



ABCOR[®] TUBULAR ULTRA-COR 7 PLUS: 10-HFM-183-UEP

Ultrafiltration Multitubular Module for Cathodic Electrocoat Paint

PRODUCT DESCRIPTION

| | |
|-----------------------------|--|
| KMS Part Number: | 0711942 |
| Membrane Chemistry: | PVDF |
| Membrane Type: | HFM (positively charged) |
| Membrane Area: | 7.2 ft ² (0.67 m ²) |
| Housing Construction: | PVC |
| Gasket: | EPDM |
| Interconnecting Components: | See Reverse |

OPERATING AND DESIGN INFORMATION*

| | |
|--------------------------------------|----------------------------------|
| Maximum Inlet Pressure: | 70 psi @ 120°F (4.8 bar @ 49°C) |
| Minimum Outlet Pressure: | 5 psi (0.3 bar) |
| Maximum Operating Temperature: | 120°F (49°C) |
| Maximum Permeate Side Back Pressure: | 5 psi (0.3 bar) |
| Maximum Feed Side Pressure Drop: | 6.5 psi @ 120°F (0.4 bar @ 49°C) |
| Allowable pH – Continuous Operation: | 3 – 7 @ 130°F (54°C) |
| Allowable pH – Short Term Cleaning: | 2 – 7 @ 130°F (54°C) |

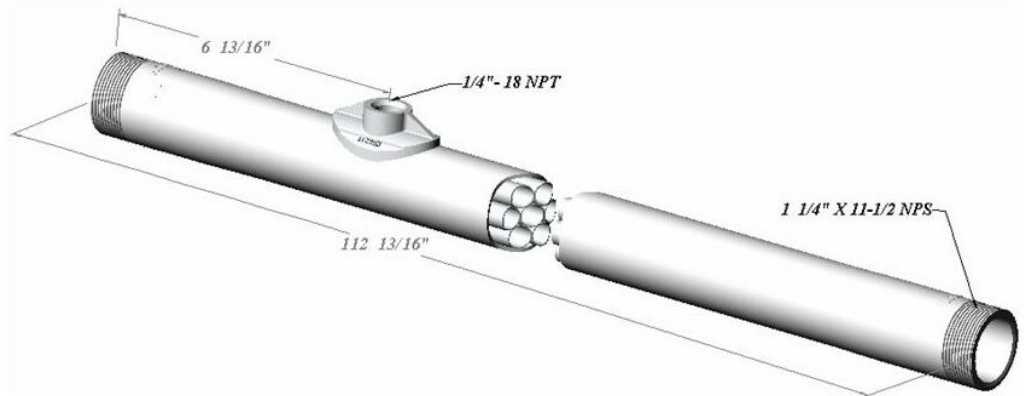
* Consult KMS Process Technology for specific applications.

FEED FLOW VS. PRESSURE DROP

| | Circulation Flow | | Crossflow Velocity | | Pressure Drop | |
|--|------------------|--------------------|--------------------|-----|---------------|------|
| | gpm | m ³ /hr | fps | m/s | psi | bar |
| | 23 | 5.2 | 6.4 | 2.0 | 2.0 | 0.14 |
| | 34 | 7.7 | 9.5 | 2.9 | 4.3 | 0.29 |
| | 42 | 9.5 | 11.7 | 3.6 | 6.0 | 0.41 |

* Koch Membrane Systems, Inc. must review operating and cleaning conditions for all new plants as well as changes to any existing plants. Data based on Water at 77° F and a specific gravity of 1.0. Circulation rates exhibit variances of 15%.

NOMINAL DIMENSIONS

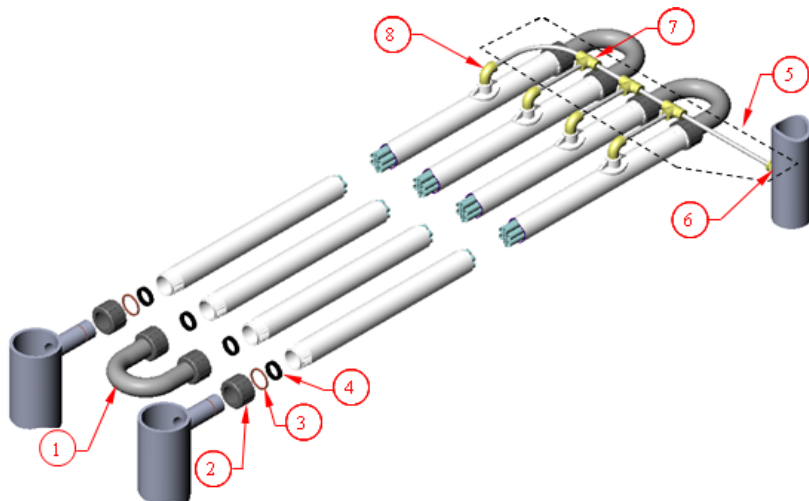


ANCILLARY PARTS

KMS recommends that these membranes be used with KMS supplied ancillary parts. Sealing is provided by o-rings and gaskets. No additional sealing compound or tape is recommended for use on threaded connections.

| Item | Description | KPN |
|------|-----------------------------|---------|
| 1 | U-Bend Assembly (PVC) | 0020390 |
| 2 | Holding Nut | 0020281 |
| 3 | Snap Ring | 0020310 |
| 4 | Membrane Washer (EPDM)* | 0020372 |
| 5 | Permeate Pass Kit | 0211798 |
| 6 | Permeate Straight Connector | 0211800 |
| 7 | Permeate Tee Connector | 0211803 |
| 8 | Permeate Elbow* | 0211804 |

* Supplied with Membrane



MEMBRANE INCOMPATIBILITY

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Membrane Systems. Aside from the listed chemicals below, synthetic coolants, semi-synthetic coolants, kerosenes, naphtha, gasoline, floc polymers may affect membrane performance.

Chemicals that should be avoided include the following:

- Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine, etc.)
- Chlorinated Solvents (e.g., Methylene Chloride, Chloroform, Carbon Tetrachloride, etc.)
- Ketones (e.g., Acetone, Diacetone Alcohol, etc.)

Silicones or Silicone based Defoamers (e.g., Siloxane)

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For related patent and trademark information, visit www.kochmembrane.com/legal
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