

AstroHood® S-III

DUCTED HEPA/ULPA TERMINAL MODULES

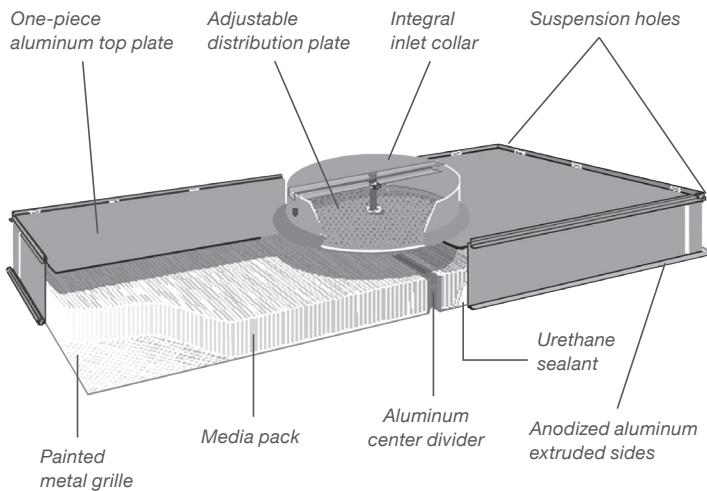
Benefits

- Disposable HEPA module for a variety of cleanroom applications
- Available with 2" and 4" media packs for maximum airflow
- Entire unit is factory sealed and individually scan tested to ensure leak-free performance
- HEPA, ULPA, and SULPA efficiencies available
- Low profile and lightweight for easy installation
- Clear anodized extruded aluminum body



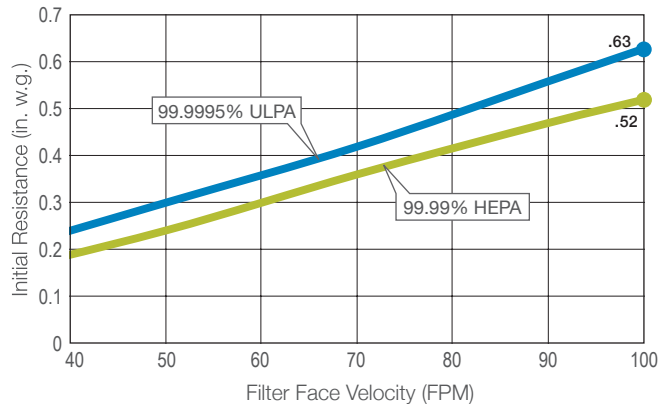
Performance and Features

Maximum ducted terminal filter performance in the least expensive configuration, the one-piece aluminum top with integral inlet collar is standard. The frame is clear anodized extruded aluminum and may have either a flat flange for gasket ceilings or an integral knife-edge for gel seal ceilings. Damper options include butterfly or telescoping disc. A center divider with port provides access for damper adjustment. A white painted expanded metal faceguard on the air leaving side provides protection for the media pack. Filters are UL 900 classified.

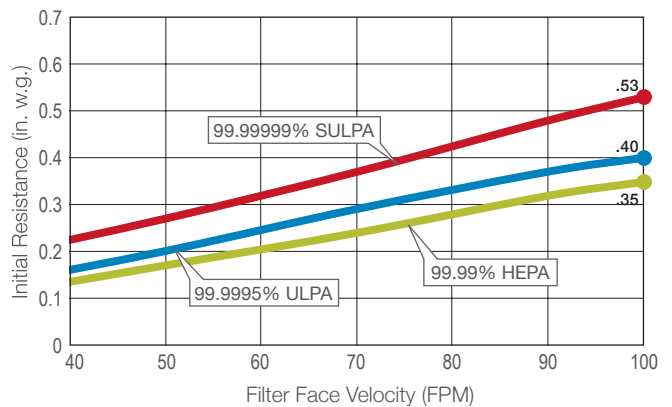


HEPA and ULPA Filter Media Initial Resistance vs. Filter Face Velocity

2" Filters



4" Filters



AstroHood® S-III

Model Number System

AS3G – 2 – 007 – B 24 10 – P 0

(1) (2) (3) (4) (5) (6) (7) (8)

