

ROMICON® 5" Hollow Fiber Cartridges

5" Diameter Hollow Fiber Ultrafiltration Cartridges

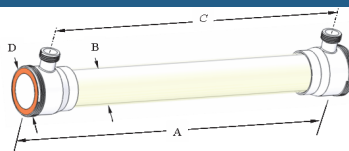
| PRODUCT DESCRIPTION | |
|--|--|
| Membrane Polymer: | Polysulfone |
| Housing Construction: | Polysulfone |
| Seal/Potting Material: | Proprietary Epoxy Compound |
| Storage Solution: | Glycerin |
| Regulatory Status: | Selected PM5, PM10, PM30, PM50, PM100 and PM500 cartridges are compliant with US FDA CFR Title 21, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. Selected Citrus cartridge(s) are Halal-certified by the Islamic Food and Nutrition Council of America (IFANCA). |
| Options: | |
| Lumen size: | 20 mil (0.5 mm), 43 mil (1.1 mm), 60 mil (1.5 mm), 75 mil (1.9 mm), 106 mil (2.7 mm) |
| Membrane Type: | PM5, PM10, PM30, PM50, PM100, or PM500 |
| Special Construction for Specific Applications: | |
| Vinegar Filtration: | Selected PM50 and PM500 cartridges are available for vinegar filtration. |
| Citrus Filtration: | Selected PM10, PM50 and PM500 cartridges are available for citrus filtration. |
| ISOCON Cartridge: | ISOCON PM10 20-mil cartridge is available for high temperature cleaning |
| ROMIPRO Cartridges: | Selected cartridges of all membrane types are available with components that have passed USP Class VI test guidelines. |

| CARTRIDGE AVAILABILITY AND MEMBRANE AREA | | | | | | |
|---|---------------|---------------------------|-----------------|-----------------|-----------------|-----------------|
| Membrane Type | MWCO (Dalton) | Fiber Diameter [Mil (Mm)] | | | | |
| | | 20 (0.5) | 43 (1.1) | 60 (1.5) | 75 (1.9) | 106 (2.7) |
| PM5 | 5,000 | | • | | | |
| PM10 | 10,000 | • | • | • | | |
| PM30 | 30,000 | | • | | | |
| PM50 | 50,000 | | • | • | • | |
| PM100 | 100,000 | • | • | | | |
| PM500 | 500,000 | | • | | • | • |
| Membrane Area [ft² (m²)] | | 132 (12.3) | 66 (6.2) | 66 (6.2) | 52 (4.8) | 40 (3.7) |

| OPERATING AND DESIGN INFORMATION* | |
|---|---|
| Maximum Inlet Pressure: | 40 psi (2.8 bar) |
| Maximum Transmembrane Pressure: | 35 psi (2.4 bar) |
| Maximum Operating Temperature (at pH 6.0): | 140°F (60°C) |
| Maximum Cleaning Temperature: | 130°F (54°C) |
| Maximum Permeate Side Back Pressure: | 20 psi (1.4 bar) |
| Maximum Differential Pressure Feed Side: | 30 psi (2.1 bar) |
| Allowable pH: | 1.5 – 13.0 @ 130°F (54°C) |
| Maximum Total Chlorine (During Cleaning): | 200 ppm @ pH 10-10.5, 130°F (54°C) 0 ppm @ pH less than 9.5 |

*Consult KSS Process Technology Group for specific applications.

NOMINAL DIMENSIONS



| A | | B | | C | | D | | Permeate Connection | Process Connection |
|--------|--------|--------|-------|--------|-------|--------|-------|---------------------|--------------------|
| inches | (mm) | inches | (mm) | inches | (mm) | inches | (mm) | | |
| 43 | (1092) | 5.0 | (127) | 38 ⅜ | (981) | 6.0 | (152) | 1 ½" NPSM | 6" NPSM |

OPERATING GUIDELINES

Membrane Characteristics:

ROMICON® cartridges should be selected for filtration of liquids based on the separation range needed. They provide stable productivity, ease of cleaning and reliable operation. KSS ROMICON® cartridges are crossflow-type filters, in which the feed solution is pumped across the cartridge to minimize solids cake buildup on the membrane. Crossflow filters provide efficient filtration at low operating pressure, allowing long process runs while reducing cleaning time, cleaning frequency, and labor costs.

