> MP HOLLOW FIBER CARTRIDGE

*8-inch Ultrafiltration Cartridge for Water and Wastewater Filtration*

## 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)  |
| Housing Shell:           | PVC  |
| Potting Material:        | Proprietary Epoxy Compound   |
| Storage Solution:        | Glycerin/Water   |
| Regulatory Status:       | Classified by UL to NSF/ANSI Standard 61 and in accordance with NSF/ANSI Standard 372.<br>Part number 0728000-LT2 meets State of California LT2 test requirements. |

## PRODUCT SPECIFICATIONS

| Part Number | Model                          | Membrane Area [ft <sup>2</sup> (m <sup>2</sup> )] | Typical Production Range [gpm (m <sup>3</sup> /hr)] |
|-------------|--------------------------------|---|---|
| 0728000     | PURON <sup>®</sup> MP 8081-102 | 546 (51)  | 9 - 30 (2 - 6.8)                                    |
| 0728000-LT2 | PURON <sup>®</sup> MP 8081-102 | 546 (51)  | 9 - 30 (2 - 6.8)                                    |

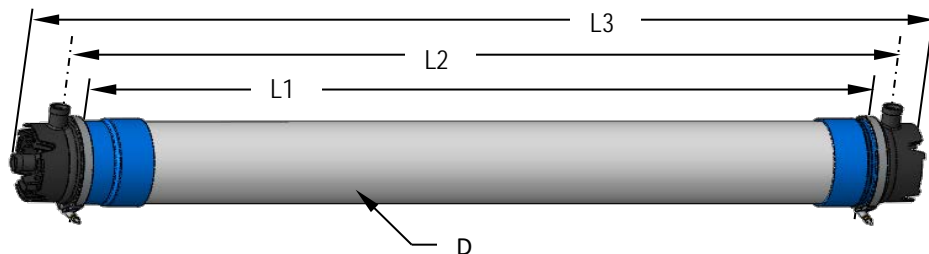
## OPERATING & DESIGN INFORMATION\*

|  |   |
|--|---|
| Maximum Pressure (water):                        | 45 psi (3.0 bar)** @ 104° F (40° C) or less |
| Temperature Range:                               | 32° F (0° C) - 104° F (40° C)               |
| Maximum Production Transmembrane Pressure:       | 25 psi (1.7 bar)                            |
| Maximum Backflush Transmembrane Pressure:        | 10 psi (0.7 bar)                            |
| Allowable pH Range (continuous operation):       | 4 - 9                                       |
| Allowable pH Range (short term):                 | 1.8 - 10.5                                  |
| Maximum Total Chlorine @ 77° F (25° C) or lower: | 1,000 ppm @ pH <10.5                        |
| Typical Air Scour Rate per Cartridge:            | 7 scfm (12 Nm <sup>3</sup> /hr)             |
| Maximum Air Scour Rate per Cartridge:            | 9 scfm (15 Nm <sup>3</sup> /hr)             |
| Typical Backflush Flow Rate per Cartridge:       | 19 gpm (4.3 m <sup>3</sup> /hr)             |

\* Consult KMS Process Engineering group for specific applications

\*\* Higher pressure, up to 3.6 bar (52 psi) requires specific approval of KMS Process Engineering group

## NOMINAL DIMENSIONS\*



| Model                          | D<br>Inches (mm) | L1<br>Inches (mm) | L2<br>Inches (mm) | L3<br>Inches (mm) |
|--------------------------------|------------------|-------------------|-------------------|-------------------|
| PURON <sup>®</sup> MP 8081-102 | 8.6 (220)        | 81 (2,060)        | 84 9/16 (2,148)   | 91 9/16 (2,326)   |

\* Dimensions are provided for reference only and should not be interpreted as accurate specifications.

Note: Generation II Design shown

# PURON® MP HOLLOW FIBER CARTRIDGE

## CARTRIDGE STORAGE CONDITIONS:

New cartridges are packaged in a glycerin/water solution. The glycerin/water solution should be removed from new cartridges before their initial use with a water rinse followed by a chlorine clean. See the pre-startup cleaning instruction sheet packed with each cartridge shipment for more details. Prior to installation, cartridges should be stored in their original packaging under the following conditions:

- Indoors, out of direct sunlight.
- Temperatures between 50 – 85°F (10 – 30°C).
- Relative humidity below 70%.
- In a horizontal position (unless shipped as fully loaded crate).