(1) PRODUCT TYPE	(2) PACK HEIGHT	(3) FILTER EFFICIENCY	(4) DAMPER TYPE	(5) HOOD SIZE	(6) INLET SIZE	(7) GRILLE TYPE	(8) INSULATION
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(1) Product Type: AS3G - AstroHood S-III for Gasket Grid AS3K - AstroHood S-III with 3/4" Knife-Edge for Gel Grid (2) Pack Height: 2 - 2" Pack Height 4 - 4" Pack Height (3) Filter Efficiency: 007 - 99.99% on 0.3 µm 008 - 99.999% on 0.3 µm 009 - 99.9995% on 0.12 µm 012 - 99.99999% on 0.12 µm (4) Damper Type: B - Butterfly T - Telescoping Disc N - None (5) Hood Size: 22 - 2 x 2 (23-5/8" x 23-5/8") 23 - 2 x 3 (23-5/8" x 35-5/8") 24 - 2 x 4 (23-5/8" x 47-5/8")	Example: AS3G-2-007-B2410-P0	(6) Inlet Size: 08 - 8" Round 10 - 10" Round 12 - 12" Round 14 - 14" Round (7) Grille Type: P - Painted Expanded CRS S - 40% Perf. Stainless Steel (316L) A - 40% Anodized Aluminum (8) Insulation: 0 - None 1 - 2" Foil Back Glass (Top & Sides) 2 - 2" Foil Back Glass (Top Only)
	Applicable Duct Sizes	
Hood Size		Duct Size
22 - 2 x 2		08", 10"
23 - 2 x 3		10", 12"
24 - 2 x 4		10", 12", 14"

AstroHood® S-III Specifications

1.0 Construction

1.1 Housing shall:

- 1.1.1 Be constructed of 0.060" thick webbing extruded anodized aluminum for either gasket seal or 3/4" deep gel "tee-grid."
- 1.1.2 Have round duct connection fully formed into the hood top. Intermittently welded and caulked-in-place inlet collars are not acceptable.

1.2 The HEPA or ULPA filter shall:

- 1.2.1 Be constructed in accordance with the recommended construction requirements of IEST-RP-CC001.
- 1.2.2 Be constructed of a pleated single and continuous layer of fire-resistant borosilicate microfiberglass with equally spaced pleats. Nominal media pack depth shall be 2" or 4" deep.
- 1.2.3 Have the media pack permanently affixed to frame assembly by means of a solid, continuous, fire-retardant, phosphorous-free polyurethane sealant, forming a leak-free bond between the filter pack and filter frame.
- 1.2.4 Have a frame with perpendicularity specification of no more than 1% to ensure tight miter corners and a leak-free design. Corners must contain no cracks or uneven areas.
- 1.2.5 Include as standard an integral expanded CRS grille painted white that is potted in place with the filter media pack.

2.0 Performance and Testing

- 2.1 Each AstroHood® S-III Terminal Ducted Air Filter Module shall be individually factory tested and certified.
- 2.2 Each AstroHood® S-III Terminal Ducted Air Filter Module shall have a serial number allowing for full traceability. Each unit shall be individually serialized and traceable to the specified leak test procedure.
- 2.3 Each HEPA filter is supplied and tested under the guidance of IEST RP-CC-001.
- 2.4 Each Filter shall be tested for initial (clean) pressure drop at rated flow.
- 2.5 Each Filter shall be factory scanned in accordance with IEST-RP-CC034.
- 2.6 Filter shall be listed by Underwriters Laboratories as UL 900 standard and UL 586 as required.

3.0 Labeling and Reporting

- 3.1 Each filter shall have a unique labeling indicating filter size, lot number, unique serial number, model number, tested efficiency, pressure drop at volumetric test airflow, and UL compliance.
- 3.2 A test certificate shall be provided for each filter indicating filter-specific test data, including the lot and serial number, along with the pressure drop and efficiency.
- 3.3 Each AstroHood® S-III shall contain a label affixed to the unit with a stamped area ensuring pressure testing pass/fail criteria. Test reports should be provided upon request.



AAF has a policy of continuous product research and improvement. We reserve the right to change design and specifications without notice.