

# HFM-183 Elements

*Spiral Ultrafiltration Element for Cathodic Electrocoat Paint*

## PRODUCT DESCRIPTION

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

## PRODUCT SPECIFICATIONS

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

## OPERATING AND DESIGN INFORMATION\*

<b>Maximum Inlet Pressure:</b>	80 psi @ 125°F (5.5 bar @ 52°C)
<b>Minimum Outlet Pressure:</b>	15 psi (1 bar)
<b>Maximum Operating Temperature:</b>	125°F (52°C)
<b>Allowable pH – Continuous Operation:</b>	2 - 10 @ 125°F (52°C)
<b>Allowable pH – Short Term Cleaning:</b>	1.5 - 10.5 @ 125°F (52°C)
<b>Maximum Feed Side Pressure Drop</b>	30 psi @ 125°F (2.07 bar @ 52°C)
<b>Maximum Permeate Pressure:</b>	5 psi (0.3 bar)

\*Consult KSS Process Technology Group for specific applications.

## NOMINAL DIMENSIONS

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

## OPERATING GUIDELINES

**Membrane Incompatibility**

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Separation Solutions. 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**

Koch Separation Solutions, Inc. has an experienced staff of professionals available to assist end-users and OEMs for optimization of existing systems and support the development of new applications. Along with the availability of supplemental technical bulletins, Koch Separation Solutions, Inc. also offers a complete line of KOCHKLEEN® cleaning chemicals.

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