

LENNTECH

info@lenntech.com Tel. +31-152-610-900 www.lenntech.com Fax. +31-152-616-289

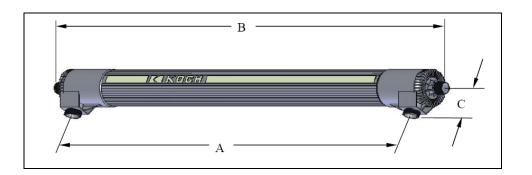
# SPIRAPAK<sup>™</sup> MODULE: 4038-HFM-183-VPP3

Spiral Ultrafiltration Module for Cathodic Electrocoat Paint

| PRODUCT<br>DESCRIPTION                  | KMS Part Number:<br>Membrane Chemistry:<br>Membrane Type:<br>Membrane Area:<br>Construction:<br>Seal:<br>Feed Spacer Thickness:  | 0750781<br>PVDF<br>HFM (positive charge)<br>63 ft <sup>2</sup> (5.9 m <sup>2</sup> )<br>Spiral wound element with integrated PVC housing<br>EPDM<br>0.046" (1.1 mm) |   |
|---|--|---|---|
| OPERATING AND<br>DESIGN<br>INFORMATION* | Maximum Inlet Pressure:<br>Maximum Operating Temperature:<br>Allowable pH – Continuous Operation:<br>Allowable pH – Short Term Cleaning:<br>Maximum Feed Side Pressure Drop:<br>Maximum Permeate Pressure: |   | 80 psi @ 125°F (5.5 bar @ 52°C)<br>125°F (52°C)<br>3 – 7 @ 125°F (52°C)<br>2 – 7 @ 125°F (52°C)<br>40 psi @ 125°F (2.8 bar @ 52°C)<br>5 psi (0.3 bar) |

\*Consult Process Technology Group for specific information.

# NOMINAL DIMENSIONS



| A<br>inches (mm) | B<br>inches (mm) | C<br>inches (mm) | Working<br>Weight<br>Ibs (kg) | Permeate<br>and Process<br>Connections |  |
|------------------|------------------|------------------|-------------------------------|--|--|
| 49.6 (1,260)     | 56.4 (1,430)     | 2.5 (64)         | 45 (20)                       | 1- ¼ NPSM                              |  |

## MEMBRANE INCOMPATIBILITY

Prior to exposing the membrane to any chemical, the chemical should be reviewed by Koch Membrane Systems. Aside from the listed chemicals below, synthetic coolants, semi-synthetic coolants, kerosenes, naphtha, gasoline, floc polymers may affect membrane performance.

#### Chemicals that should be avoided include the following:

Aprotic Solvent (e.g., Dimethyl Formamide, Dimethyl Acetamide, N-Methyl Pyrolidine, etc.) Chlorinated Solvents (e.g., Methylene Chloride, Chloroform, Carbon Tetrachloride, etc.) Ketones (e.g., Acetone, Diacetone Alcohol, etc.) Silicones or Silicone based Defoamers (e.g., Siloxane)

# SPIRAPAK MODULE ASSEMBLY

| Item | Description  | Qty<br>/Unit | KPN     |
|------|--|--------------|---------|
| 1    | Permeate connection Option #1 – 5/8" OD Rigid Tubing | 1            | 0231208 |
| 2    | Permeate connection Option #2 –<br>1/2" ID Flex hose | 1            | 0231207 |
| 3    | Permeate connection Option #3 – 1½" Sanitary ferrule | 1            | 0212300 |
| 4    | Nut  | 4            | 0020281 |
| 5    | Permeate adapter                                     | 1            | 0030375 |
| 6    | Seal washer  | 4            | 0020370 |
| 7    | Retaining ring                                       | 2            | 0020310 |
| 8    | Process adapter                                      | 2            | 0216003 |
| 9    | 11/2" Sanitary seal                                  | 2            | 0090400 |
| 10   | 11/2" Sanitary coupling                              | 1            | 0210465 |
| 11   | Process plug   | 1            | 0030040 |

### SERVICE AND ONGOING TECHNICAL SUPPORT

Koch Membrane Systems, Inc. has an experienced staff of professionals available to assist end-users and OEMs for optimization of existing systems and support the development of new applications. Along with the availability of supplemental technical bulletins, Koch Membrane Systems, Inc. also offers a complete line of KOCHKLEEN<sup>®</sup> cleaning chemicals.

The information contained in this publication is believed to be accurate and reliable, but is not to be construed as implying any warranty or guarantee of performance. We assume no responsibility, obligation or liability for results obtained or damages incurred through the application of the information contained herein. Refer to Standard Terms and Conditions of Sale and Performance Warranty documentation for additional information.



SPIRAPAK is a trademark, and KOCHKLEEN is a registered trademarks of Koch Membrane Systems, Inc. Koch Membrane Systems, Inc. is a Koch Chemical Technology Group, LLC company. © 2008 Koch Membrane Systems, Inc. All rights reserved worldwide. 04/08

