

WINEFILTER MF 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
Housing Construction:	Polysulfone shell and end caps
Storage Solution:	Glycerin

SPECIFICATIONS

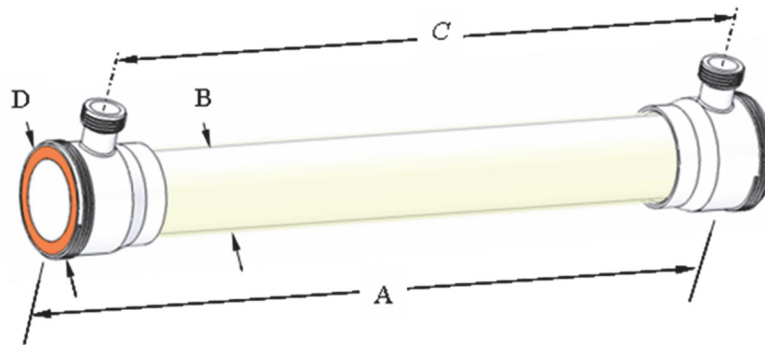
Model	Part Number	Active Membrane Area ft ² (m ²)	Fiber Inside Diameter mil (mm)
WINEFILTER MF 5043	0720263	68 6.3	52 1.3
WINEFILTER MF 5060	0720264	95 8.8	52 1.3

OPERATING & 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		Permeate Connection	Process Connection		
	inches	(mm)	inches	(mm)	inches	(mm)				
WINEFILTER MF 5043	43	(1,092)	5.0	(127)	38 %	(981)	6.0	(152)	1 ½" NPSM	6" NPSM
WINEFILTER MF 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.

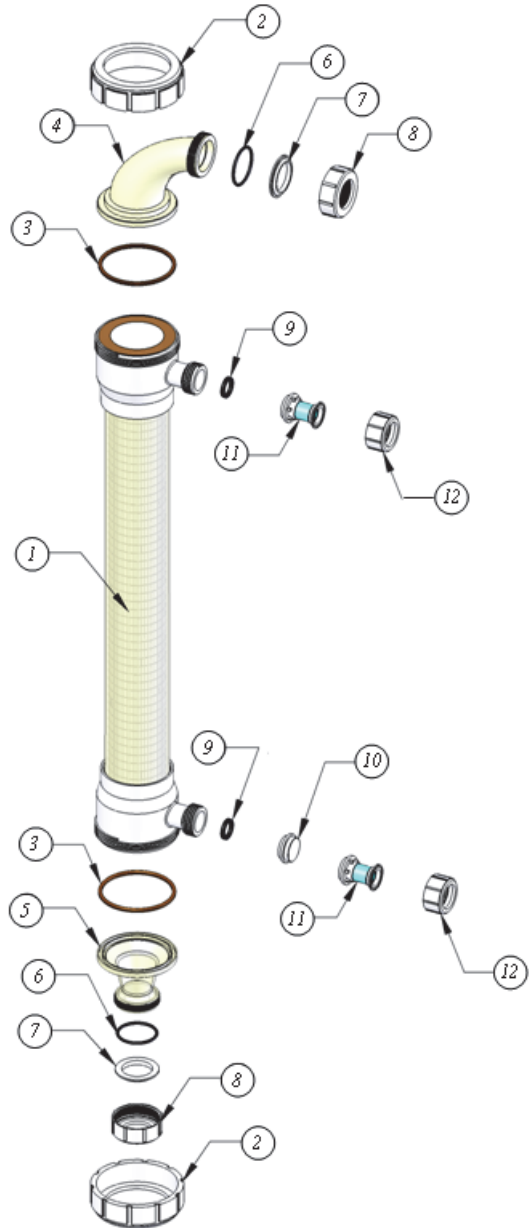
- Chemical oxidants commonly used in food applications include peracetic acid blends, hydrogen peroxide, and sodium hypochlorite. Please consult KSS for recommended addition rates, frequency of use, and tolerance.
- Potassium metabisulfite (without catalyst such as cobalt) is the preferred chemical to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