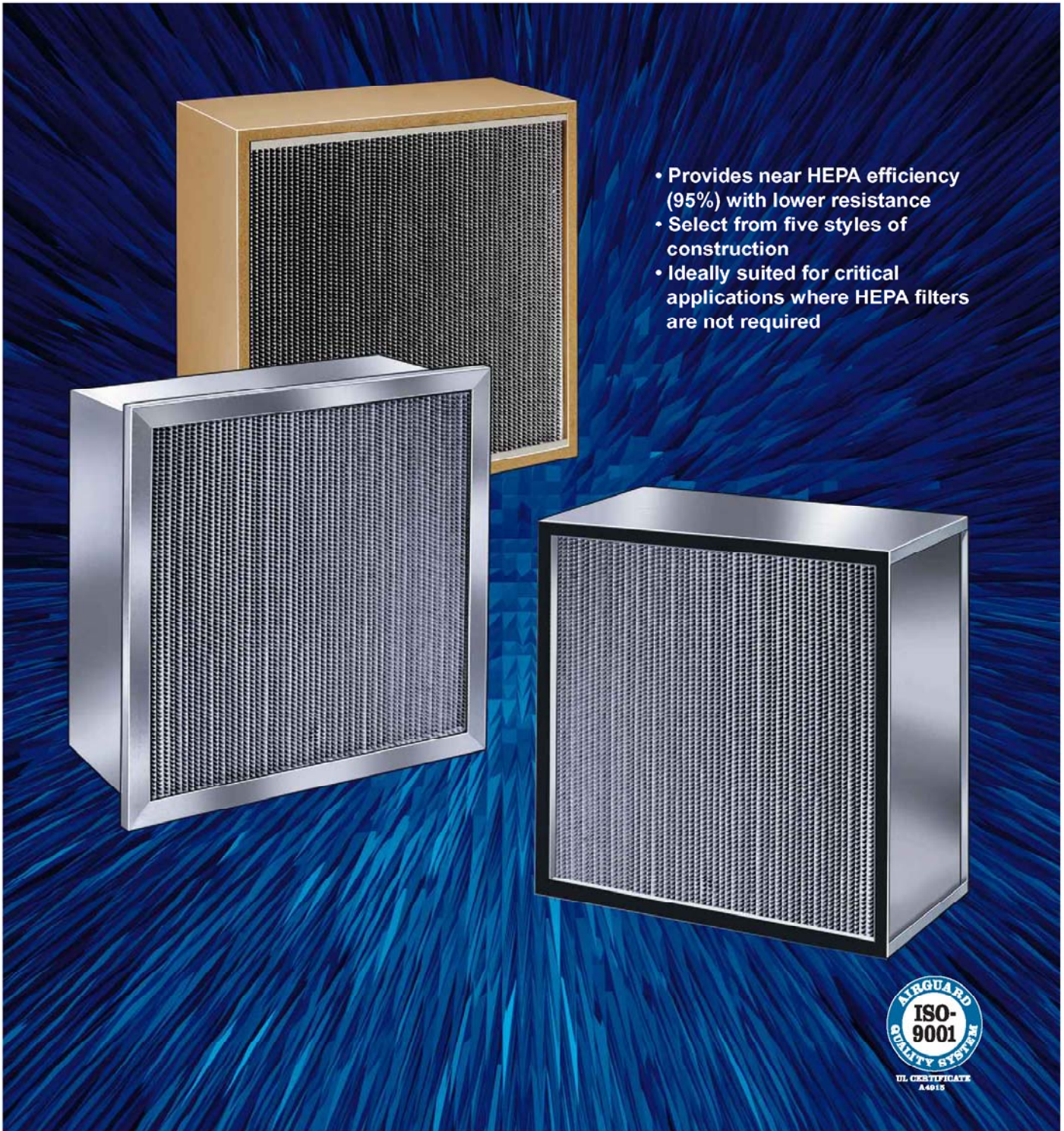




MICROGUARD® 95

*High Efficiency Filters
95% on .3 micron particles*

*Innovative
Clean Air
Solutions*



- Provides near HEPA efficiency (95%) with lower resistance
- Select from five styles of construction
- Ideally suited for critical applications where HEPA filters are not required



MICROGUARD® 95

Select from five styles of construction

Guaranteed 95% on .3 micron particles

APPLICATIONS

Microguard 95 filters are ideally suited for applications where very high efficiency on sub-micron particles (minimum 95% on .3 microns) is needed - above ASHRAE efficiencies, higher than MERV 16 - but less than HEPA (99.97% on .3 microns). (Microguard 95 filters are often referred to as "Hospital Grade filters.")

