

HFM-183 ELEMENTS

Spiral Ultrafiltration Element for Cathodic Electrocoat Paint

**PRODUCT
DESCRIPTION**

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

**PRODUCT
SPECIFICATIONS**

Part Number	Description	Active Membrane Area ft ² (m ²)	Feed Spacer mil (mm)
0700770	7533-M183-VPF	208 (19.3)	43 (1.1)
0700772	7533-M183-LPF	230 (21.4)	31 (0.8)

**OPERATING &
DESIGN
INFORMATION***

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.

**NOMINAL
DIMENSIONS**

Nominal Outside Diameter inches (mm)	Nominal Length inches (mm)	Permeate Tube Outside Diameter inches (mm)
7.49 (190)	39.3 (998)	1.660 (42.2)

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 Pyrrolidine, 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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