Bays 2 & 3 Pattenden Lane, Marden, TN12 9QS. T: 01622 832777 F: 01622 832507

Terminal HEPA Filter Housings – Ceiling Mounted

Applications

Supply Air

Terminal Housings for HEPA filters are used to house and seal HEPA filters into ceilings as part of supply air systems offering the cleanest air.

Typical applications include cleanrooms, pharmaceutical production, laboratories and research units where clean HEPA filtered air is essential.

Extract Air

HEPA Terminal Housings can be used for extract air, preventing contaminated air from escaping a space. Whilst safe change systems should always be considered in these scenarios, a HEPA terminal housing can offer a suitable solution to the isolation of contamination, where filters can be changed within the operational space.

Common scenarios for this concept would be isolation rooms in healthcare, laboratories, or secure post rooms.

Description

HEPA Terminal Housings are designed to be suspended directly above false ceilings, allowing access to change the HEPA filter from within the room by removing the grille. Suitable ceilings are typically, but not limited to, Grid Style or Plasterboard where ductwork services run in the space above the ceiling. Terminal housings can also be mounted on their side to be used in a wall as required.

Spigots on the rear of the unit are available as either Top Entry circular spigots, or a Side Entry sleeved spigots to suit different duct layouts.

As standard Terminal Housings are supplied with 4 Way Blow Diffusers that are painted white. Variations of grille can be arranged upon request including swirl, perforated and egg crate. Securing the grille is often achieved via a removable core to the grille.

A smoke challenge insertion point is installed as standard 1”BSP, along with an upstream pressure tapping point, which can be used for upstream smoke challenge detection. Balancing Dampers and downstream pressure tapping points can be added on request.

HEPA Terminal Housings are fabricated from mild steel ensuring that the case maintains a high level of rigidity to support the HEPA clamping system essential to the correct functionality of the housing. Flanges are flat to suit both rounded or flat neoprene gaskets, and achieve a seal for the filter to the housing to the same efficiency as offered by the HEPA Filter.

Side Access with 4 Way Blow Diffuser

Top Entry with Egg Crate Grille

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Technical

Flanged Flat Face HEPA Seal (Gel Seals / Knife Edge Available on Request)
4 Way Blow Diffuser included (Swirl, Perforated, Egg Crate available on request)
Available to accept a range of HEPA Depths (69, 124mm Standard)
Top Spigot or Side Spigot Air Entry
Smoke Challenge / DOP insertion point
Upstream Pressure Tapping Point (Downstream available on request)
2mm Mild Steel (Fully Welded)
Painted Finish – RAL 9010 White
Hanging Points

STANDARD HEPA TERMINAL HOUSINGS

Casing			Diffuser		Style	Flow Rate m^3/s [1]		Clean PD (Pa) [1]		Housing Only	H14 HEPA Filter
H	W	D	H	W		Std	Max	Std	Max	Part No.	Part No.
346	346	370	352	352	Mini - Top Entry [2]	0.04	0.08	125	250	1835101	1510814
591	591	370	597	597	T Grid Top Entry [3]	0.14	0.27	125	250	1835102	1510810
591	591	520	597	597	T Grid Top Entry [3]	0.14	0.38	90	250	1835103	1510811
591	591	430	597	597	T Grid Side Entry [4]	0.14	0.27	125	250	1835104	1510810
591	591	580	597	597	T Grid Side Entry [4]	0.14	0.38	90	250	1835105	1510811
650	650	370	659	659	Std HEPA Top Entry [3]	0.16	0.33	125	250	1835106	1510812
650	650	430	659	659	Std HEPA Side Entry [5]	0.16	0.33	125	250	1835108	1510812
NON STANDARD ON REQUEST										1835999	1510999

1. H14 HEPA Air Filters are individually scan tested at a Face Velocity of 0.45m/s which is represented as the Std Flow Rate. Where in-situ leak testing is required this air speed should not be exceeded.
2. Top entry 150mm diameter spigot as standard.
3. Top entry 300mm diameter spigot as standard.
4. Side entry Sleeve Spigot 110H x 571Wmm as standard.
5. Side entry Sleeve Spigot 110H x 630Wmm as standard.