Exposure to Chemical Oxidants:

While not recommended for use on a daily basis, exposure to chemical oxidants for thorough cleaning and sanitization may prove necessary and useful.

Potassium metabisulfite (without catalyst such as cobalt) is the preferred chemical to eliminate residual chlorine or similar oxidizers prior to processing process liquid.

Lubricants:

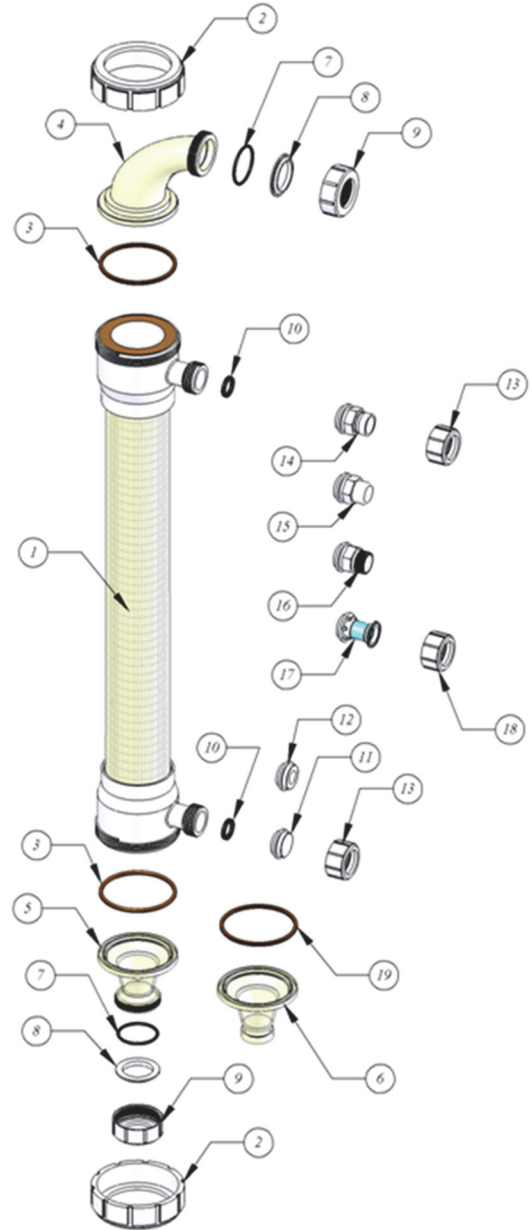
For cartridge installation, use only water or glycerin to lubricate seals. The use of petroleum or vegetable-based oils or solvents may damage the cartridge and will void the warranty

Service and Ongoing Technical Support

Koch Separation Solutions, 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 Separation Solutions, Inc. also offers a complete line of KOCHKLEEN® cleaning chemicals

5" HOLLOW FIBER CARTRIDGE HARDWARE

| Item | Description | KPN |
|------|--|------------------------------|
| 1 | 5" HF Cartridge | 072XXXX |
| 2 | Process Cap Nut | 0040364 |
| 3 | Cartridge Gasket | EPDM 0090443 BUNA 0090444 |
| 4 | Cartridge Reducing Elbow | 0040365 |
| 5 | Cartridge Straight Adapter (threaded) | 0040376 |
| 6 | Cartridge Straight Adapter (Victaulic) | 0213000 |
| 7 | Manifold Gasket | EPDM 0090439 BUNA 0090432 |
| 8 | Cartridge Backup Ring | 0040368 |
| 9 | Manifold Cap Nut | 0040367 |
| 10 | Permeate Port Gasket | EPDM 0090447 BUNA 0090446 |
| 11 | Permeate Plug | 0040375 |
| 12 | Permeate Adapter ¼" NPTF | 0040372 |
| 13 | Permeate Cap Nut (for 14, 15, 16) | 0040370 |
| 14 | Permeate Adapter (Victaulic) | 0213076 |
| 15 | Permeate Adapter Plain | 0213093 |
| 16 | Permeate Adapter NPT | 0213077 |
| 17 | Permeate Adapter Sanitary | 0211787 |
| 18 | Permeate Cap Nut (for part 17) | 0040377 |
| 19 | Cartridge Seal | 0211094 |



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