

10" KPAK[®] PLUS MODULE

High Productivity Zero Bypass Ultrafiltration Spiral Module for Electrocoat Paint

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

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

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)

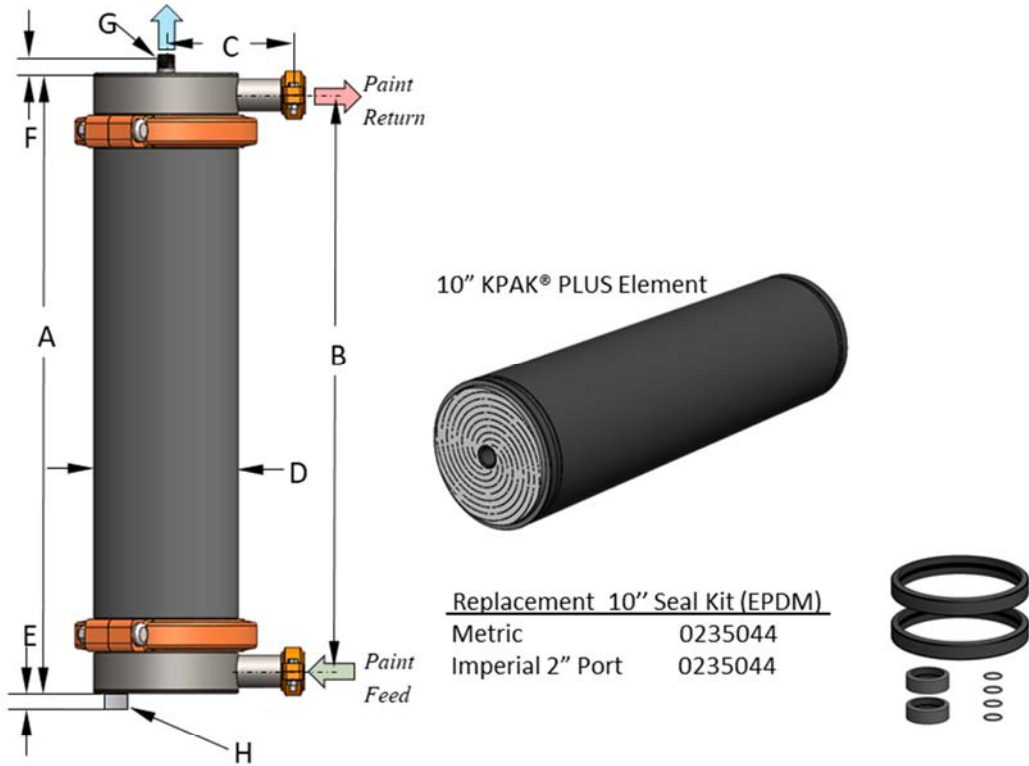
*Koch Membrane Systems, Inc. must review operating and cleaning conditions for all new plants and any changes to existing plants

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

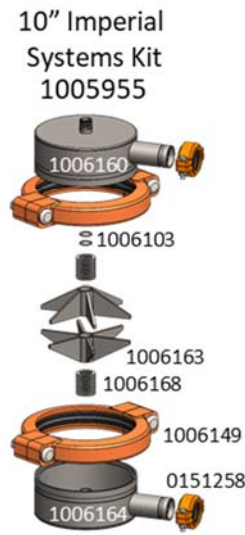
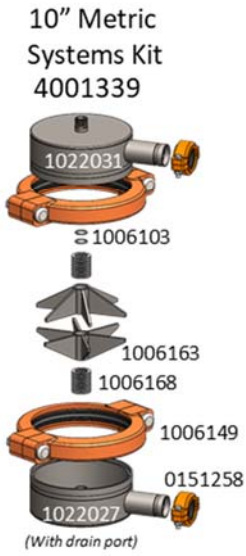
*Data are based on water @ 77°F and a specific gravity of 1.0. Circulation rates exhibit variances of ± 15%.

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



MODEL	A	B	C	D	E	F	G	H
Metric (mm)	1,167	1,086	241	273	28	28	1" MBSPTG	1/2" FBSP
Imperial (inch)	46	42 3/4	9 1/2	10 3/4	N/A	1 1/4	1" MNPT	N/A



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