

# VENTSHIELD | Air Filter with Dustshield VF Shielding

Our VF Shielding combines the benefits of an attenuation vent panel with the properties of a dust filter in a single frame, unlike VB Shielding which utilises separate units fixed together in-situ.

Standard frame styles are AF1, AF2, AF3, AF4, AF6, AF7 and AF8 and they incorporate a triple layer of woven and corrugated aluminium mesh. Each layer has a slightly different degree of corrugation and so provides separation and increased airflow potential. To enable it to perform its dual function the VF filter material is relatively dense and so requires an assisted airflow to operate correctly. A 'kick plate' is built into the unit to protect the filter from damage.

## Applications:

Aluminium mesh dust filters are mounted in the same manner as the VH Shielding and are used in industrial or military environments where a 'heavy duty' attenuating dust filter is required and a lighter weight de-membrated polyurethane VB Shielding is not suitable. They are not designed for pure convection and need a driven airflow. They may be solvent cleaned after removal but particular attention should be paid to the replacement of gaskets which could be affected by compression-set or hydrocarbon/solvent contamination.

## Specifications:

Woven Aluminium Screen

AMS-4182

### Performance: Typical dB

(based on a 250mm<sup>2</sup> test section)

FREQUENCY	FIELD	ATTENUATION
10KHz	H	42
100KHz	H	53
1MHz	H	61
1MHz	E	92
10MHz	E	81
100MHz	E	60
1GHz	P	52
10GHz	P	43

### Tolerances:

Overall dimensions	±0.8mm
Fixing holes/fasteners	±0.5mm with jigs ±0.2mm

### How to order:

Specify: *Series - Frame Style - Vent Media - Overall Size - Number of Fixings - Fixing Type/Size*

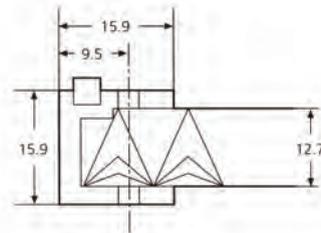
Where possible please provide a detailed drawing.

### Example:

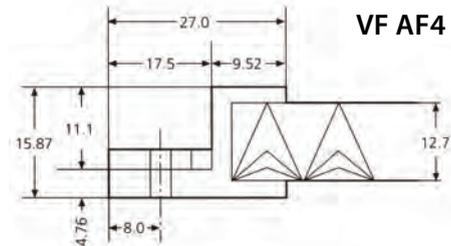
VF-AF1-08-2260-4330-12-T/H (4.8) specifies a corrugated three layer aluminium woven mesh dust-filter in an AF1 style frame with 12 through holes of 4.8 mm diameter. The hole positions would be agreed with the customer prior to manufacture or as shown on the customer drawing.



VF AF2



VF AF4



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SERIES	FRAME STYLE	VENT MEDIA	OVERALL SIZE	FIXINGS (NO.)	FIXING TYPE
VF-Dust Filter	AF1	08=Triple mesh	xxxx-xxxx	xx	C/T=Captive insert
Aluminium	AF2				T/H=Through hole
	AF3				
	AF4				
	AF6				
	AF7				
	AF8				