

## SPIRAPAK™ MODULE: 4033-HFM-183-VPP

Spiral Ultrafiltration Module for Cathodic Electrocoat Paint

PRODUCT DESCRIPTION

KMS Part Number: 0700789 Membrane Chemistry: PVDF

Membrane Type: HFM (positive charge)

Membrane Area: 50 ft<sup>2</sup> (4.6m<sup>2</sup>)

**Construction:** Spiral wound element with integrated PVC housing

Seal: EPDM

Feed Spacer Thickness: 0.043" (1.09 mm)

OPERATING AND DESIGN INFORMATION\*

Maximum Inlet Pressure: 80 psi @110°F (5.5 bar @ 43°C)

Maximum operating temperature: 125°F (52°C)

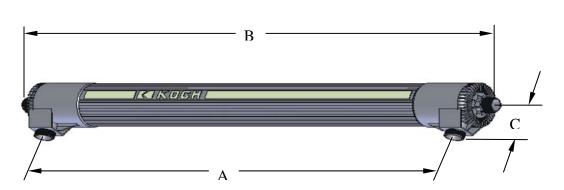
Allowable pH – continuous operation:  $3-7 @ 125 ^{\circ}F (52 ^{\circ}C)$ Allowable pH – short term cleaning:  $2-7 @ 125 ^{\circ}F (52 ^{\circ}C)$ 

Maximum Feed Side Pressure Drop: 40 psi @ 125° F (2.8 bar @ 52°C)

Maximum Permeate Pressure: 5 psi (0.3 bar)

\*Consult Process Technology Group for specific information.

# NOMINAL DIMENSIONS



			Working	Permeate
Α	В	С	Weight	and Process
inches (mm)	inches (mm)	inches (mm)	lbs (kg)	Connections
37(940)	44(1,120)	2.5(64)	45(20)	1- 1/4 NPSM

#### 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:

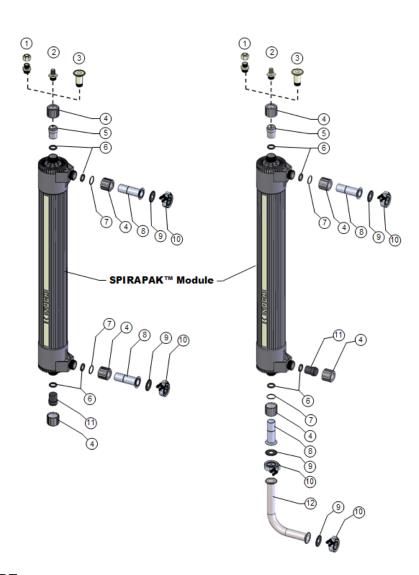
Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine, etc.) Chlorinated Solvents (e.g., Methylene Chloride, Chloroform, Carbon Tetrachloride, etc.)

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 – ½" 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	1½" 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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