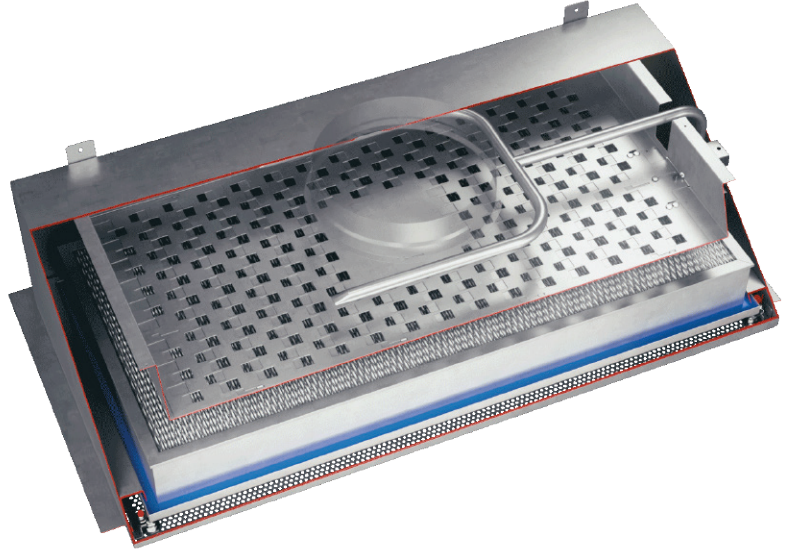


AstroHood® S-I

HEPA DUCTED CEILING MODULE

Benefits

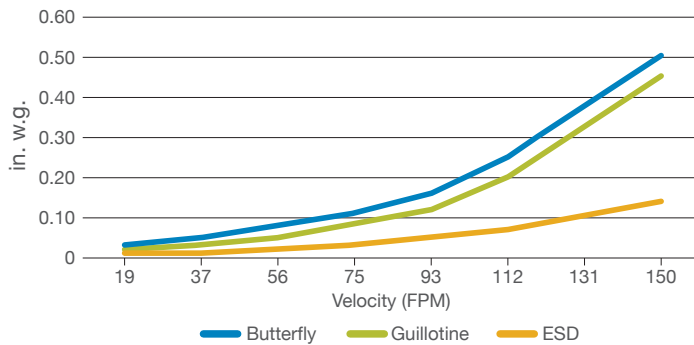
- Fully Welded, Leak-Free Construction for Life
- Lowest Operating Cost Unit Available
- Compliant with Industry Requirements
- Validated Room-Side Testing Capability
- Fully Room-Side Serviceable
- Guaranteed Reliable Operation



Maximize System Economy and System Integrity

The filter housing and damper system can contribute up to 250% more resistance than the filter itself. The Astrohood® S-I's ESD damper delivers the lowest possible operating costs and its zero pressure boundary penetration design achieves maximum protection and risk mitigation for critical environments by eliminating all potential leak paths.

AstroHood® S-I ESD Damper Airflow Resistance vs. Face Velocity



AstroHood® S-I with HEPA 99.99% @ 0.3µm ESD Damper Full Open

Air Flow (FPM)	Initial (clean) Resistance (in w.g.)		
	MEGAcel® II eFRM (2" Nom)	Glass 2" Pack	Glass 4" Pack
0	0	0	0
25	0.08	0.14	0.11
50	0.16	0.28	0.18
75	0.21	0.37	0.23
100	0.30	0.54	0.34
125	0.39	0.63	0.45
150	0.48	0.71	0.62

AstroHood® HEPA Ducted Ceiling Module

Basic Housing

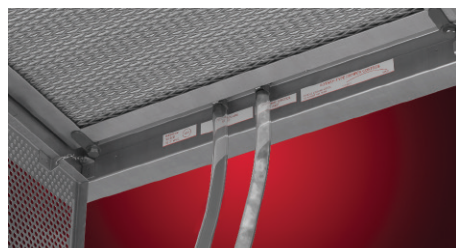
All AstroHood housings are 100% welded.

