



10” KPAK™: 10738 M-183-LPP MODULE

Zero Bypass E-Coat Ultrafiltration Spiral Modules

PRODUCT DESCRIPTION

KMS Part Number (KPN):	0750985
Membrane Chemistry:	PVDF
Membrane Type:	HFM (Positive Charge)
Membrane Area:	462 ft ² (42.9 m ²)
Construction:	Spiral wound element with integrated PVC housing
Feed Spacer Thickness:	30 mils (0.76 mm)
Interconnecting Components:	See page 2.

OPERATING & DESIGN INFORMATION*

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

FEED FLOW VS. PRESSURE DROP (Typical)*

	Circulation Flow		Pressure Drop	
	gpm	m ³ /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

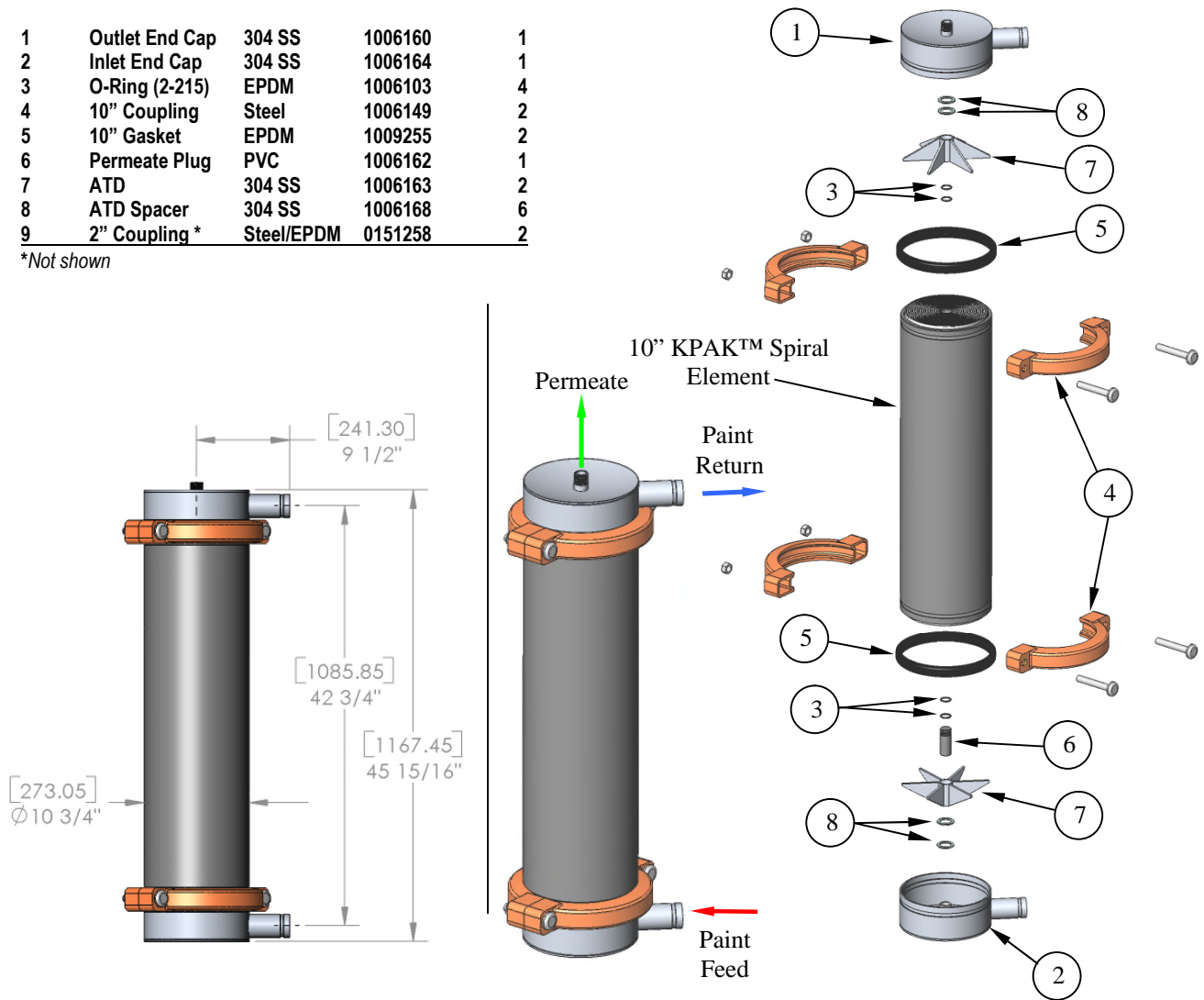
Element Length:	38.0 in (965 mm)
Element O.D.:	10.75 in (273.1 mm)
Permeate Tube I.D.:	1.3 in (33.0 mm)
Element Shipping Weight:	95 lbs (43 kg)
Element Working Weight:	150 lbs (68.2 kg)

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	6
9	2" Coupling *	Steel/EPDM	0151258	2

*Not shown



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