



10" KPAK: 10738 M-300-LPP MODULE

Zero Bypass E-Coat Ultrafiltration Spiral Modules

PRODUCT DESCRIPTION

| | |
|------------------------------------|--|
| KMS Part Number (KPN): | 0750987 |
| Membrane Chemistry: | PVDF |
| Membrane Type: | HFM (Neutral 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

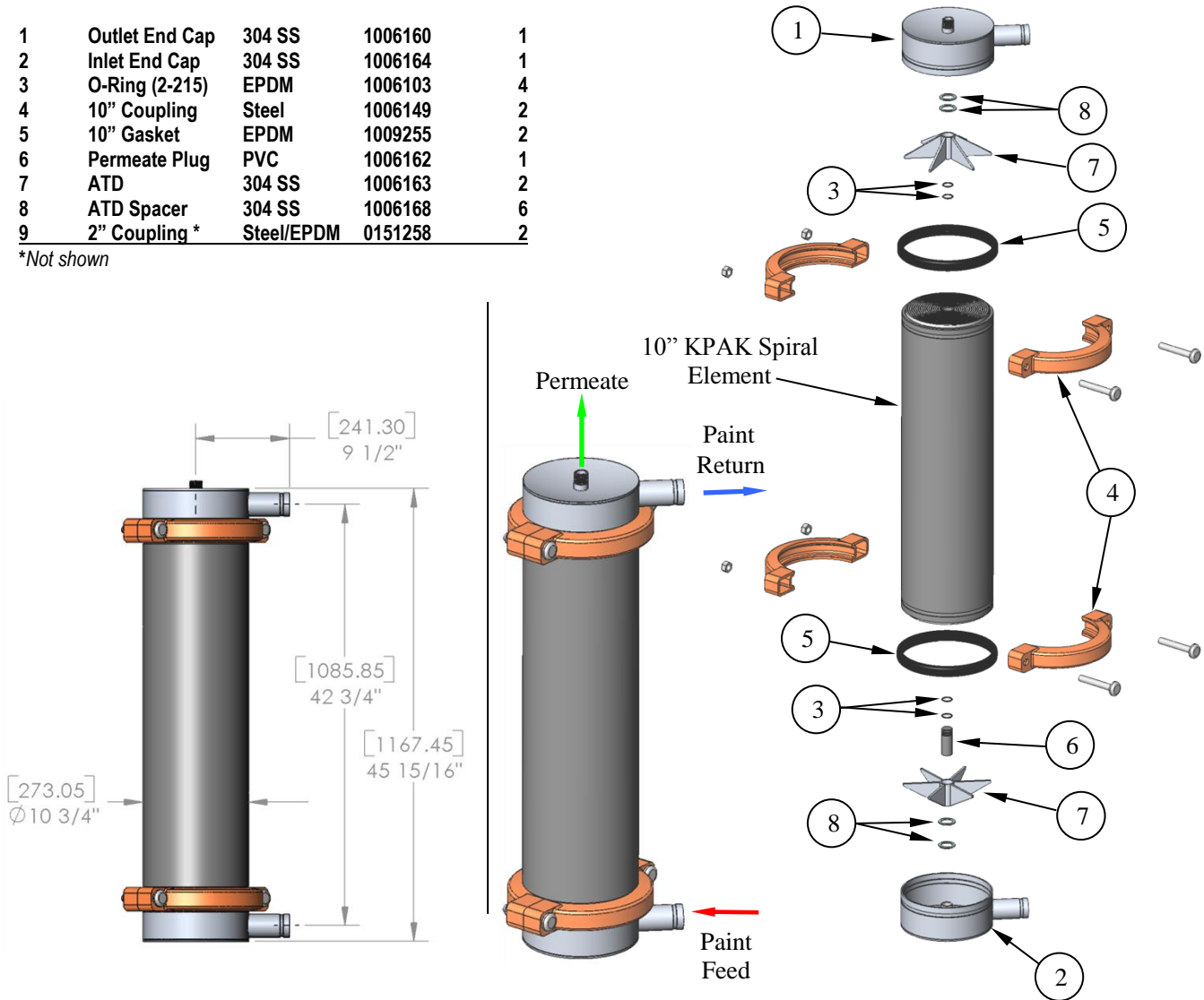
| | |
|---------------------------------|---------------------|
| Element Length: | 38.0 in (965 mm) |
| Element O.D.: | 10.75 in (273.1 mm) |
| Permeate Tube I.D.: | 1.3 in (33.0 mm) |
| Element Shipping Weight: | 95 lbs (38.6 kg) |
| Element Working Weight: | 150 lbs (68.2 kg) |

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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