ABCOR® - FEG™ PLUS MODULE: 10-HFM-251-ILT

Industrial Tubular Ultrafiltration One-Inch Modules in Stainless Steel Housing

PRODUCT DESCRIPTION

KMS Part Number (KPN):	0711469
Membrane Chemistry:	PVDF
Membrane Type:	HFM (neutral)
Membrane Area:	2.2 ft^2 (0.20 m^2)
Molecular Weight Cut-off:	100,000 Dalton (nominal)
Housing Construction:	Stainless Steel
Seal:	Viton® Bootie
Gasket:	Viton®
Interconnecting Components:	See Reverse

OPERATING & DESIGN INFORMATION*

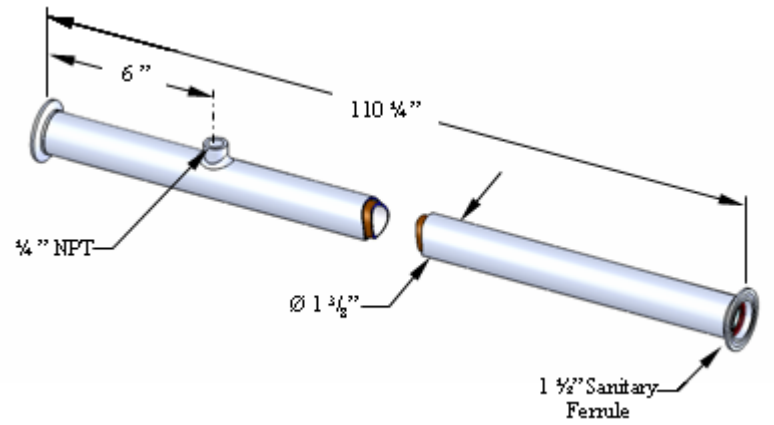
Maximum Inlet Pressure:	60 psi @ 150°F (4.1 bar @ 65.5°C)
Minimum Outlet Pressure:	10 psi (0.7 bar)
Maximum Operating Temperature (at pH 8.0):	150°F (65.5°C)
Maximum Permeate Side Back Pressure:	5 psi (0.3 bar)
Maximum Feed Side Pressure Drop:	7 psi @ 150°F (0.5 bar @ 65.5°C)
Allowable pH - Continuous Exposure:	2.0 - 10.0 @ 150°F (65.5°C)
Allowable pH - Short Term Exposure:	1.5 - 10.5 @ 150°F (65.5°C)

* Consult KMS Process Technology for specific applications.

FEED FLOW VS. PRESSURE DROP

Circulation Flow		Crossflow Velocity		Pressure Drop	
gpm	m^3/hr	fps	m/s	psi	bar
19	4.3	7.8	2.4	2.0	0.14
30	6.8	12.3	3.7	4.3	0.29
38	8.6	15.5	4.7	6.0	0.41