Product Type	Initial Resistance @ 500 FPM (In. W.G.)	Efficiency on .3 micron Particles
Microguard 95	1.0"	95 - 98%
Standard Capacity HEPA	2.0"	99.97 - 99.99%
High Capacity HEPA	1.2 - 1.4"	99.97 - 99.99%

Use Microguard 95 Where Very High Efficiency is Desired, but HEPA's are Not Necessary

Most HVAC systems are not designed to function efficiently with the resistance of HEPA filters. Microguard 95 filters operate at lower resistance than HEPA's while providing excellent efficiency. Compare the difference in efficiency and resistance between Microguard 95 and HEPA filters.

Typical applications include -

- Hospitals • Food Processing Plants
- Pharmaceutical Facilities • Precision Manufacturing
- Dust Collection Final Filters (recirculation)

HEPA Style Construction



Wood Cell Sides Box Construction

Select from particle board, fire retardant particle board, plywood



Metal Cell Sides Box Construction (C Style)

Select from 16 gauge galvanized steel (Series MC), 24 gauge galvanized steel (Series ML), 16 gauge 304 stainless steel, or aluminum



Metal Cell Sides Double Turned Flange Construction (Series DTF)

18 gauge galvanized steel

ASHRAE Style Construction

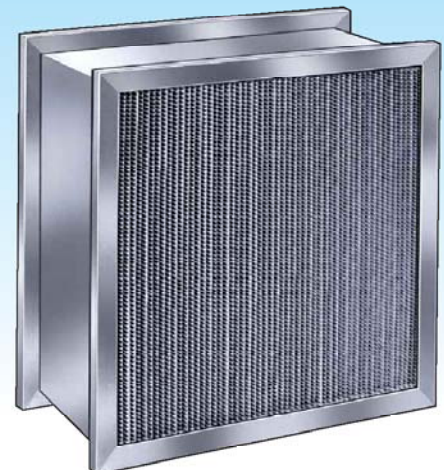


Single Header Construction (Series MH)

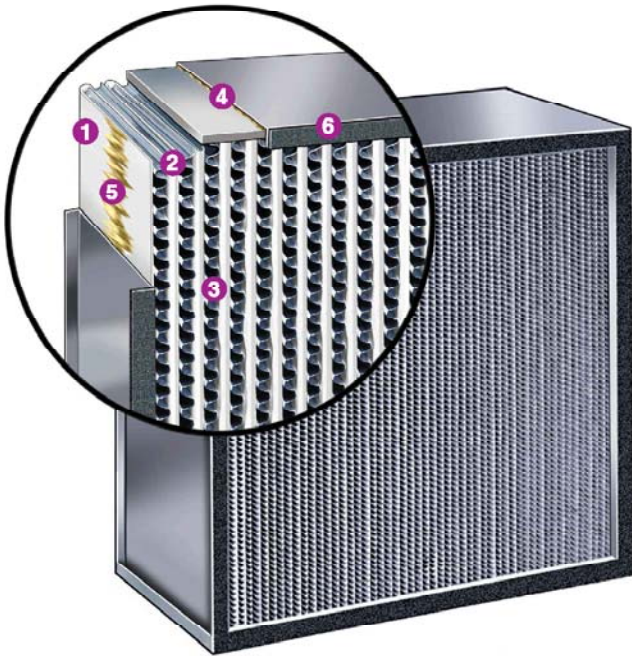
24 gauge galvanized steel

Double Header Construction (Series DH)

