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## *AirCare* HEPA Hoods

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- **Terminal mounting in cleanrooms**
- **Lowest initial cost solution**
- **Simplified installation**
- **Reduced installation damage**
- **No filter bypass**
- **Aluminium construction**
  - **light & corrosion resistant**

## Application

**AirCare** HEPA hoods are designed for terminal mounting in cleanrooms. Terminal mounting of HEPA filters is recommended for best results as contamination of the room from ducting is eliminated.

## Description

The heart of the **AirCare** HEPA hood is a state-of-the-art mini-pleat filter pack sealed in an anodised extruded aluminium casing. An expanded painted metal screen protects the face of the HEPA filter, while a dimpled inlet collar is designed for secure connection to round ducting upstream of the HEPA. Four suspension points are provided to secure seismic restraint wires.

## Quality

**AirCare** HEPA hoods are manufactured in an ISO9002 facility. Each filter is tested for filter efficiency, resistance to airflow and for pinhole leaks in the media or through the seal.

## Mounting

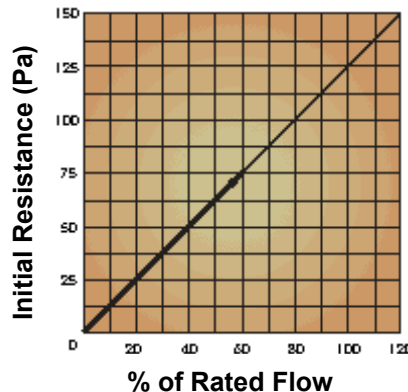
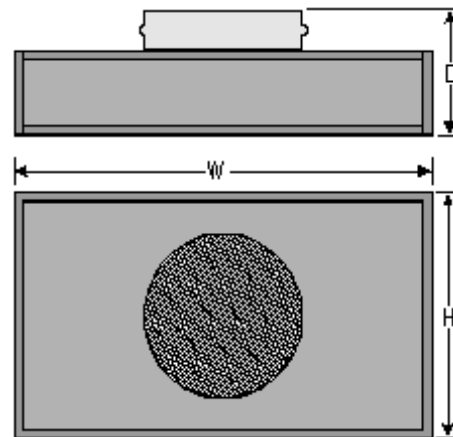
**AirCare** HEPA hoods can be mounted in ceiling T-rail systems or into painted aluminium ceiling frames in other ceilings. The ceiling frames are fitted with neoprene gaskets to ensure a good seal, and gaskets should be fitted to T-rails before mounting the **AirCare** HEPA hood. High efficiency prefilters of at least F7 efficiency are recommended. (80-85% by ASHRAE Standard 52.1)

## Performance

Standard **AirCare** HEPA hoods are 99.99% efficient against 0.3 micron particles. Face velocities of 0.35 m/s to 0.6 m/s are typical. Maximum recommended final pressure drop is 500 Pa. Filters are rated for operation up to 65°C and 100% RH (non condensing).

## Physical and Performance Data

AirCare HEPA Hood Product Code	Dimensions H x W x D	Spigot Diameter	Airflow at 125 Pa (Initial Typi-	Approx Weight	AirCare Ceiling Frame Product Code
	mm	mm	L/S	kg	
FI5610	600 x 600 x 210	250	200	10	HS3010
FI5615	600 x 905 x 210	300	300	14	HS3015
FI5620	600 x 1210 x 210	300	400	18	HS3020



**Airflow/Pressure drop:** The pressure drop across a HEPA filter is closely proportional to the airflow through it. Thus the initial pressure drop for a given design airflow can be easily calculated by using the relationship:

$$Pd/125 = AFd/AFr$$

Where Pd = initial pressure drop at the design airflow  
 AFd = design airflow  
 AFr = rated airflow at 125 Pa (from table)



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Related Products:

**AirCare** Minipleat Panel HEPA Filters  
**AirCare** Safechange Modules  
**AirCare** Inline Modules  
**AirCare** Terminal Modules

Data Sheets:

E54120  
 E54104  
 E54103  
 E54102