Materials of Construction

AstroHood S-I housings are constructed of either 16 ga. 304 SS or equivalent aluminum options.

Pressure Testing

All AstroHood housings are tested and certified to 3" pressure. Units are serialized and labeled with test criteria.



Injection and Sample Ports

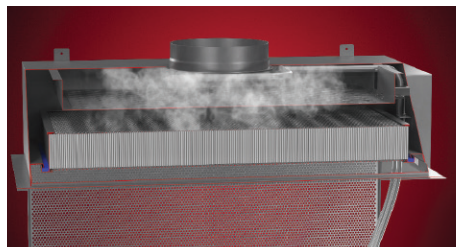
3/8" NPT plug for injection tube is standard. Chrome plated brass 3/8" quick disconnects are optional.

Hinged Grill Option

Standard grill is removable and made of 40% open area SS. Grill is mounted to the housing using 4 SS acorn nuts. Shown is optional SS removable hinged grill with 2 quarter-turn fasteners and safety chains.

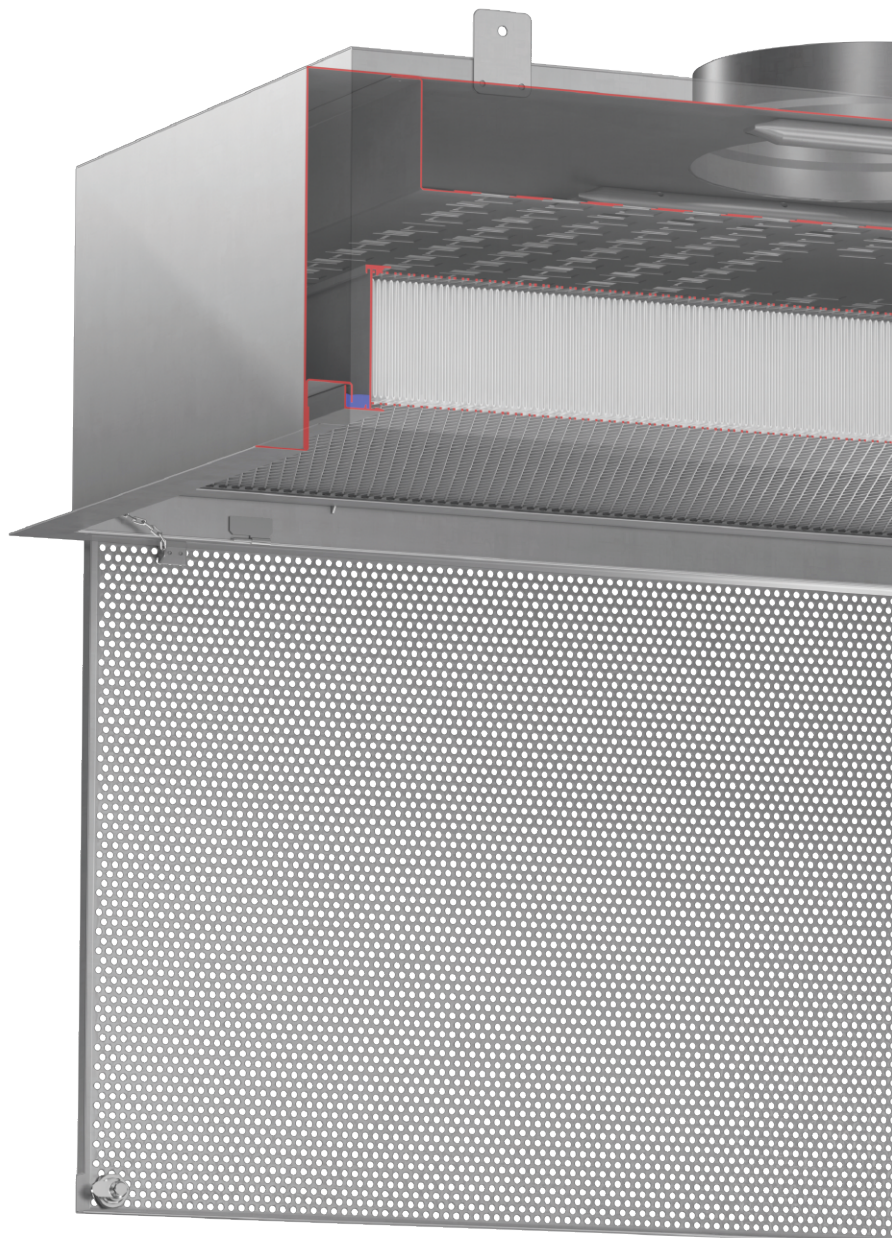
Filter Guides

Supplied as standard and constructed of same material as the hood.



Aerosol Dispersion System

Assembly is the same material as the hood and has been validated to deliver guaranteed aerosol uniformity.



Unit Basics				
Nominal Size	Actual Body Size*	Rated Airflow	Alum Weight	S/S Weight
2x2	22-11/16" x 22-11/16" x 10"	230 CFM	25 lbs.	30 lbs.
2x3	22-11/16" x 34-11/16" x 10"	390 CFM	35 lbs.	40 lbs.
2x4	22-11/16" x 46-11/16" x 10"	550 CFM	40 lbs.	45 lbs.

*Add additional 1" for 1/2" trim or 3" for 1-1/2" trim.

