

Terminal Housing for HEPA Filters

Applications

The Terminal Housing is the traditional method for fitting HEPA Filters into a ductwork system ensuring high quality clean air is supplied directly to the clean room or equipment where it is required.

The Terminal Housing allows air from the HEPA filter fitted within the housing, to have a minimal time period in which to collect contamination from the surrounding parts of the housing.

The HEPA Filter is changed from within the cleanroom, by removing the 4 way grille and the clamping bolts/removable clips, releasing the HEPA filter from its flat sealing face.

In some applications changing the filter from within the cleanroom could compromise its cleanliness, and for this application a rear or side withdrawal system has been devised.

Airflow enters the housing from a spigoted connection which is circular on the back of the housing, or where roof void space is limited a rectangular side entry can be utilised.

Where negative pressure or containment facilities are built the terminal housing with a side entry spigot can be used for the return air installed within the side walls of the facility, with airflow passing in the reverse direction through housing.

Description

Fabricated from mild steel the various designs of housing can accommodate the wide range of HEPA filters available, utilising the traditional EPDM gasket against flat sealing face filters.

The grille can be either a 2,3, or 4 way blow grille or an egg crate grille for reverse airflow applications, all with a removable core for access to the clamping system.

DOP insertion points and upstream pressure tapping points along with balancing dampers can be factory fitted as required.



STANDARD HEPA TERMINAL HOUSINGS

Casing			Diffuser		Style	Flow Rate m ³ /s		Clean PD (Pa)		Housing Only	HEPA Filter
H	W	D	H	W		Std	Max*	Std	Max*	Part No.	Part No.
591	591	370	597	597	T Grid Top Entry	0.14	0.27	125	250	1835102	1510810
591	591	520	597	597	T Grid Top Entry	0.14	0.38	90	250	1835103	1510811
591	591	430	597	597	T Grid Side Entry	0.14	0.27	125	250	1835104	1510810
591	591	580	597	597	T Grid Side Entry	0.14	0.38	90	250	1835105	1510811
NON STANDARD										1835999	1510999

* This is the maximum airflow through this HEPA filter. Filters are tested at 0.45m/s Face Velocity