



# 10" KPAK®: 10738 M-183-LPP MODULE

## Zero Bypass E-Coat Ultrafiltration Spiral Modules

**PRODUCT DESCRIPTION**

<b>KMS Part Number (KPN):</b>	0750985
<b>Membrane Chemistry:</b>	PVDF
<b>Membrane Type:</b>	HFM (Positive Charge)
<b>Membrane Area:</b>	462 ft <sup>2</sup> (42.9 m <sup>2</sup> )
<b>Construction:</b>	Spiral wound element with integrated PVC housing
<b>Feed Spacer Thickness:</b>	30 mils (0.8 mm)
<b>Interconnecting Components:</b>	See page 2.

**OPERATING & DESIGN INFORMATION\***

<b>Maximum Inlet Pressure at Temperature:</b>	80.0 psi @ 100° F (5.5 bar @ 37 °C)
<b>Maximum Inlet Pressure at Temperature:</b>	56.0 psi @ 120° F (3.9 bar @ 49 °C)
<b>Maximum Operating Temperature at Pressure:</b>	125° F @ 49 psi (51.6 °C @ 3.4 bar)
<b>Minimum Outlet Pressure:</b>	10.0 psi (0.70 bar)
<b>Maximum Permeate Side Back Pressure:</b>	5.0 psi (0.34 bar)
<b>Maximum Feed Side Pressure Drop:</b>	35.0 psi @ 125° F (2.4 bar @ 51.6° C)
<b>Allowable pH – Continuous Exposure:</b>	2.0 – 10.0 pH @ 125 °F (51.6 °C)
<b>Allowable pH – Short Term Exposure:</b>	1.5 – 10.5 pH @ 125 °F (51.6 °C)

\*Koch Membrane Systems, Inc. must review operating and cleaning conditions for all new plants and any changes to existing plants

**FEED FLOW VS. PRESSURE DROP (Typical)\***

	Circulation Flow		Pressure Drop	
	gpm	m <sup>3</sup> /hr	psi	bar
	97	21.6	25	1.7
	109	24.3	30	2.1
	117	26.1	35	2.4

\*Data are based on water @ 77°F and a specific gravity of 1.0. Circulation rates exhibit variances of ± 15%.

**NOMINAL DIMENSIONS**

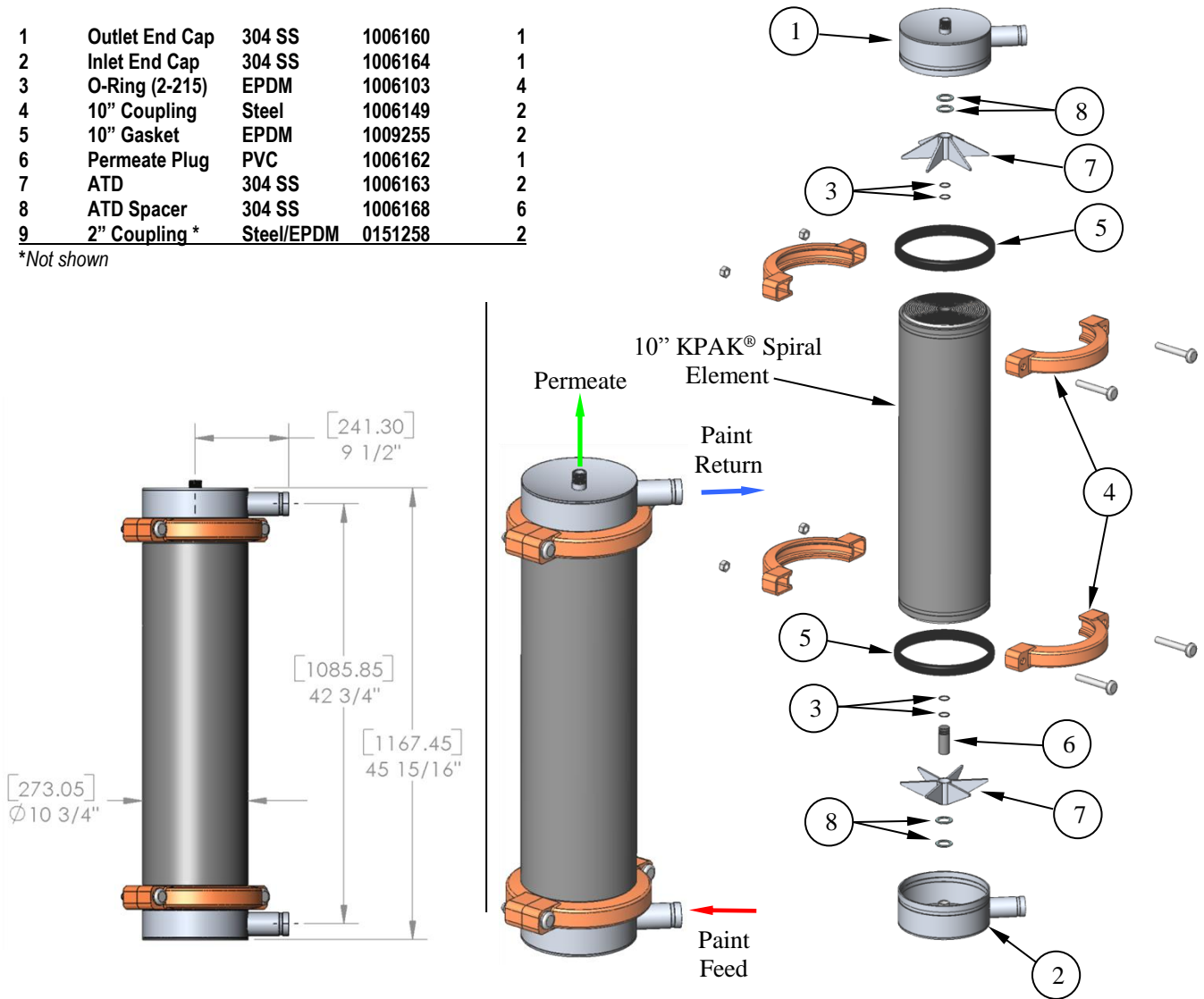
<b>Element Length:</b>	38.0 in (965 mm)
<b>Element O.D.:</b>	10.75 in (273.1 mm)
<b>Permeate Tube I.D.:</b>	1.3 in (33.0 mm)
<b>Element Shipping Weight:</b>	95 lbs (43 kg)
<b>Element Working Weight:</b>	150 lbs (68.2 kg)

# 10" KPAK® SPIRAL MODULE ASSEMBLY

## Description

Item	Description	Material	KPN	Req
1	Outlet End Cap	304 SS	1006160	1
2	Inlet End Cap	304 SS	1006164	1
3	O-Ring (2-215)	EPDM	1006103	4
4	10" Coupling	Steel	1006149	2
5	10" Gasket	EPDM	1009255	2
6	Permeate Plug	PVC	1006162	1
7	ATD	304 SS	1006163	2
8	ATD Spacer	304 SS	1006168	6
9	2" Coupling *	Steel/EPDM	0151258	2

\*Not shown



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