



# 8" KPAK®: 8638 M-183-LPP MODULE

## E-Coat Ultrafiltration Modules

### PRODUCT DESCRIPTION

KMS Part Number (KPN):	0750785
Membrane Chemistry:	PVDF
Membrane Type:	HFM (Positive Charge)
Membrane Area:	288 ft <sup>2</sup> (26.7 m <sup>2</sup> )
Construction:	Spiral wound element with integrated PVC housing
Feed Spacer Thickness:	30 mils (0.8 mm)
Interconnecting Components:	See page 2.

### OPERATING & 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 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
62	14.1	25	1.7
70	15.9	30	2.1
75	17.0	35	2.4

\*Data are based on water @ 77 °F and a specific gravity of 1.0.

### 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® SPIRAL MODULE ASSEMBLY

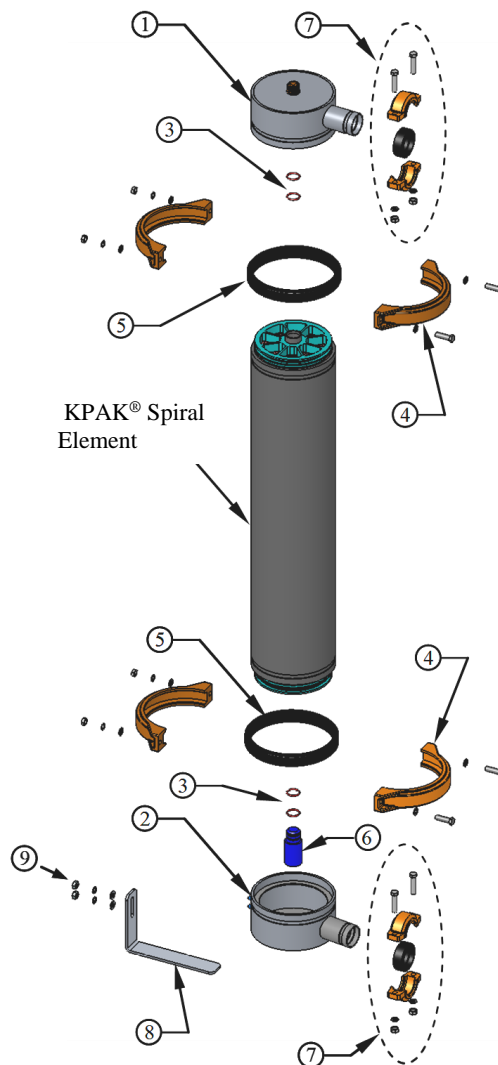
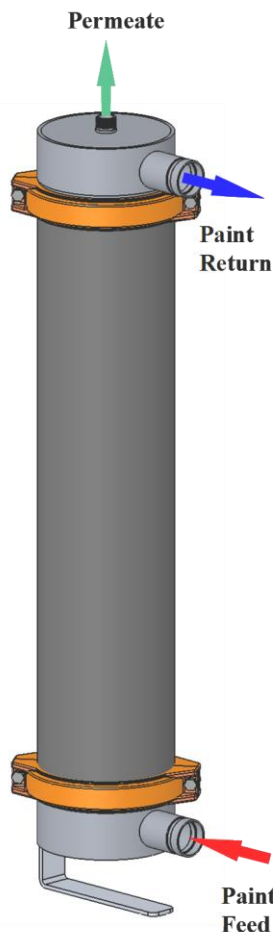
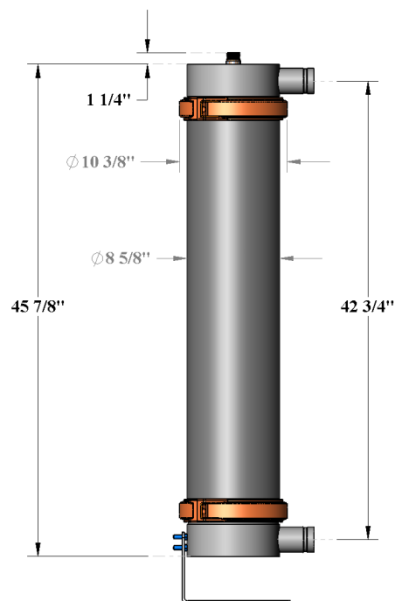
KPN 0211860 – Kit for New Systems

KPN 0211851 – Retrofit Kit with 2" Process Ports

KPN 0211858 – Retrofit Kit with 1½" Process Ports

### Description

Item	Description	Material	KPN	Req.
1	Outlet End Cap	304 SS	1005176	1
2	Inlet End Cap	304 SS	1005175	1
3	Permeate O-Ring	EPDM	1006103	4
4	8" Coupling	Steel	1001123	2
5	8" Gasket	EPDM	Comes with #4	2
6	Permeate Plug	PVC	1005183	1
7a	2" Coupling	Steel/EPDM	0151258	2
or				
7b	2" X 1 ½" Coupling	Steel/EPDM	1004333	2
<u>Items 8-9 are for Retrofit Only</u>				
8	Cartridge Support	304 SS	0030363	1
9	Hardware 3/8"-16UNC	304 SS	0211865	1



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