
AirCare **BIO-MEPA Filters**



- **Remove airborne biological contaminants**
- **Lower pressure drop**
- **Range of frame constructions**
- **Metal-free versions available**
- **Hi-temperature versions available**

Application

AirCare BIO-MEPA Filters are designed to remove airborne biological contaminants. Typical applications are in hospitals, pharmaceutical manufacturing and food processing. These filters are ideal when the 'ASHRAE' efficiency filters (F6-F8) are inadequate and HEPA filters are unnecessary and too restrictive.

Description

HEPA media is made from ultra-fine glass fibre formed into a high density paper. Continuous sheets are pleated to provide a high ratio of media area to filter face area. Corrugated separators maintain uniform spacing between pleats to allow free flow of air through the filter and provide pack strength. The edges of the separators are rolled to prevent media tearing. Each media pack is completely encapsulated in a specially developed sealant to ensure no leakage around the filter media and then encased in a frame of aluminium or other material. Interlocked neoprene gaskets provide an airtight seal.

Performance

Standard filters are rated for 100°C, but temperature ratings up to 400°C can be obtained.

The filter media is designed to withstand 100%RH, but it is not designed to resist long term operation in direct contact with water, steam, other vapours or fluids.

The filters are generally operated at face velocities up to 1.25 m/s for standard 149 mm depth and up to 2.5 m/s for standard 292 mm depth.

AirCare BIO-MEPA filters have an efficiency of 99% when challenged with atmospheric dust per ASHRAE 52.1-1992 (equivalent to EN799). They are rated at 95% efficient against 0.3 micrometer DOP particles. (H11.) Standard filters have aluminium separators, aluminium frames with a single neoprene gasket upstream. For other filters specify the size, the frame material, gasket locations and any other options, such as paper separators, high temperature or faceguards

Mounting

Options include:

AirCare Inline Modules for in-duct applications.

AirCare Safechange Modules for use with hazardous substances.

PAPWORTH ENGINEERING Side Access Filter Housings.

Note: Pleats should be vertical (not horizontal) if filter is mounted vertically.

Physical and Performance Data

Product Code	Dimensions H × W × D mm	Airflow	Initial Resistance	Final Resistance
		L/s	Pa	Pa
FI3950	610 × 610 × 149	230	75	375
		460	150	375
FI3951	305 × 610 × 149	115	75	375
		230	150	375
FI3960	610 × 610 × 292	230	45	500
		460	100	500
		920	230	500
FI3961	305 × 610 × 292	115	45	500
		230	100	500
		460	230	500

Options

Frame Material:

Aluminium	-	-	-	-A
Galvanised Steel	-	-	-	-G
Stainless Steel	-	-	-	-S
High Density Particulate Board	-	-	-	-B

Gasket / Faceguard Location:

	Gasket	Faceguard
Upstream	-UG	-UF
Downstream	-DG	-DF
Both	-BG	-BF

Extras:

Paper separators	-	-	-	-PS
High temperature	-	-	-	-Specify



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Related Products:

AirCare Conventional HEPAs
PAPWORTH ENGINEERING Filter Housings
AirCare Inline Modules
AirCare Safechange Modules

Data Sheets:

E54121
E54146
E54103
E54104