24 gauge galvanized steel

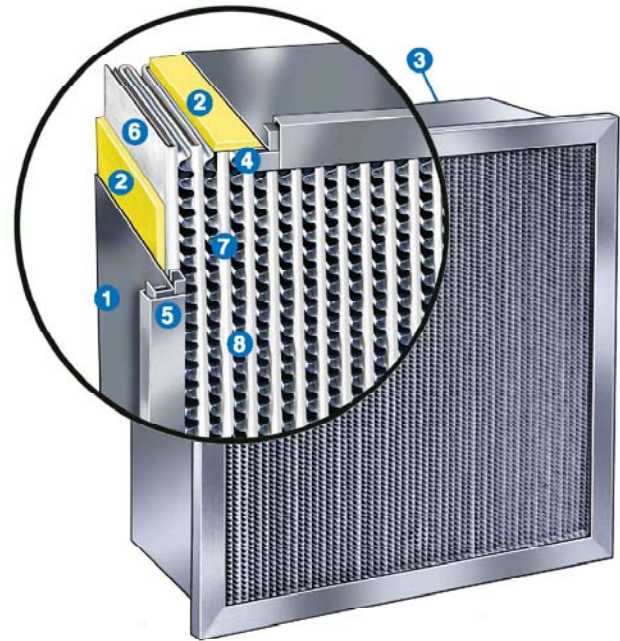


Made with the same materials, workmanship and QC requirements as HEPA filters



HEPA Style Construction

- 1 Media** - Microguard media is made from ultra fine fiber microglass paper. It is unaffected by humidity or intermittent exposure to water.
- 2 Pleat Design** - Microguard filters use a unique score fold design that increases effective media surface area and reduces the risk of media damage during handling and installation.
- 3 Separators** - The separators are made of corrugated aluminum with a hemmed (rolled) edge to prevent damage to the media and reduce risk of injury to maintenance personnel.
- 4 Bond** - The ends of the media pack are completely encapsulated in urethane sealant to prevent leakage.
- 5 Sealant** - The vertical sides of the media pack are sealed to the cell sides with adhesive to prevent leakage.
- 6 Gaskets** - The filters are supplied with a urethane gasket applied to the downstream side. (Upstream gaskets are available when specified.)



ASHRAE Style Construction

- 1 Cell Sides** - Constructed of 24 gauge steel. 350°F operating temperature limit.
- 2 Media Pack Sealant** - The media pack is sealed around the entire perimeter with a layer of high loft microglass media to prevent leakage and cushion the pack against damage during shipping and handling.
- 3 Faceguard** - Air Leaving Side (not shown). An expanded metal screen is installed on the downstream side to reinforce the media pack.
- 4 Spacer** - A U-shaped spacer is inserted inside the header to firmly seat the media pack against the cell sides. Prevents movement of the media pack and adds rigidity.
- 5 Snap Lock Assembly** - The filters are assembled with a Snap Lock design to mechanically fasten the cell sides to the header (no rivets or screws) providing rigid construction and preventing leakage.
- 6 Media** - Microguard media is made from ultra fine fiber microglass paper. It is unaffected by humidity or intermittent exposure to water.
- 7 Pleat Design** - Microguard filters use a unique score fold design that increases effective media surface area and reduces the risk of media damage during handling and installation.
- 8 Separators** - The separators are made of corrugated aluminum with a hemmed (rolled) edge to prevent damage to the media and reduce risk of injury to maintenance personnel.

