

ULTRA-COR Module: 10-HFM-251-UVP

Industrial Ultrafiltration Multitubular Modules

PRODUCT DESCRIPTION				
KSS Part Number (KPN):	0711952			
Membrane Chemistry:	PVDF			
Membrane Type:	HFM (neutral)			
Membrane Area:	7.2 ft ² (0.67 m ²)			
Construction:	7 (seven) ½" tubules potted in a 1-¼ " diameter shell			
Molecular Weight Cut-Off:	100,000 Dalton (nominal)			
Housing Construction:	PVC			
Seal:	PVC Insert (Epoxied in Place)			
Gasket:	Viton®			
Interconnecting Components:	See Reverse			

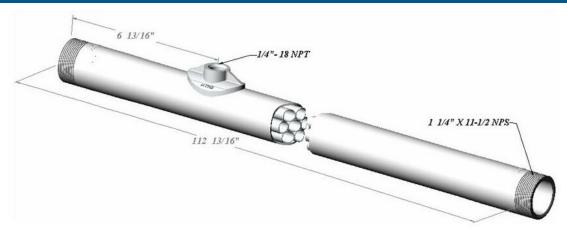
OPERATING AND DESIGN INFORMATION*				
Maximum Inlet Pressure:	70 psi @ 120°F (4.8 bar @ 49°C)			
Minimum Outlet Pressure:	5 psi (0.3 bar)			
Maximum Operating Temperature (at pH 8.0):	120°F (49°C)			
Maximum Permeate Side Back Pressure:	5 psi (0.3 bar)			
Maximum Feed Side Pressure Drop:	6.5 psi @ 120°F (0.4 bar @ 49°C)			
Allowable pH - Continuous Exposure:	2.0 - 10.0 @ 120°F (49°C)			
Allowable pH - Short Term Exposure:	1.5 - 10.5 @ 120°F (49°C)			

^{*}Consult KSS Process Technology for specific applications.

FEED FLOW vs. PRESSURE DROP							
Circulat	Circulation Flow		Crossflow Velocity		re 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 Separation Solutions, 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



STORAGE GUIDELINES

Ancillary Parts

KSS recommends that these membranes be used with KSS supplied ancillary parts. Sealing is provided by o-rings and gaskets. No additional sealing compound or tape is recommended for use on threaded connections.

CARTRIDGE ASSEMBLY AND COMPONENTS

Item	Description	KPN
1	U-Bend Assembly (PVC)	0020390
2	Holding Nut	0020281
3	Snap Ring	0020310
4	Membrane Washer (Viton)®*	0020375
5	Permeate Pass Kit	0211798
6	Permeate Straight Connector	0211800
7	Permeate Tee Connector	0211803
8	Permeate Elbow*	0211804

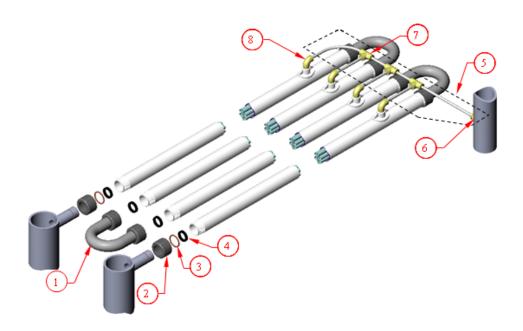
^{*}Supplied with Membrane

Membrane Incompatibility

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Separation Solutions 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)





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