

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

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

OPERATING AND 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 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)*

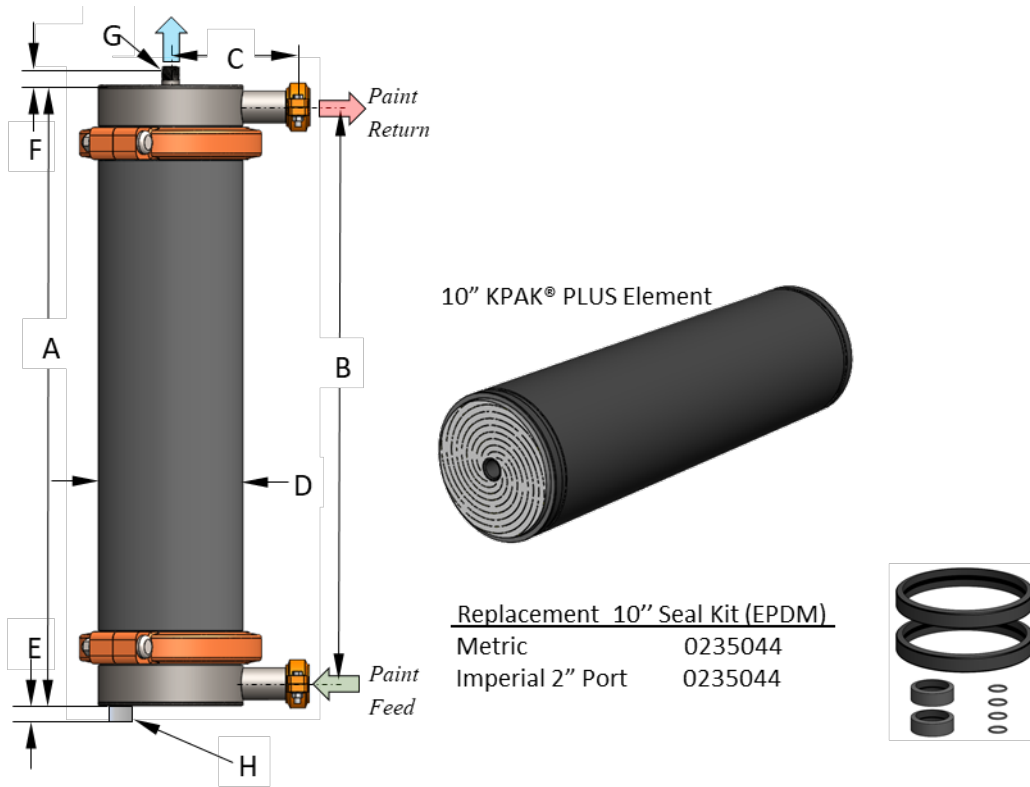
| Circulation Flow | | Pressure Drop | |
|------------------|--------------------|---------------|-----|
| gpm | m ³ /hr | psi | bar |
| 97 | 21.6 | 25 | 1.7 |
| 109 | 24.3 | 30 | 2.1 |
| 117 | 26.1 | 35 | 2.4 |

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

NOMINAL DIMENSIONS

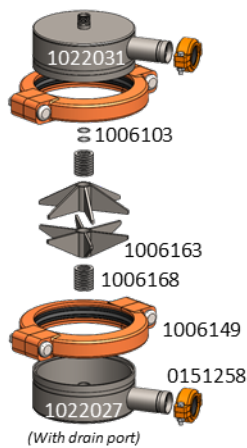
| | |
|---------------------------------|---------------------|
| Element Length: | 38.0 in (965 mm) |
| Element O.D.: | 10.75 in (273.1 mm) |
| Permeate Tube I.D.: | 1.3 in (33.0 mm) |
| Element Shipping Weight: | 95 lbs (43 kg) |
| Element Working Weight: | 150 lbs (68.2 kg) |

OPERATING GUIDELINES

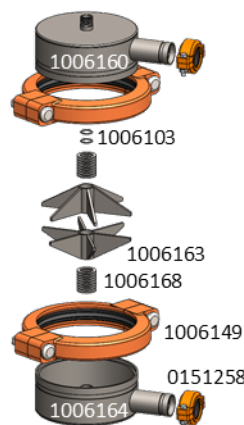


| MODEL | A | B | C | D | E | F | G | H |
|-----------------|-------|--------|-------|--------|-----|-------|-----------|-----------|
| Metric (mm) | 1,167 | 1,086 | 241 | 273 | 28 | 28 | 1" MBSPTG | 1/2" FBSP |
| Imperial (inch) | 46 | 42 3/4 | 9 1/2 | 10 3/4 | N/A | 1 1/4 | 1" MNPT | N/A |

10" Metric Systems Kit 4001339



10" Imperial Systems Kit 1005955



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Koch Separation Solutions, Inc. 850 Main Street, Wilmington, MA 01887
 Main: +1-978-694-7000 • Fax: +1-978-657-5208 • Toll Free: +1-888-677-5624

For complete contact information and listing of our global locations, visit www.kochseparation.com

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