

# 10" KPAK<sup>®</sup> PLUS MODULE

*High Productivity Zero Bypass Ultrafiltration Spiral Module for Electrocoat Paint*

<b>PRODUCT DESCRIPTION</b>	Membrane Chemistry:	PVDF
	Membrane Type:	HFM-183 (Positive Charge)
	Construction:	Spiral wound element with integrated PVC housing
	Seal:	EPDM

<b>NOMINAL SPECIFICATIONS</b>	Model	Part Number	Membrane Area	Feed Spacer
			ft <sup>2</sup> (m <sup>2</sup> )	mil (mm)
	KPAK PLUS 10738-M183-LPP	0750790	512 (47.6)	30 (0.8)

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

<b>FEED FLOW VS. PRESSURE DROP (Typical)*</b>	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%.

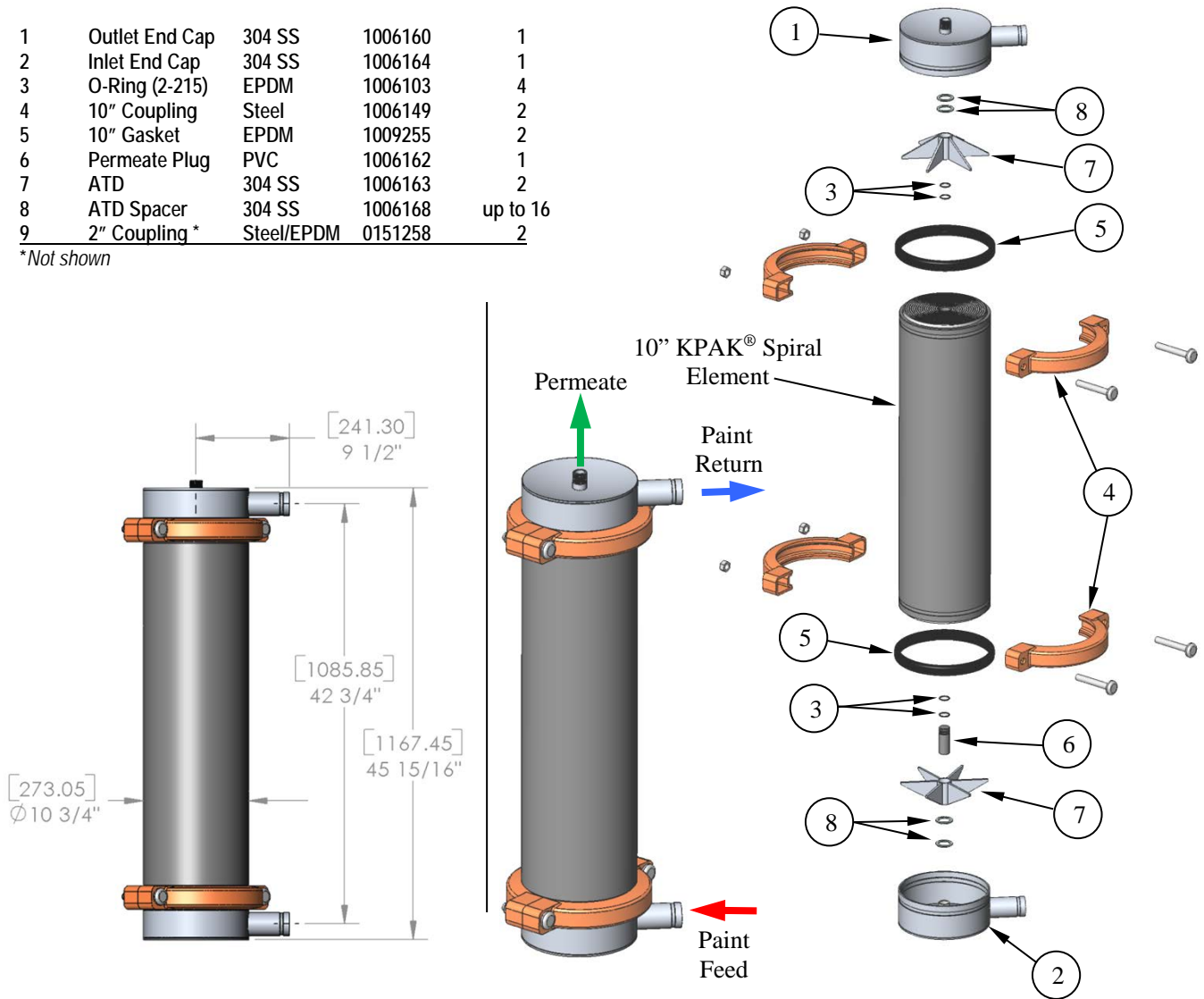
<b>NOMINAL DIMENSIONS</b>	Element Length:	38.0 in (965 mm)
	Element O.D.:	10.75 in (273.1 mm)
	Permeate Tube I.D.:	1.3 in (33.0 mm)
	Element Shipping Weight:	95 lbs (43 kg)
	Element Working Weight:	150 lbs (68.2 kg)

# 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	up to 16
9	2" Coupling*	Steel/EPDM	0151258	2

\*Not shown



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For related trademark information, visit [www.kochmembrane.com/legal](http://www.kochmembrane.com/legal)

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