



SPIRAPAK™ MODULE: 4033-HFM-300-VPP

Spiral Ultrafiltration Module for Industrial Applications

PRODUCT DESCRIPTION

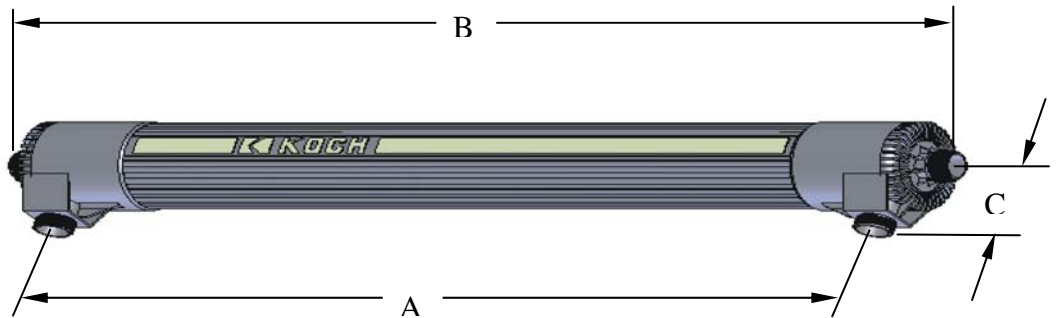
KMS Part Number:	0700778
Membrane Chemistry:	PVDF
Membrane Type:	HFM (Neutral charge)
Membrane Area:	50 ft ² (4.6m ²)
Construction:	Spiral wound element with integrated PVC housing
Seal:	EPDM
Feed Spacer Thickness:	0.043" (1.09 mm)

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:	2 – 10 @ 125°F (52°C)
Allowable pH – short term cleaning:	1.5 – 10.5 @ 125°F (52°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



A	B	C	Working Weight	Permeate and Process Connections
inches (mm)	inches (mm)	inches (mm)	lbs (kg)	
37(940)	44(1,120)	2.5(64)	45(20)	1- ¼ NPSM

MEMBRANE INCOMPATIBILITY

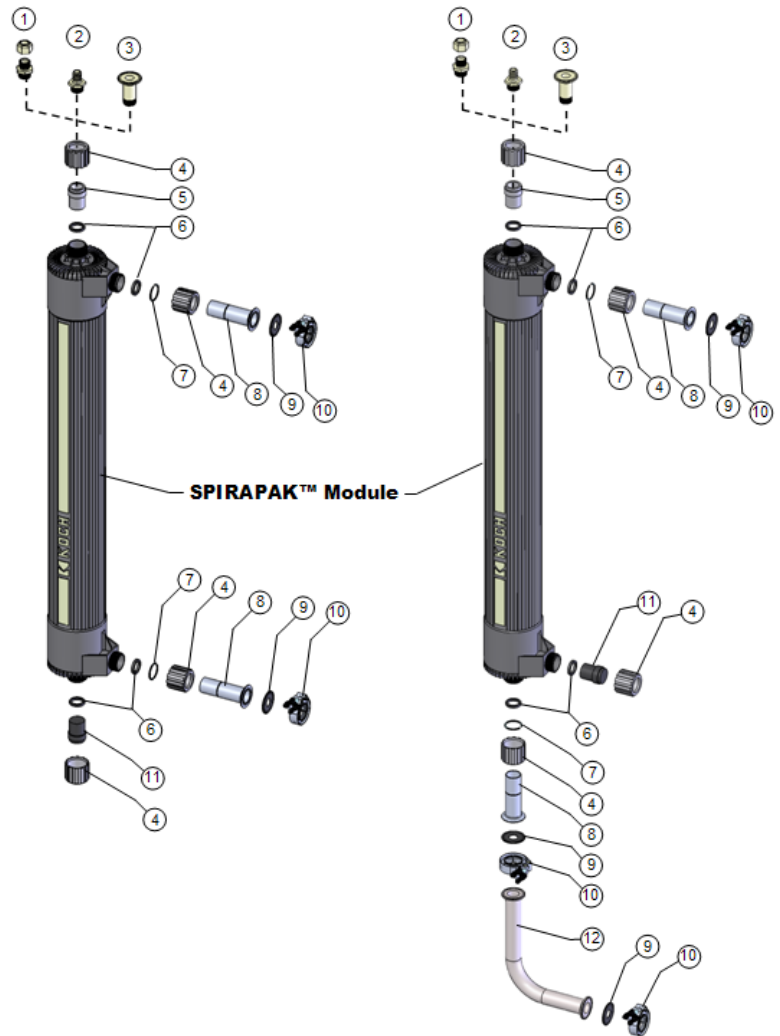
Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Membrane Systems. Aside from the listed chemicals below, synthetic coolants, semi-synthetic coolants, kerosenes, naphtha, gasoline, floc polymers may affect membrane performance.

Chemicals that should be avoided include the following:

- Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrrolidine, 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 – 1 1/2" 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	1 1/2" Sanitary seal	2	0090400
10	1 1/2" 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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