

WINEFILTER II 5" Hollow Fiber Cartridges

Hollow Fiber Crossflow Cartridges for Wine Filtration

PRODUCT DESCRIPTION

| | |
|------------------------------|---|
| Membrane Type: | Microfiltration |
| Membrane Material: | Polysulfone |
| Regulatory Status: | Compliant with US FDA CFR Title 21, EC Reg. No. 1935/2004, and EU Reg. No. 10/2011. |
| Housing Construction: | Polysulfone shell and end caps |
| Storage Solution: | Glycerin |

SPECIFICATIONS

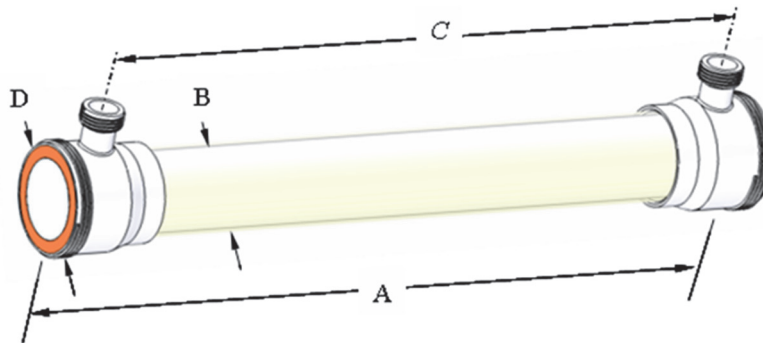
| Model | Part Number | Active Membrane Area ft ² (m ²) | Fiber Inside Diameter mil (mm) |
|--------------------|-------------|---|-----------------------------------|
| WINEFILTER II 5043 | 0720181 | 70 (6.5) | 43 (1.1) |
| WINEFILTER II 5060 | 0720217 | 97 (9.0) | 43 (1.1) |

OPERATING AND DESIGN INFORMATION*

| | |
|---|----------------------------|
| Recommended Inlet Pressure: | 20-30 psi (1.4-2.1 bar) |
| Maximum Transmembrane Pressure: | 25 psi (1.7 bar) |
| Maximum Feed Side Pressure Drop: | 25 psi (1.7 bar) |
| Maximum Backflush Pressure: | 20 psi (1.4 bar) |
| Maximum Operating Temperature: | 104°F (40°C) @ pH 6 |
| Maximum Cleaning Temperature: | 122°F (50°C) |
| Allowable pH (Cleaning): | 1.5 – 13.0 @ 104° F (40°C) |

*Consult KSS Process Technology Group for specific information.

NOMINAL DIMENSIONS



| Model | A | | B | | C | | D | | Permeate Connection | Process Connection |
|--------------------|--------|---------|--------|-------|--------|---------|--------|-------|---------------------|--------------------|
| | inches | (mm) | inches | (mm) | inches | (mm) | inches | (mm) | | |
| WINEFILTER II 5043 | 43 | (1,092) | 5.0 | (127) | 38 % | (981) | 6.0 | (152) | 1 ½" NPSM | 6" NPSM |
| WINEFILTER II 5060 | 60 | (1,524) | 5.0 | (127) | 55 % | (1,413) | 6.0 | (152) | 1 ½" NPSM | 6" NPSM |

OPERATING GUIDELINES

5" HOLLOW FIBER CARTRIDGE HARDWARE

| Item | Description | KPN |
|------|---------------------------------------|------------------------------|
| 1 | 5" HF Cartridge | |
| 2 | Process Cap Nut | 0040364 |
| 3 | Cartridge Gasket Silicon | 0211095 |
| 4 | Cartridge Reducing Elbow | 0040365 |
| 5 | Cartridge Straight adapter (threaded) | 0040376 |
| 6 | Manifold Gasket | EPDM 0090439 BUNA 0090432 |
| 7 | Cartridge Backup Ring | 0040368 |
| 8 | Manifold Cap Nut | 0040367 |
| 9 | Permeate Port Gasket | 0090448 |
| 10 | Permeate Plug | 0040375 |
| 11 | Permeate Adapter Sanitary | 0211787 |
| 12 | Permeate Cap Nut (for part 17) | 0040377 |

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.

Exposure to Chemical Oxidants:

Exposure to chemical oxidants for thorough cleaning and sanitization may prove necessary and useful.

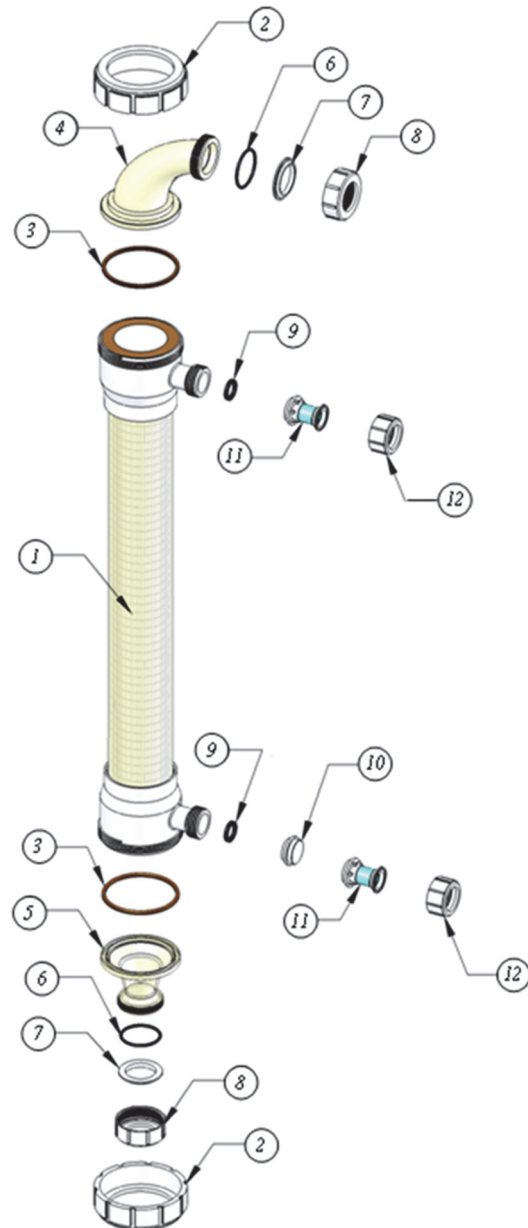
- Chemical oxidants commonly used in food applications include peracetic acid blends, hydrogen peroxide, and sodium hypochlorite. Please consult KSS for recommended addition rates, frequency of use, and tolerance.
- Potassium metabisulfite (without catalyst such as cobalt) is the preferred chemical to eliminate residual chlorine or similar oxidizers prior to processing the feed stream.

KSS Capability

KSS is the leader in crossflow membrane technology, manufacturing reverse osmosis, nanofiltration, microfiltration, and ultrafiltration membranes and membrane systems. The industries served include food, dairy and beverage, pharmaceutical, biotechnology, water and wastewater, semiconductors, automotive, chemical and general manufacturing. KSS adds value by providing top quality membrane products and by sharing its experience in the design and supply of thousands of crossflow membrane systems worldwide.

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



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