



*Innovative
Clean Air
Solutions*

MICROPLEAT™

**Mini-Pleat HEPA and ULPA Filters
For High Purity Applications**

- Gasket Seal
- Gel Seal
- Knife Edge
- High Capacity
- Disposable
Ceiling Modules



UL CERTIFICATE
A4915

MicroPleat™ Mini-Pleat HEPA and ULPA Filters

MicroPleat filters are available in the full range of cell side configurations to fit all types of housings and framing systems:

- Gasket Seal
- Disposable Ceiling Modules
- Gel Seal
- High Capacity
- Knife Edge

Select from three standard efficiencies:

- 99.99% on 0.3 microns
- 99.999% on 0.3 microns
- 99.9995% on 0.12 microns

All filters can be scan tested for leak detection in accordance with IEST- RP-CC-001.3.

Mini-Pleat Bead Separator Pack

All MicroPleat filters feature Airguard's mini-pleat media pack. Beads of adhesive are applied on 1" centers to maintain critical pleat spacing for minimum resistance over the entire range of air flow operation.

Extruded Aluminium Construction

All MicroPleat filters are made with anodized extruded aluminium cell sides.

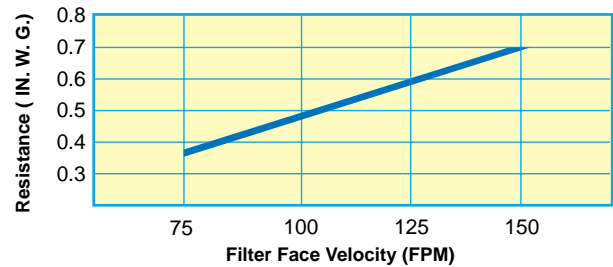
Individually Tested

All Airguard HEPA filters are individually tested to verify that each filter shipped meets the specified efficiency. The actual filter resistance and penetration shown on the label are your assurance that the filter has been tested before shipment.

The latest technology in microglass media production, combined with precisely controlled bead separator pleating result in the lowest resistance for each filter efficiency rating.



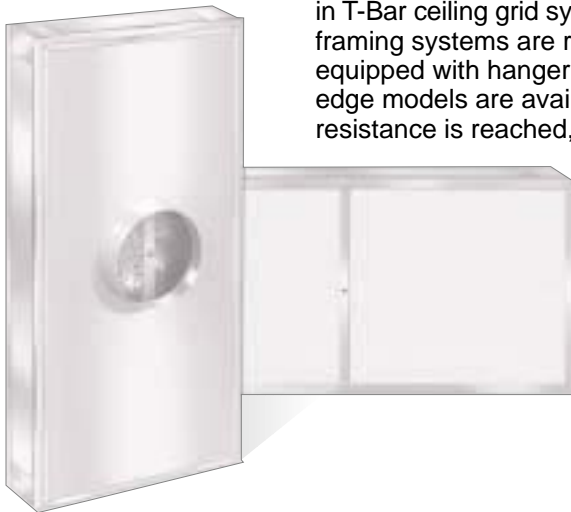
INITIAL RESISTANCE VS. FILTER FACE VELOCITY (99.99%)



Higher efficiency models operate at slightly higher resistance.

Disposable Ducted Ceiling Modules

MicroPleat disposable ceiling modules are used in clean room applications and laminar flow equipment requiring high purity air removing submicron particulate. The modules are installed in T-Bar ceiling grid systems with individually ducted air supply. No complicated, high integrity framing systems are required. The units are very light weight and easy to install. They are equipped with hanger supports on the top of the housing for suspended installations. Knife edge models are available for installation in gel seal grid systems. When the maximum filter resistance is reached, the entire unit is discarded and replaced.



Construction

The low profile design features cell sides only 5" deep. The top plate is a one-piece design with integral inlet collar (10" or 12" diameter). The collar is formed with a continuous bead to firmly attach the flexible inlet supply duct. A white coated expanded metal faceguard can also be supplied on the air leaving side.

Adjustable Diffuser/Damper

A perforated, adjustable plate mounted inside the housing diffuses the air to provide uniform distribution of air flow over the entire media pack. The plate also serves as a damper to adjust the rate of flow to properly balance the system. Adjustment is easily done from inside the room without disturbing the ducted inlet supply connection.

Test Port (Optional)

A port in the center post provides access to the upstream side of the media pack from inside the room. Test aerosol can be injected above the pack for on-site testing. Static pressure measurements can also be taken through the port.

Nominal Size (In.) (HxW)	Actual Size (In.) (HxWxD)
24 x 24	23-5/8 x 23-5/8 x 5
24 x 48	23-5/8 x 47-5/8 x 5

Undersized models are available for 2" T-bar ceiling grid systems.

