

8" KPAK[®] Plus Modules

High Productivity Zero Bypass Ultrafiltration Modules 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

Part Number	Model	Feed Spacer mil (mm)	Membrane Area ft ² (m ²)
0750775	KPAK PLUS 8638-M183-LPP	30 (0.8)	329 (30.6)
0750788	KPAK PLUS 8638-M183-VPP	46 (1.2)	255 (23.7)

OPERATING AND DESIGN INFORMATION*

Maximum Inlet Pressure at Temperature:	80.0 psi @ 110 °F (5.5 bar @ 43 °C)
Maximum Inlet Pressure at Temperature:	64.0 psi @ 120 °F (4.4 bar @ 49 °C)
Minimum Outlet Pressure:	10.0 psi (0.70 bar)
Maximum Operating Temperature at Pressure:	125 °F @ 56 psi (51.6 °C @ 3.9 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 Separation Solutions, Inc. must review operating and cleaning conditions for all new plants and any changes to existing plants

FEED FLOW VS.PRESSURE DROP (TYPICAL)*

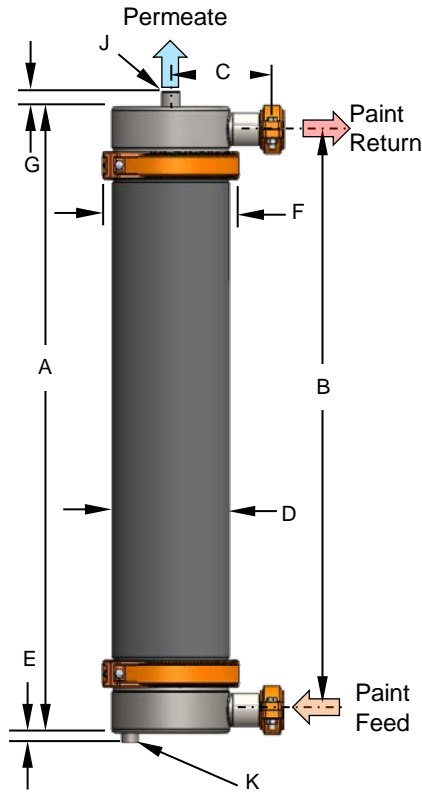
Pressure Drop		Circulation Flow (30 mil)		Circulation Flow (46 mil)	
psi	bar	gpm	m ³ /hr	gpm	m ³ /hr
25	1.7	62	14.1	97	21.6
30	2.1	70	15.9	109	24.3
35	2.4	75	17.0	117	26.1

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

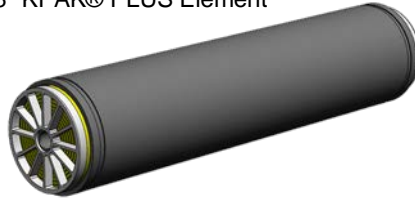
NOMINAL DIMENSIONS

Element Length:	39.25 in (997.0 mm)
Element O.D.:	8.63 in (219.2 mm)
Permeate Tube I.D.:	1.3 in (33.0 mm)
Element Shipping Weight:	70 lbs (32 kg)
Element Working Weight:	90 lbs (40.82 kg)

8" KPAK® PLUS SPIRAL MODULE ASSEMBLY



8" KPAK® PLUS Element



Replacement 8" Seal Kit (EPDM)	
Metric	0235043
Imperial 2" Port	0235043
Imperial 1 1/2" Port	0235045



Cartridge Support Kit	
Metric	N/A
Imperial	0235042 (Hardware included)



MODEL	A	B	C	D	E	F	G	J	K
Metric (mm)	1,165	1,086	190.5	219	28	264	28	1" MBSPT	G 1/2" FBSP
Imperial (inch)	45 7/8	42 3/4	7 1/2	8 5/8	N/A	10 3/8	1 1/4	1" MNPT	N/A

<p>8" Metric Kit 50502022</p>	<p>8" Imperial Systems Kit 0211860</p>	<p>8" Imperial 2" Port Retrofit Kit 0211851</p>	<p>8" Imperial 1 1/2" Port Retrofit Kit 0211858</p>
<p>1022033</p> <p>1006103</p> <p>1005183</p> <p>1001123</p> <p>0151258</p> <p>1022034 WITH DRAIN PORT</p> <p>4000129</p>	<p>1005176</p> <p>1006103</p> <p>1005183</p> <p>1001123</p> <p>0151258</p> <p>1005175</p>	<p>1005176</p> <p>1006103</p> <p>1005183</p> <p>1001123</p> <p>0151258</p> <p>1005175</p> <p>0235042</p>	<p>1005176</p> <p>1006103</p> <p>1005183</p> <p>1001123</p> <p>0151258</p> <p>1005175</p> <p>0235042</p>

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