

Vent-MAXX

Double Layer PTFE for Sterilization in Air & Vent Gas Applications

- ▶ FERMENTER INLET AIR
- ▶ STERILE VENTING OF TANKS

- ▶ STERILE PROCESS AIR
- ▶ EXHAUST VENTING



Strainrite's **Vent-Maxx** gas sterilizing filters set a new standard for PTFE membrane elements. These filters utilize a technologically advanced membrane in our unique pleat construction to deliver unrivalled efficiency, superior strength, and high flow rates.

Vent-Maxx double layer PTFE membrane filters are designed to remove microorganisms, particulate, and moisture in your most demanding air and gas applications. These liquid validated sterilizing grade filters are designed to meet the highest levels of security required in the pharmaceutical, food and beverage, and biopharmaceutical industries.

Vent-Maxx filters conform to USP Class VI – 121oC and 21 CFR Part 177. Strainrite delivers clear solutions to your air and gas filtration applications.



- ▶ PTFE MEMBRANES
- ▶ INHERENTLY HYDROPHOBIC MEDIA
- ▶ 100% INTEGRITY TESTED
- ▶ HIGH SURFACE AREA
- ▶ STERILIZING GRADE IN LIQUIDS
- ▶ VIRUS RETENTIVE IN GASES
- ▶ THERMALLY BONDED CONSTRUCTION
- ▶ WATER INTRUSION TESTABLE
- ▶ QUALITY CONTROL CERTIFICATE WITH EVERY FILTER
- ▶ FDA LISTED MATERIALS PER CFR 21
- ▶ CAN BE STEAM STERILIZED MULTIPLE TIMES IN SITU FOR LONGER FILTER LIFE
- ▶ MANUFACTURED IN CERTIFIED CLEAN ROOMS

ORDER GUIDE



MAXIMUM DIFFERENTIAL PRESSURE																	
Forward:		Reverse:															
75 psid (5.1 bar) @ 75°F (24°C)		50 psid (3.4 bar) @ 75°F (24°C)															
40 psid (2.8 bar) @ 180°F (82°C)																	
MAXIMUM OPERATING TEMPERATURE																	
180°F (82°C) Continuous Duty																	
TOXICITY																	
Cartridge materials meet USP Class VI and CFR 21 for food and beverage contact																	
STERILIZATION																	
Vent-Maxx cartridges have been validated for bacterial removal in air at an aerosol bacterial challenge level of <i>Brevundimonas diminuta</i> at 10 ⁷ per cm ² per ASTM (F 838-05)																	
Liquid challenge validated as sterilizing grade filter at a challenge level of <i>Brevundimonas diminuta</i> at 10 ⁷ per cm ² per ASTM (F 838-05)																	
Water Intrusion Test (WIT) value of > 60 psi with a WIT not to exceed 75 psi																	
PACKAGING ECONOMY																	
Bulk packaging in case quantities to reduce material disposal: 5 inch - 48 per carton 10 inch - 24 per carton 20 inch - 12 per carton 30 inch - 12 per carton																	
FILTER MEDIA	END CAPS/ CAGE/CORE	PLEAT SUPPORT MATERIAL	END CAP INSERT														
Double Layer PTFE	Polypropylene	Polypropylene	316 Stainless Steel														
SEALS		CONSTRUCTION METHOD															
Fluorocarbon Silicone		Thermal Bond															
OUTSIDE DIAMETER		APPROXIMATE SURFACE AREA															
2.7" (6.87cm)		7.5 square feet per 10" equivalent															
LENGTHS																	
5 inch (12.7 cm) 10 inch (25.4 cm) 20 inch (50.8 cm) 30 inch (76.2 cm)																	
INTEGRITY TEST VALUES																	
All cartridges are integrity tested prior to shipment using pressure decay test method. Values below are for cartridges wetted with 100% IPA.																	
CARTRIDGE	TEST PRESSURE	DIFFUSIONAL FLOW															
10"	14 psi	25mL/min															
20"	14 psi	50mL/min															
30"	14 psi	75mL/min															
PERFORMANCE CHARACTERISTICS																	
<table border="1"> <caption>Pressure Drop vs Air Flow Rate Data</caption> <thead> <tr> <th>Air Flow Rate (SCFM)</th> <th>Pressure Drop (PSID)</th> </tr> </thead> <tbody> <tr><td>0</td><td>0.0</td></tr> <tr><td>20</td><td>0.2</td></tr> <tr><td>40</td><td>0.4</td></tr> <tr><td>60</td><td>0.6</td></tr> <tr><td>80</td><td>0.8</td></tr> <tr><td>100</td><td>1.15</td></tr> </tbody> </table>				Air Flow Rate (SCFM)	Pressure Drop (PSID)	0	0.0	20	0.2	40	0.4	60	0.6	80	0.8	100	1.15
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ORDER OPTIONS

CARTRIDGE	
VM	Vent-MAXX
CARTRIDGE LENGTH	
5, 10, 20, 30	
END CAP CONFIGURATIONS	
C3 C6 C7 C8	Flat/222 Flat/226 Fin/226 Fin/222
GASKET / O-RING MATERIAL	
S V	Silicone Fluorocarbon
CARTRIDGE GRADE	
2	Pharmaceutical