Proposal drawings and detailed specifications for all housing and filter options are available upon request from your local AAF office.



Hanging Tabs

Welded to the housing as standard

Insulation Options

Standard option is 2" foil backed insulation; Armaflex also available

Side Inlet Option

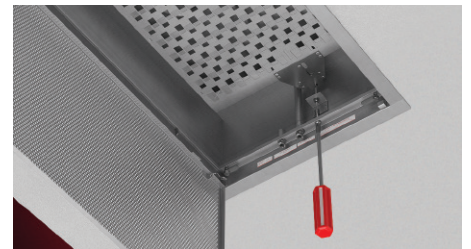
Unique configuration allows for side-fed supply air to accommodate minimal overhead space requirements

Various Height Options

Standard height is 10". Other heights are available subject to options and filter selection

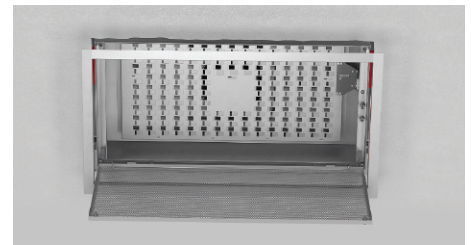
Inlet Collar Location

Unit can have its air inlet mounted on top, long side, or short side.



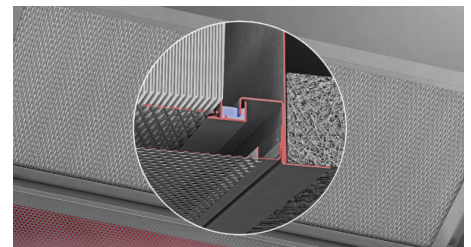
Sliding ESD Damper

Innovative sliding damper results in lowest initial static pressure across the assembly (0.10" w.g.). Damper yields velocity STD deviation within 5%.



Field-Installed Sealed Swirl Perimeter Trim

Field-installed trim is 18 gauge SS with rounded edges. Holes for attachment of field-installed options are predrilled and sealed. Available in 1/2" and 1-1/2" options for finishing of hard ceiling.



Seal Welded Knife-Edge and Roomside Flange

Permanent trim has rounded edges, 100% seal welded. Stainless steel trim is machine polished to a No. 3 finish.

