



# HFM-183 ELEMENTS

*Spiral Ultrafiltration Element for Cathodic Electrocoat Paint*

<b>PRODUCT DESCRIPTION</b>	Membrane Chemistry:	PVDF
	Membrane Type:	HFM-183 (Positive Charge)
	Construction:	Spiral wound element with hard overwrap and flanged seal
	Seal:	Rubber Gasket

<b>PRODUCT SPECIFICATIONS</b>	Part Number	Description	Active Membrane Area ft <sup>2</sup> (m <sup>2</sup> )	Feed Spacer mil (mm)
	0700770	7533-M183-VPF		208 (19.3)
0700772	7533-M183-LPF		230 (21.4)	31 (0.8)

<b>OPERATING &amp; DESIGN INFORMATION*</b>	Maximum Inlet Pressure:	80 psi @ 125°F (5.5 bar @ 52°C)
	Minimum Outlet Pressure:	15 psi (1 bar)
	Maximum operating temperature:	125°F (52°C)
	Allowable pH – continuous operation:	2 - 10 @ 125°F (52°C)
	Allowable pH – short term cleaning:	1.5 - 10.5 @ 125°F (52°C)
	Maximum Feed Side Pressure Drop:	30 psi @ 125°F (2.07 bar @ 52°C)
Maximum Permeate Pressure:	5 psi (0.3 bar)	

\* Consult KMS Process Technology Group for specific applications.

<b>NOMINAL DIMENSIONS</b>	Nominal Outside Diameter inches (mm)	Nominal Length inches (mm)	Permeate Tube Outside Diameter inches (mm)
		7.49 (190)	39.3 (998)

## 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, flocculation 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)

## SERVICE AND ONGOING TECHNICAL SUPPORT

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