Microguard 95 Product Information

Actual Size (HxWxD) (Inches)	Air Flow Capacity (CFM) 5-7/8"@250 FPM 11-1/2"@500 FPM	Initial Resistance (In. W.G.)	Recommended Final Resistance (In. W.G.)
12 x 12 x 5-7/8	250	.80"	2.0"
12 x 24 x 5-7/8	500	.80"	2.0"
19-3/8 x 23-3/8 x 5-7/8	785	.80"	2.0"
20 x 24 x 5-7/8	835	.80"	2.0"
23-3/8 x 11-3/8 x 5-7/8	460	.80"	2.0"
23-3/8 x 19-3/8 x 5-7/8	785	.80"	2.0"
23-3/8 x 23-3/8 x 5-7/8	950	.80"	2.0"
24 x 12 x 5-7/8	500	.80"	2.0"
24 x 20 x 5-7/8	835	.80"	2.0"
24 x 24 x 5-7/8	1000	.80"	2.0"
24 x 30 x 5-7/8	1200	.80"	2.0"
24 x 36 x 5-7/8	1500	.80"	2.0"
24 x 48 x 5-7/8	2000	.80"	2.0"
<hr/>			
12 x 12 x 11-1/2	500	1.0"	2.0"
12 x 24 x 11-1/2	1000	1.0"	2.0"
19-3/8 x 23-3/8 x 11-1/2	1575	1.0"	2.0"
20 x 24 x 11-1/2	1670	1.0"	2.0"
23-3/8 x 11-3/8 x 11-1/2	925	1.0"	2.0"
23-3/8 x 23-3/8 x 11-1/2	1900	1.0"	2.0"
24 x 12 x 11-1/2	1000	1.0"	2.0"
24 x 20 x 11-1/2	1670	1.0"	2.0"
24 x 24 x 11-1/2	2000	1.0"	2.0"
24 x 30 x 11-1/2	2500	1.0"	2.0"

1. All dimensions shown are actual filter sizes, (not including gaskets).
2. All filters are listed with the height (H) dimension shown first. It is important to install the filters with the pleats in the vertical position.

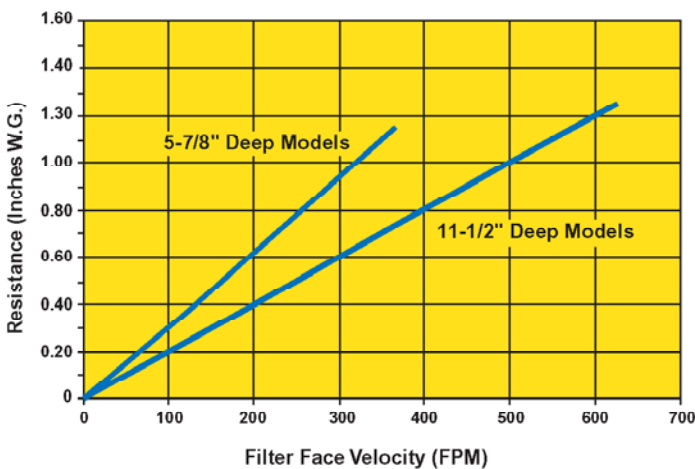
Underwriters Laboratories, Inc. Classification

Metal Construction: Microguard 95 filters made with metal cell sides (HEPA or ASHRAE style) are classified U.L. Class 1 per U.L. Standard 900.
Wood Construction: Microguard 95 filters made with wood cell sides are classified U.L. Class 2 per U.L. Standard 900.

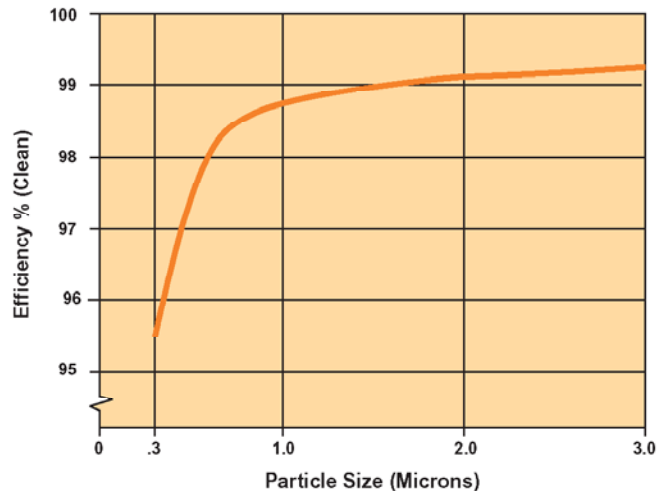
Operating Temperature Limits

HEPA Style Construction: 180°F (82°C)
ASHRAE Style Construction:
 Metal Cell Sides: 350°F (177°C)
 Wood Cell Sides: 200°F (93°C)

Initial Resistance vs. Filter Face Velocity



Efficiency by Particle Size



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