It is best to use new cartridges within one year of shipment. Consult KMS for recommendations for longer term storage.

Used cartridges should be cleaned, rinsed and impregnated before storage using a solution of 80-100% glycerin. New cartridge storage conditions should also be used for used cartridges. Used cartridges must be drained, rinsed, and cleaned after storage per the pre-startup cleaning instruction sheet.

## CARTRIDGE ASSEMBLY AND COMPONENTS:

| Item | Description         | Quantity Required |
|------|---------------------|-------------------|
| 1    | Vent End Cap        | 1 each            |
| 2    | Aeration End Cap    | 1 each            |
| 3    | Face Seal           | 2 each            |
| 4    | V-Band coupling     | 2 each            |
| 5    | O-rings             | 2 each            |
| 6    | PURON® MP Cartridge | 1 each            |

Note: Generation II End Cap Design shown

### GENERATION II PURON® MP PASS KIT (includes items 1-5 above)

Standard part number 1021079

### GENERATION I PURON® MP PASS KIT

Part Number: 1021034

### PURON® MP SEAL KIT (Includes 2 each of items 3 & 5 for both GENERATION I and II designs)

Part Number: 1021082

### PURON® MP PINNING KITS

Standard part number 1021076

Silicone free part number KDP3729

### PROCESS CONNECTIONS:

Feed, Permeate and Vent ports: 1½" Groove end couplings

Air Scouring connection: ½" OD tubing

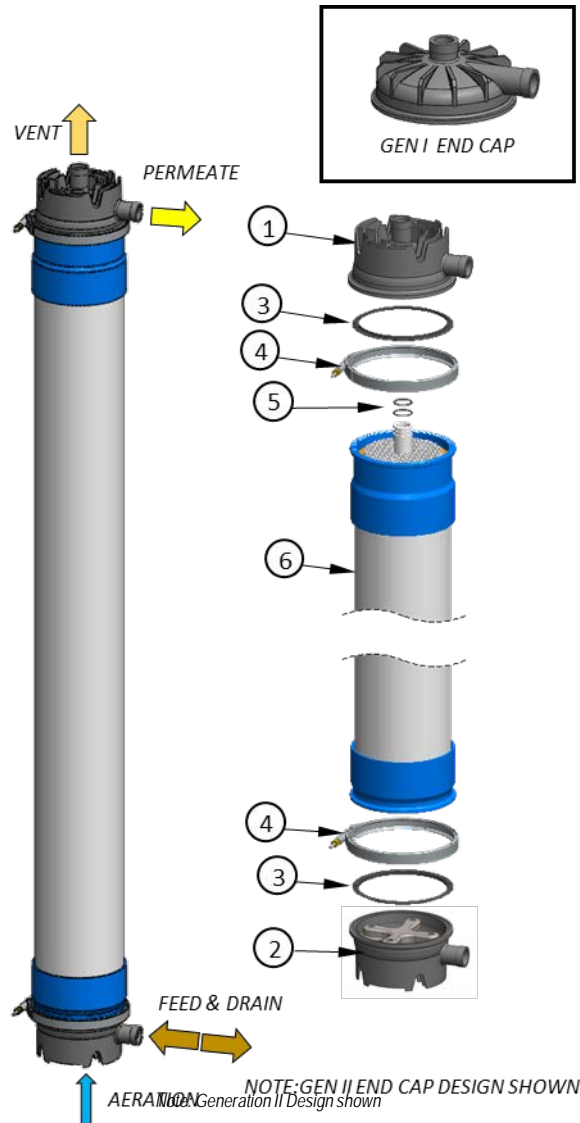
O-Rings: Parker 2-221 EPDM

### CARTRIDGE WEIGHT AND HOLD UP VOLUME:

Cartridge shipping weight: 98 lbs (44.5 kg)

Cartridge hardware (Pass kit) weight: 12 lbs (5.5 kg)

Hold up volume: 10 gallons (38 Liters)



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For related trademark information, visit [www.kochmembrane.com/legal](http://www.kochmembrane.com/legal)

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