

AIREFLOW-V

Extended Surface Mini-pleat Filter

Description

AireFlow-V extended surface mini-pleat filters are designed for use in most commercial or industrial HVAC systems where medium to high efficiency filtration is required. The AireFlow-V has been designed to withstand the rigors of turbulent airflow and can remove contaminants such as smoke, bacteria, fume, fungi and virus-bearing droplet nuclei. AireFlow-V filters are available in M6 to H11 95% DOP efficiencies. The AireFlow-V has been designed to operate in systems with face velocities up to 3.38 m/sec.

Typical applications for AireFlow-V filters include, medical facilities, universities, pharmaceutical manufacturing, research facilities, foundries, power plants, gas turbines, food and dairy processing facilities and in any application where clean air and high velocities are a requirement.

Construction

AireFlow-V filter media is manufactured from micro glass fibre media, which is highly resistant to moisture in high humidity environments. The media is then formed into multiple mini-pleat media packs and assembled into a series of V-banks. These are then securely bonded (fully potted) to an ABS frame casing that forms a filter that is both corrosion and moisture resistant.

The AireFlow-V's sturdy ABS polymer frame construction ensures rigidity and thermal stability. Contaminant bypass is eliminated by superior construction features that include a foam seal on the housing edge and the mini-pleat media packs being securely bonded (fully potted) to the frame. Vulnerable outer media pleats are also protected by sturdy metal mesh to avoid any potential risk of damage to the filter media during handling, installation or transport. (This reduces the potential risk of fingers damaging the filter media during filter installation).

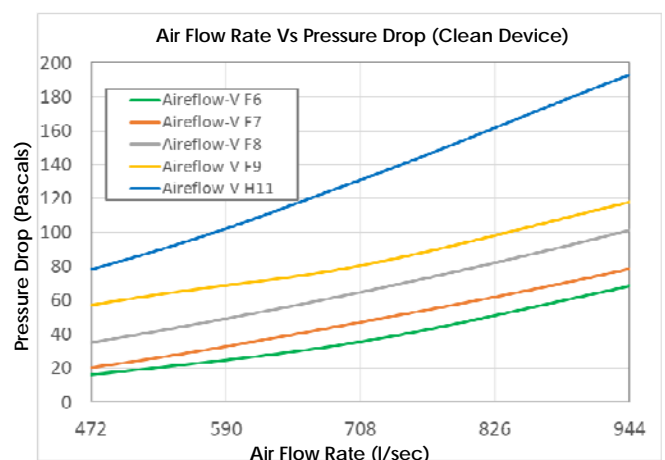
Benefits

AireFlow-V filters have an extremely low initial pressure drop compared to other filters on the market. This low pressure drop results in lower energy costs and extended service intervals.

The AireFlow-V filter has been designed to fit all commonly used filter frames and housings; header size is 20mm, and requires only 300mm depth for installation. Installation position, service side and direction of airflow can be in any direction.

Features

- Tested to EN779:2012, EN1822-5:2009
- Energy Saving
- Airflows up to 1,260 l/sec
- Operates in 100% Relative Humidity
- 70° C Maximum Temperature
- High Dust Holding Capacity
- 18m² of Effective Media Area
- Downstream Face Guard Screens (Optional)
- Other sizes available upon request



AIREFLOW-V FILTER DIMENSIONS & CAPACITIES

65 SERIES M6

Product code	Actual Size	Nominal Size	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.5 m/s (l/s)	Initial Resistance @ 2.5 m/s	Filter Classification	
							EN779	ASHRAE52.2
AF1202412	285 x 590 x 295	305 x 610 x 305	335	34	465	66	M6	MERV11
AF1204412	590 x 590 x 295	610 x 610 x 305	670	34	930	66	M6	MERV11

85 SERIES F7

Product code	Actual Size	Nominal Size	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.5 m/s (l/s)	Initial Resistance @ 2.5 m/s	Filter Classification	
							EN779	ASHRAE52.2
AF1302412	285 x 590 x 295	305 x 610 x 305	335	42	465	78	F7	MERV13
AF1304412	590 x 590 x 295	610 x 610 x 305	670	42	930	78	F7	MERV13

95 SERIES F8

Product code	Actual Size	Nominal Size	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.5 m/s (l/s)	Initial Resistance @ 2.5 m/s	Filter Classification	
							EN779	ASHRAE52.2
AF1402412	285 x 590 x 295	305 x 610 x 305	335	60	465	100	F8	MERV14
AF1404412	590 x 590 x 295	610 x 610 x 305	670	60	930	100	F8	MERV14

98 SERIES F9

Product code	Actual Size	Nominal Size	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.5 m/s (l/s)	Initial Resistance @ 2.5 m/s	Filter Classification	
							EN779	ASHRAE52.2
AF1502412	285 x 590 x 295	305 x 610 x 305	335	79	465	115	F9	MERV15
AF1504412	590 x 590 x 295	610 x 610 x 305	670	79	930	115	F9	MERV15

95 DOP SERIES H11

Product code	Actual Size	Nominal Size	Airflow Capacity @ 1.8 m/s (l/s)	Initial Resistance @ 1.8 m/s	Airflow Capacity @ 2.5 m/s (l/s)	Initial Resistance @ 2.5 m/s	Filter Classification	
							EN779	ASHRAE52.2
AF1602412	285 x 590 x 295	305 x 610 x 305	335	124	465	189	H11	N/A
AF1604412	590 x 590 x 295	610 x 610 x 305	670	124	930	189	H11	N/A

1.0 General

- 1.1 PD represents clean static pressure drop in Pascals. The recommended maximum final pressure drop for all types is 500 Pascals.
- 1.2 AireFlow-V filters are extended media mini-pleat type filters as supplied by Airepure Australia.
- 1.3 Sizes, capacities are noted on drawings or other supporting material.
- 1.4 Nominal size, height and width refers to recommended mounting frame height and width. Nominal size depth refers to recommended filter depth allowance.

2.0 Construction

- 2.1 The media packs are constructed of eight (8) separate mini-pleat packs.
- 2.2 Pleats are spaced uniformly and separated by an EVA hot melt adhesive.
- 2.3 The media pack is potted into the frame casing with a polyurethane sealant.
- 2.4 The frame casing is constructed from ABS plastic.

3.0 Performance

- 3.1 The AireFlow-V filter has a minimum tested efficiency of M6, F7, F8, F9 or H11 (95% DOP) when tested to EN779:2012 and EN1822.5
- 3.2 Initial resistance to airflow shall not exceed the scheduled values.