

SPIRAPAK[™] MODULE: 4033-HFM-183-LPP

Spiral Ultrafiltration Module for Cathodic Electrocoat Paint

PRODUCT DESCRIPTION

KMS Part Number: Membrane Chemistry: Membrane Type: Membrane Area: Construction: Seal: Feed Spacer Thickness: 0700786 PVDF HFM (positive charge) 59 ft² (5.5 m²) Spiral wound element with integrated PVC housing EPDM 0.030" (0.77 mm)

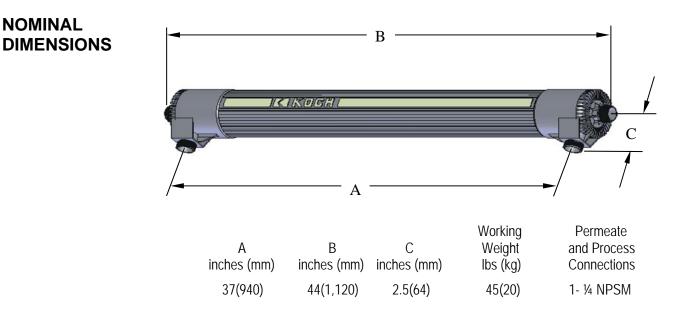
OPERATING AND DESIGN **INFORMATION***

NOMINAL

Maximum Inlet Pressure: Maximum operating temperature: Allowable pH – continuous operation: Allowable pH – short term cleaning: Maximum Feed Side Pressure Drop: Maximum Permeate Pressure:

*Consult Process Technology Group for specific information.

80 psi @110°F (5.5 bar @ 43°C) 125°F (52°C) 3 – 7 @ 125°F (52°C) 2 – 7 @125°F (52°C) 40 psi @ 125°F (2.8 bar @ 52°C) 5 psi (0.3 bar)



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.

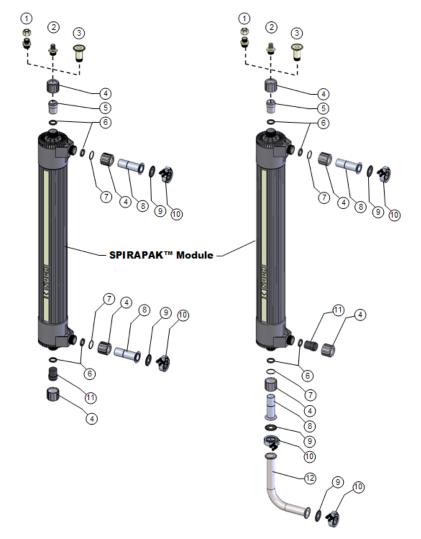
Chemicals that should be avoided include the following:

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)

OPTIONS OF SPIRAPAK MODULE™ ASSEMBLY

| Item | Description | Qty/ Unit | KPN |
|------|---|--------------|---------|
| 1 | Permeate connection Option #1 – 5/8" OD Rigid Tubing | 1 | 0231208 |
| 2 | Permeate connection Option #2 – 1/2" ID Flex hose | 1 | 0231207 |
| 3 | Permeate connection Option #3 – 1½" Sanitary ferrule | 1 | 0212300 |
| 4 | Nut | 4 | 0020281 |
| 5 | Permeate adapter | 1 | 0030375 |
| 6 | Seal washer | 4 | 0020370 |
| 7 | Retaining ring | 2 | 0020310 |
| 8 | Process adapter | 2 | 0216003 |
| 9 | 11/2" Sanitary seal | 2 | 0090400 |
| 10 | 11/2" Sanitary coupling | 1 | 0210465 |
| 11 | Process plug | 1 or 2 | 0030040 |
| 12 | Product Extension | 1 | 0216002 |



SERVICE AND ONGOING TECHNICAL SUPPORT

Koch Membrane Systems, Inc. has an experienced staff of professionals available to assist end-users and OEMs for optimization of existing systems and support the development of new applications. Along with the availability of supplemental technical bulletins, Koch Membrane Systems, Inc. also offers a complete line of KOCHKLEEN® cleaning chemicals.

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