

# ABCOR<sup>®</sup> - INDUCOR<sup>™</sup> MODULE: 12-HFM-251-ICV

*Industrial Multitubular Ultrafiltration Module*

## PRODUCT DESCRIPTION

Part Number (KPN)	0712510
Membrane Chemistry:	PVDF
Membrane Type:	HFM (neutral charge)
Membrane Area:	45.5 ft <sup>2</sup> (4.2 m <sup>2</sup> )
Molecular Weight Cut-Off:	100,000 Dalton (nominal)
Construction:	Thirty (30) ½" diameter tubules in a PVC shell
Face Plate:	ABS
Gasket:	VITON <sup>®</sup>

## OPERATING & DESIGN INFORMATION\*

Maximum inlet pressure:	90 psi @ 119 °F (6.2 bar @ 48 °C)
Maximum operating temperature:	122°F (50 °C) at 84 psi max
Maximum permeate side back pressure:	3 psi (0.2 bar)
Minimum outlet pressure:	5 psi (0.3 bar)
Maximum feed side pressure drop:	7.5 psi @ 119 °F (0.5 bar @ 48 °C)
Allowable pH - Continuous Exposure:	2.0 – 10.0 @ 119 °F (48 °C)
Allowable pH - Short Term Exposure:	1.5 – 10.5 @ 119 °F (48 °C)

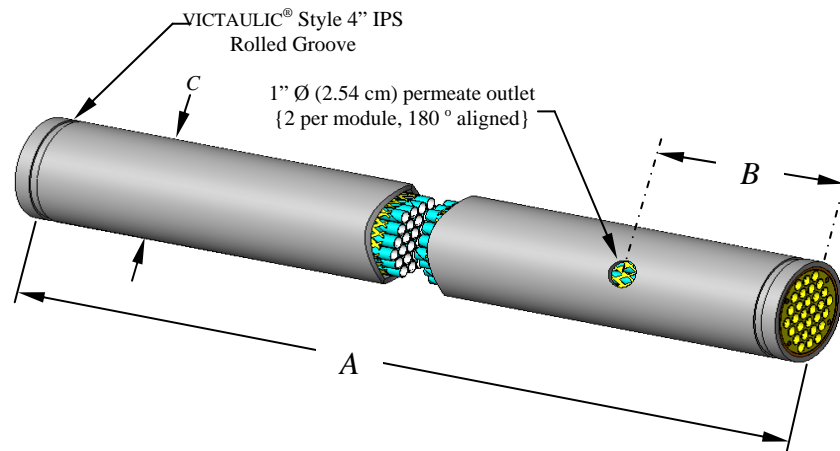
\* Consult with Industrial Process Technology Group for specific applications.

## FEED FLOW VS. PRESSURE DROP\*

Circulation Flow	Crossflow Velocity		Pressure Drop		
	gpm	m <sup>3</sup> /hr	f/s	m/s	psi
175	40	9	2.7	4.8	0.34
200	45	11	3.4	6.0	0.40
225	51	12	3.7	7.2	0.50

\* Data based on water at 77° F and specific gravity of 1.0.

## NOMINAL DIMENSIONS



<b>A</b>	<b>B</b>	<b>C</b>
Inches (mm)	Inches (mm)	Inches (mm)
144 (3658)	8 (203.2)	4½ (114.3)

### 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.

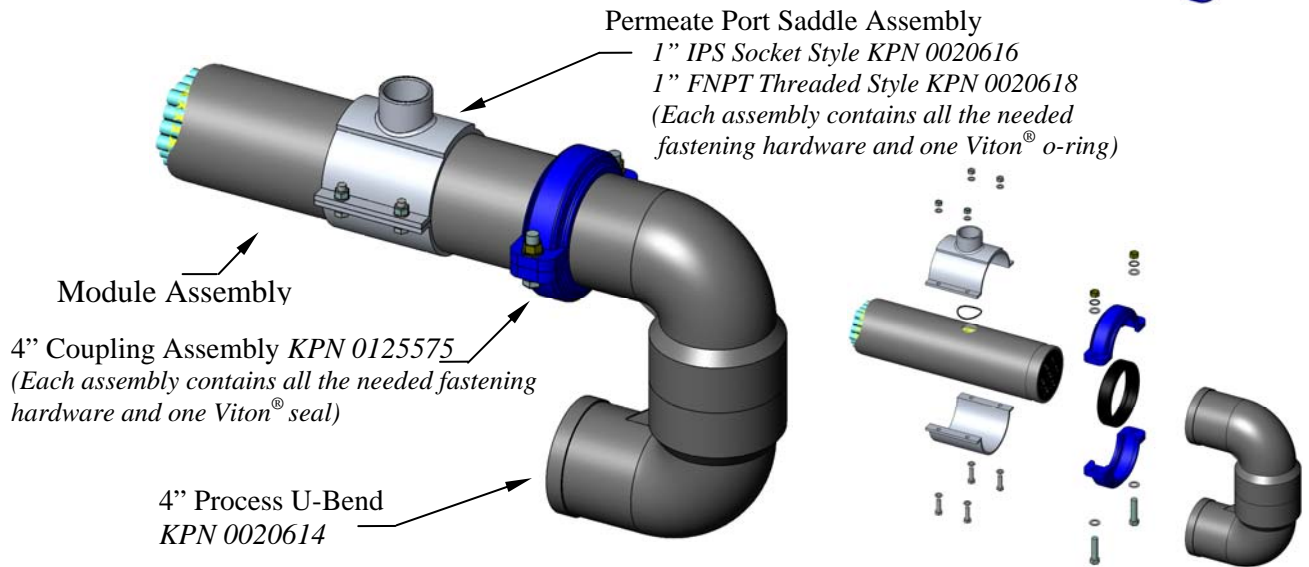
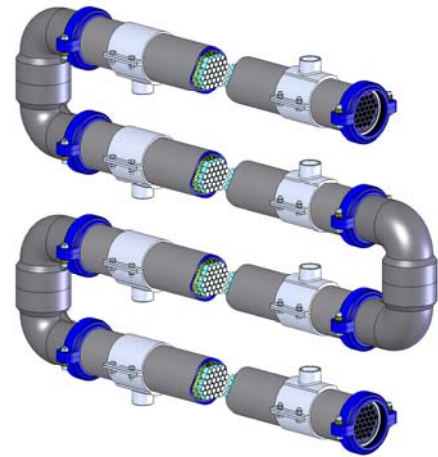
### INDUCOR™ Module Process Pass Kits

- One Process Pass Kit contains;
  - Two Permeate Port Saddle Assemblies
  - Two 4" Coupling Assemblies

Available in two styles of Permeate Port Saddle:

1" IPS Socket Style Pass Kit KPN 0211875

1" FNPT Threaded Style Pass Kit KPN 0211885



### 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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