

# ABCOR® FEG™ PLUS MODULE: 10-HFM-251-PVI

Industrial Tubular Ultrafiltration One-Inch Modules

PRODUCT DESCRIPTION

KMS Part Number (KPN): 0711651 Membrane Chemistry: PVDF

Membrane Type: HFM (neutral)
Membrane Area: 2.2 ft² (0.20 m²)

Molecular Weight Cut-off: 100,000 Dalton (nominal)

Housing Construction: CPVC

Seal: CPVC Insert (Epoxied in Place)

Gasket: Viton®

Interconnecting Components: See Reverse

OPERATING AND DESIGN INFORMATION\*

Maximum Inlet Pressure: 90 psi @ 140°F (6.2 bar @ 60°C)

Minimum Outlet Pressure: 5 psi (0.3 bar)
Maximum Operating Temperature (at pH 8.0): 140°F (60°C)
Maximum Permeate Side Back Pressure: 5 psi (0.6 bar)

Maximum Feed Side Pressure Drop:10 psi @ 140°F (0.7 bar @ 60°C)Allowable pH - Continuous Exposure:2.0 - 10.0 @ 140°F (60°C)Allowable pH - Short Term Exposure:1.5 - 10.5 @ 140°F (60°C)

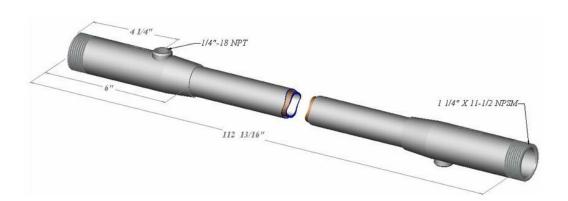
<sup>\*</sup> Consult KMS Process Technology for specific applications.

<b>FEED FLOW</b>	VS.
PRESSURE	
DROP	

, , ,	Crossflow Velocity Press		Pressu	sure Drop	
-	fps	m/s	psi	bar	
	7.8	2.4	2.0	0.14	
	12.3	3.7	4.3	0.29	
	15.5	4.7	6.0	0.41	
	OW -	fps 7.8 12.3	fps m/s 7.8 2.4 12.3 3.7	fps m/s psi 7.8 2.4 2.0 12.3 3.7 4.3	

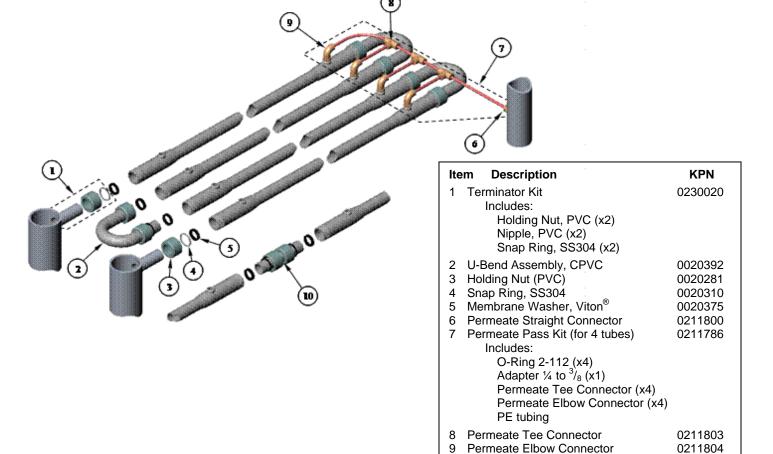
Koch Membrane Systems, Inc. must review operating and cleaning conditions for all new plants as well as changes to any existing plants. Data based on Water at 77° F and a specific gravity of 1.0. Circulation rates exhibit variances of 15%.

# 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.



10 Interconnector Kit, CPVC

CPVC interconnector (x1)

PVC Nut Holding (x2)

Snap-Ring (x2)

Includes:

0230091

#### 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)

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## $Koch\ Membrane\ Systems,\ Inc.,\ www.kochmembrane.com$

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