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 ft² (0.67 m²)
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)

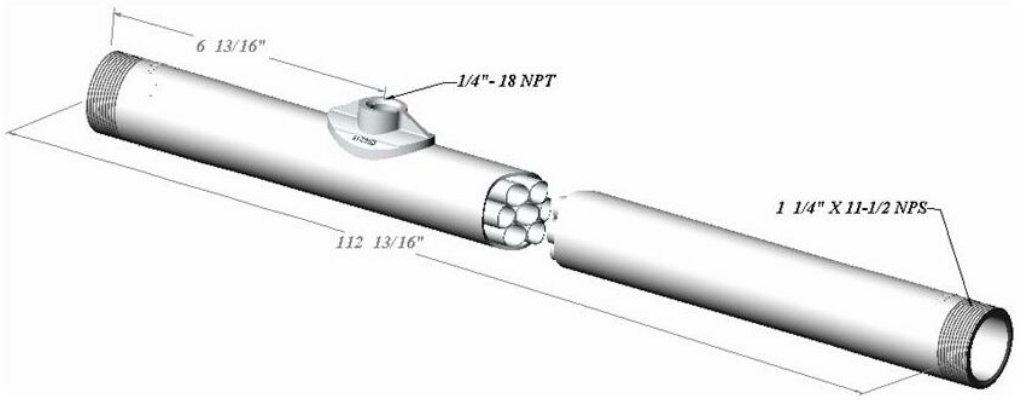
* Consult KMS Process Technology for specific applications.

FEED FLOW VS. PRESSURE DROP

Circulation Flow		Crossflow Velocity		Pressure Drop	
gpm	m³/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

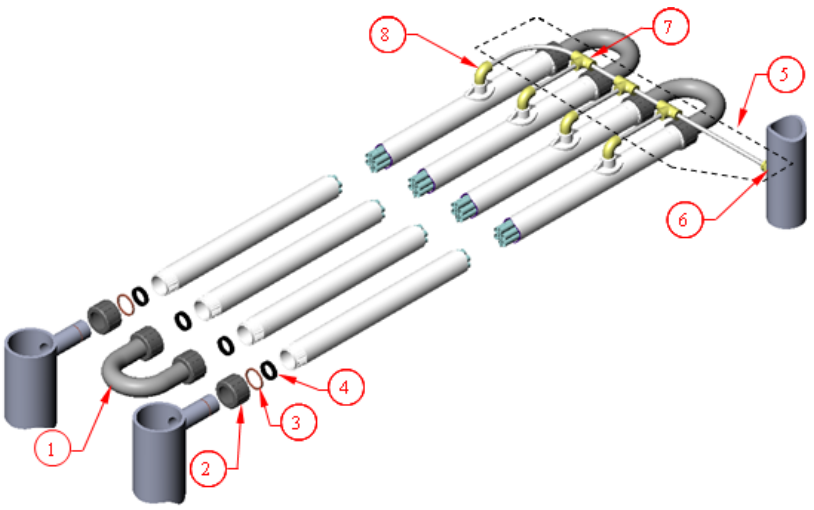


ANCILLARY PARTS

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)

Koch Membrane Systems, Inc., www.kochmembrane.com

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