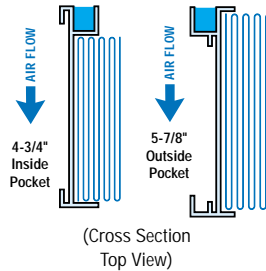
Filters for Gel Seal Installations

Gel Seal Filters

For use in framing systems equipped with a knife edge seal.

Gel seal style MicroPleat filters have a channel in the cell side containing a non-flowing, non-hardening urethane gel sealant. The knife edge on the framing system penetrates the gel to seal the filter and prevent leakage.

MicroPleat filters are available with 4-3/4" or 5-7/8" deep cell sides.

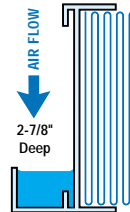


Reverse Gel Seal Filters

For use in replaceable filter, ducted ceiling modules.

Reverse gel seal filters are used in permanently installed ducted ceiling modules designed to accept a replaceable HEPA filter. MicroPleat filters are available for all major brands of ceiling modules.

Reverse gel seal MicroPleat filters have the gel filled channel located at the back of the upstream side of the filter. This position of the channel allows the filter to fit up into the housing to minimize overall depth of the unit and provide a flush, clean appearance. The knife edge on the housing penetrates the gel to seal the filter. Access to the filter is from the room side of the unit.

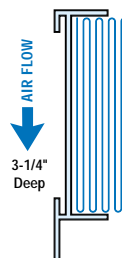


Nominal Size (In.) (HxW)	Actual Size (In.) (HxWxD)
24 x 24	21-5/8 x 19-7/8 x 2-7/8 21-1/8 x 21-1/8 x 2-7/8
24 x 48	21-5/8 x 43-7/8 x 2-7/8 21-1/8 x 45-1/8 x 2-7/8

Knife Edge Filters

For framing systems equipped with a gel-filled channel.

Knife edge MicroPleat filters have an extension on the cell sides designed to penetrate the channel in the framing system containing the gel sealant. MicroPleat filters are 3-1/4" deep including the knife edge extension on the cell sides.



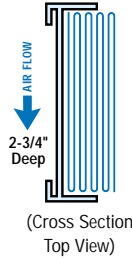
Filters for Gasket Seal Installations

Gasketed Filters

For use in systems (pressure plenum) requiring gasketed filters.

Gasket seal MicroPleat filters are available with 2-3/4" or 5-7/8" deep cell sides. They have a 3/4" wide x 1/4" thick closed cell neoprene gasket on one or both sides (optional) of the filter. The filter is secured into the holding device by a high integrity clamping mechanism to prevent leakage.

Gasket seal MicroPleat filters with wood cell sides are also available.



Micro-V 2000™ High Capacity HEPA Filters

99.97%, 99.99%, 99.999% on 0.3 microns
1.20" W.G. initial resistance at 500 FPM
Gel seal and gasket seal models

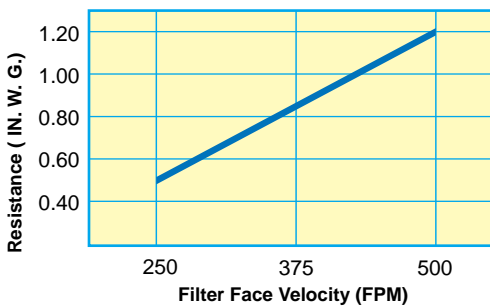
The Micro-V 2000 is designed to operate at 500 FPM with initial resistance of 1.20" W.G. This allows the HEPA filters to be installed in line with other filters in the air handling system without the need for costly transitions.

The filters are made with a series of mini-pleat bead separator media packs assembled in a V-bank configuration. 24" x 24" x 11-1/2" size Micro-V 2000 filters contain 300 square feet of media.

For systems operating at lower air flow velocity, Micro-V 2000 filters offer lower resistance and significantly longer life than standard HEPA filters or high capacity HEPA filters using corrugated aluminum separator style construction.



INITIAL RESISTANCE VS. FILTER FACE VELOCITY



99.999% efficiency models are rated 1.20" W.G. @400 FPM

Actual Filter Size (In.) (HxWxD)	Media Area (Sq. Ft.)
24 x 24 x 11-1/2	300
24 x 12 x 11-1/2	127



AIRGUARD

P.O. BOX 32578, LOUISVILLE, KENTUCKY 40232-2578
(502) 969-2304 FAX (502) 961-0930

Visit our Web Site - www.airguard.com
E-Mail Address - mailbag@airguard.com

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