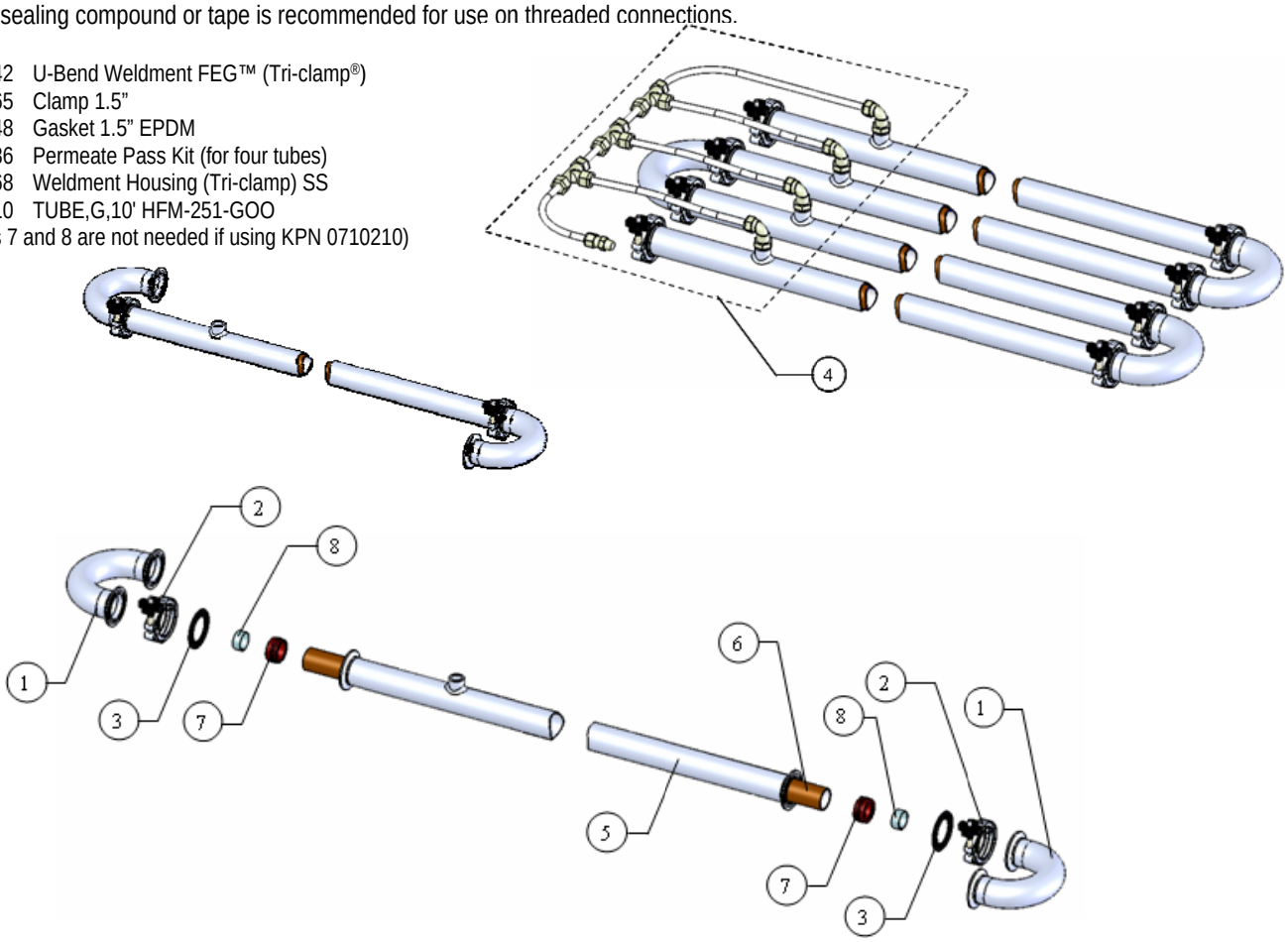
NOMINAL DIMENSIONS



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.

1 0020442 U-Bend Weldment FEG™ (Tri-clamp®)
2 0210465 Clamp 1.5”
3 0020448 Gasket 1.5” EPDM
4 0211786 Permeate Pass Kit (for four tubes)
5 0020468 Weldment Housing (Tri-clamp) SS
6 0710210 TUBE,G,10' HFM-251-GOO
(Note items 7 and 8 are not needed if using KPN 0710210)



MEMBRANE INCOMPATIBILITY

Prior to exposing the membranes to any chemical, the chemical should be reviewed by Koch Membrane Systems, Inc. Certain chemicals may affect membrane performance and integrity.

Chemicals that should be avoided include the following:

Synthetic coolants, semi-synthetic coolants, kerosene, naphtha, gasoline, floc polymers.
Aprotic Solvents (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine)
Chlorinated Solvents (e.g., Methylene Chloride, chloroform, Carbon Tetrachloride)
Ketones (e.g., Acetone, Diacetone Alcohol)
Silicones or Silicone based Defoamers (e.g., Siloxane)

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%.

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

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