

# ABCOR<sup>®</sup> - TUBULAR ULTRA-COR<sup>®</sup> 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 <sup>2</sup> (0.67 m <sup>2</sup> )
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)

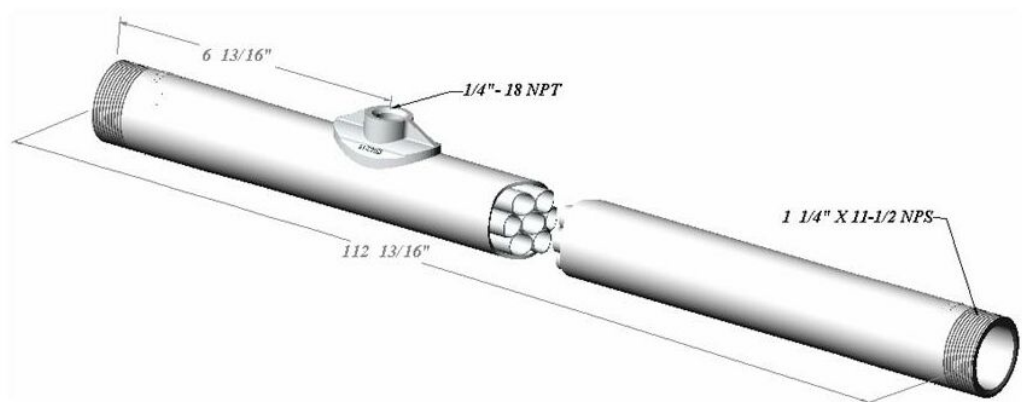
\* Consult KMS Process Technology for specific applications.

## FEED FLOW VS. PRESSURE DROP

Circulation Flow	Crossflow Velocity		Pressure Drop		
	gpm	m <sup>3</sup> /hr	fps	m/s	psi
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

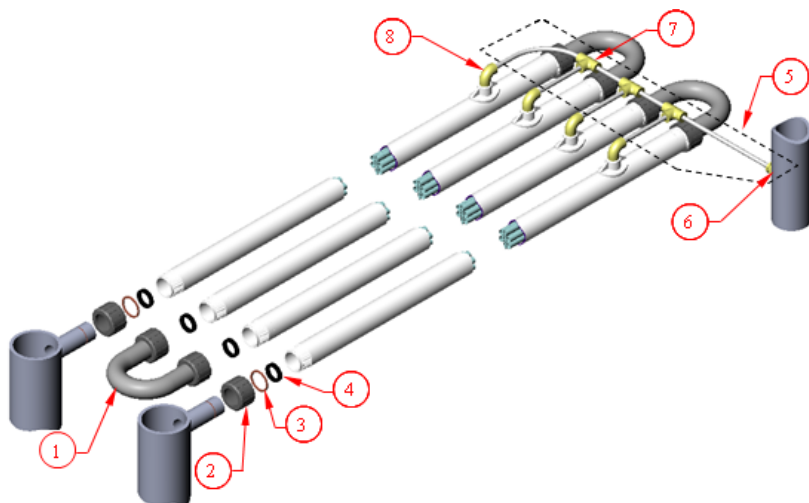


## ANCILLARY PARTS

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 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)

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