

High Flow Filter Cartridges & Housings

REV062025

Replace your plate & frame or cross-flow* system with a scaleable High Flow filter system from VA Filtration.

- High flow capability - designed to accommodate flow rates of up to 500 gpm with a single 60" filter cartridge.
- Enhance wine flavors and eliminate possible cross-contamination with disposable filter cartridges.
*Filter cartridges are rated (absolute) as small as 0.5 μ m
- High quality, highly efficient design.
- Lower capital investment.
- Filter more wine in less time without sacrificing wine quality.
- Replacement media is reasonably priced and easy to install.
- Ease of use and ergonomic design.

3M™ High Flow Replacement Filter Cartridge Specifications

Materials of construction

Filter media: Each grade of 3M High Flow filter is manufactured from food contact compliant meltblown polypropylene microfiber media, providing high particle removal efficiency with broad chemical compatibility. No adhesives, binders or silicone are used in the manufacturing process. All support layers are constructed with polypropylene.

O-rings: O-rings are available in a variety of materials to suit your application including the standard nitrile, ethylene propylene rubber (EPR), silicone and fluorocarbon.

Available lengths (nominal):
10" (254 mm), 40" (1,016 mm) and 60" (1,524 mm)



Interchangeable housing accommodates cartridge lengths (nominal) of:

- 10" (254 mm)
- 40" (1,016 mm)
- 60" (1,524 mm)



Pictured: VAF-HF10-2

Pricing:

Housing	Height	Flow Range	Price
VAF-HF10-2	10" (254 mm)	5gpm - 85gpm	\$3,900
VAF-HF40-2	40" (1,016 mm)	5gpm - 350gpm	\$4,750
VAF-HF60-3	60" (1,524 mm)	5gpm - 500gpm	\$5,150
Accessories			Price
VAF-HF10-R	10" Replacement column		\$950
VAF-HF40-R	40" Replacement column		\$1,500
VAF-HF60-R	60" Replacement column		\$1,950
Cartridges	Rating (Absolute)	Price	
Size: 10"	0.5, 1, 5, 10, 50, 70 μ m	\$226 ea	
Size: 40"	0.5, 1, 5, 10, 50, 70 μ m	\$558 ea	
Size: 60"	0.5, 1, 5, 10, 50, 70 μ m	\$622 ea	



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Ordering Guide

Model	Cartridge Length	Material of construction	Absolute micron rating	O-ring material	Packaging
HF – High-flow	10 – 10" (254 mm)	PP – Polypropylene	0005 – 0.5 µm ⁵	A – Silicone ¹	01 - 1 Pack
	40 – 40" (1,016 mm)		001 – 1 µm	B – Fluorocarbon ^{1,2}	
	60 – 60" (1,524 mm)		002 – 2 µm	C – EPR ³	
			005 – 5 µm	D – Nitrile ^{1,4}	
			010 – 10 µm		
			015 – 15 µm		
			025 – 25 µm		
			040 – 40 µm		
			070 – 70 µm		

¹Only nitrile, silicone, and fluorocarbon O-rings are NSF/ANSI/CAN std. 61 certified by WQA

²Fluorocarbon O-rings not available in the 0.5 µm High Flow or in the HFM series filters

³EPR O-rings not for use in food contact applications

⁴Nitrile O-rings are not compliant for edible oil and dairy applications

⁵NSF/ANSI 419 certification applicable for 0.5 µm only

Cartridge construction

Filter micron rating (microns)

HF Series: 0.5, 1, 2, 5, 10, 15, 25, 40, 70 absolute rated

HFM Series: 5, 10, 20 µm Absolute, 5 µm Nominal*

*Also rated at 70 µm Absolute

Filter media, center core, end caps, outer sleeve

Polypropylene

Sealing O-ring options

Nitrile, Silicone, Fluorocarbon and EPR (See product selection table for details)

O-ring size

338 (3.0"/76.2 mm)

Cartridge dimensions

Inside diameter (nominal)

3" (76.2 mm)

Outside diameter (nominal)

6.5" (165 mm)

Cartridge length (nominal)

10" (254 mm), 40" (1,016 mm), 60" (1,524 mm)

Operating conditions

Maximum recommended flow rate in water (@20° C)

85 gpm (19.3 m3/hr), 350 gpm (80 m3/hr), 500 gpm (113 m3/hr)

Maximum continuous operating temperature

160° F (71° C)

Maximum hot water sanitation temperature

185° F (85° C)

Maximum forward differential pressure

50 psid @ 68° F (3.4 bar @ 20° C)

Recommended change-out differential pressure

35 psid @ 68° F (2.4 bar @ 20° C)

Microbial Control

The 3M High Flow HF Series 0.5 µm and 1 µm filter media demonstrates excellent microbial reduction as presented below.

High Flow Media Grade	Microorganism Used for Challenge	Challenge Level	Organisms in Filtrate	LRV
0.5 µm	Saccharomyces cerevisiae (ATCC-36026)*	1.3 x 10 ⁷ CFU/cm ² of media	0 CFU	>8.1
1 µm	Saccharomyces cerevisiae (ATCC-36026)*	1.3 x 10 ⁷ CFU/cm ² of media	20 CFU	6.8
0.5 µm	Microspheres as a surrogate for Cryptosporidium Oocyst**	3,286 microspheres / 100 ml	9 microspheres / 100 ml	2.6

Challenge conditions used in these tests: *Microbial concentration 3x10⁵ – 5x10⁵ organisms/ml, Flow Rate 0.25 gpm/ft² (10 L/min/m²)

**Microspheres, Flow Rate 55 gpm / HF10 filter, Terminal Differential Pressure 35 psid

Fluid compatibility

Chemical	Temperature	Chemical	Temperature	Chemical	Temperature
Acetic acid 20%	71° C	Hydrogen peroxide	38° C	Sodium carbonate	71° C
Alkanolamines	60° C	Methyl ethyl ketone	21° C	Sodium hydroxide 70%	71° C
Ammonium hydroxide	71° C	Mineral oil	21° C	Sulphuric acid 20%	71° C
Bleach 5.5%	49° C	Nitric acid 20%	49° C	Sulphuric acid 70%	71° C
Ethylene glycol	71° C	Potassium hydroxide	60° C	Urea	71° C

NOTE: The thermal and chemical resistance data presented in this brochure is for guidance only. Factors such as duration of exposure, O-ring material, fluid concentration and temperature should also be considered. Thermal and chemical resistance should also be considered when choosing all materials exposed to fluids.



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