

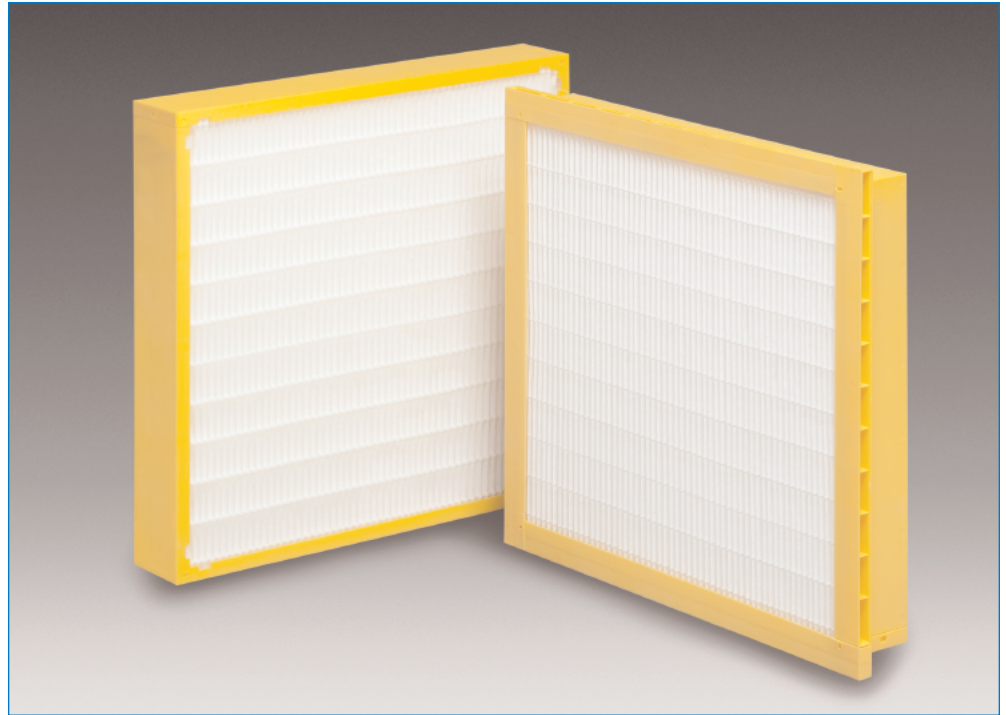


**FILTRATION GROUP®**

## GEOPLEAT®



- *Advanced pleat design for even dust loading and maximum service life*
- *High impact plastic frame for harsh environments*
- *Very low resistance to air flow results in lower energy costs*
- *Underwriters Laboratories classified to UL 900*
- *Robust filter media resists tearing or damage*
- *Lightweight and compact design saves shipping and storage space*
- *Completely incinerable*
- *Sustainable component for a LEED Green Building initiative*
- *Exceeds LEED MERV 13 efficiency requirement*



### DESCRIPTION

The new GeoPleat's advanced pleating technology increases media area per filter, reducing resistance to air flow and maximizing service life. The GeoPleat is designed to perform in nearly any HVAC installation and will not warp or collapse over time.

The GeoPleat frame is formed with high impact plastic to precise dimensions for a secure fit in either housing or holding frames. The frame is impervious to moisture, rigid, and exceptionally lightweight for safe and easy handling and installation.

Pleats are thermoformed at the tips to maintain integrity. Uniformed beads of foamed hot-melt separate the pleats to the most efficient and exacting tolerances to lower air drag across the filter. The media pack is adhesively bonded on all four sides of the filter frame, eliminating the possibility of air by-pass around the filter media.

### BENEFITS

#### Low Air Flow Resistance

GeoPleat's improved media and pack design combine for the lowest pressure drop

available in a compact rigid box filter. The lower pressure drop leads to considerable energy savings in variable drive HVAC systems.

#### Longer Filter Life

The New GeoPleat now has 30% more media per filter, lowering media velocity and expanding the dust holding capacity. Increased media and higher DHC extend and maximize the life of the filter. Longer filter life reduces labor and disposal footprint of used filters.

#### Lightweight

The GeoPleat is extremely light in weight allowing for easier and less expensive transportation, handling, safe installation and removal. GeoPleat weighs up to 75% less than competitive 12" filters. It is specifically recommended for applications with space constraints, roof-top air handling units, or anywhere a safer filter installation is desired.

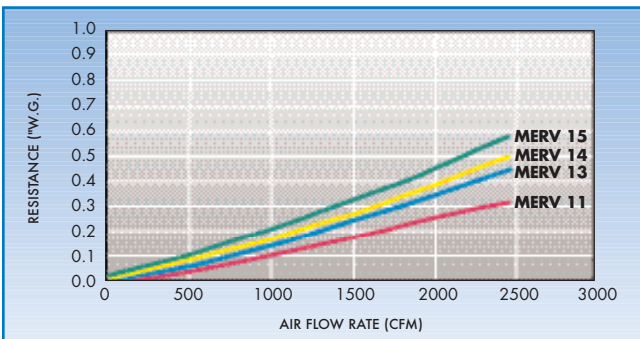
#### Robust Media

The media is extremely durable, designed to resist damage from shipping, handling, and installation. The media is resistant to moisture and microbial growth.

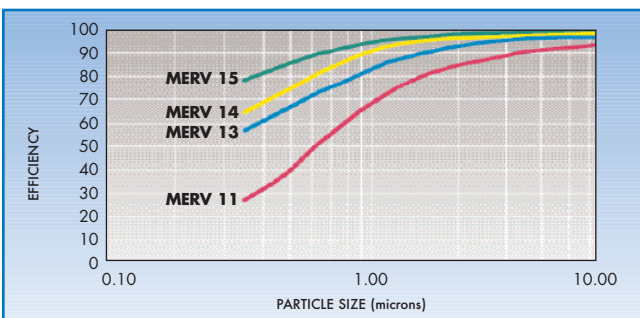
**DIMENSIONS**

SINGLE HEADER				BOX STYLE				SIZE
PART NO. MERV 11	PART NO. MERV 13	PART NO. MERV 14	PART NO. MERV 15	PART NO. MERV 11	PART NO. MERV 13	PART NO. MERV 14	PART NO. MERV 15	
21605	21613	21621	728542	21629	21637	21645	718542	24 x 12 x 4
21609	21617	21625	728506	21633	21641	21649	718506	20 x 16 x 4
21606	21614	21622	728500	21630	21638	21646	718500	20 x 20 x 4
21611	21619	21627	728548	21635	21643	21651	718548	24 x 18 x 4
21607	21615	21623	728540	21631	21639	21647	718540	24 x 20 x 4
21608	21616	21624	728544	21632	21640	21648	718544	24 x 24 x 4
21610	21618	21626	728556	21634	21642	21650	718556	25 x 16 x 4
21612	21620	21628	728550	21636	21644	21652	718550	25 x 20 x 4

**INITIAL RESISTANCE (24 x 24 x 4 – BOX STYLE)**

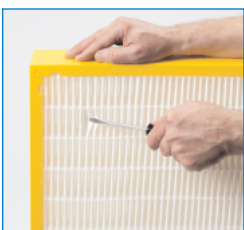


**EFFICIENCY PER ASHRAE 52.2 (24 x 24 x 4 – BOX STYLE)**



**PERFORMANCE DATA (24 x 24 x 4 – BOX STYLE)**

	MERV 11			MERV 13			MERV 14			MERV 15		
Air Flow (cfm)	1500	<b>2000</b>	2500	1500	<b>2000</b>	2500	1500	<b>2000</b>	2500	1500	<b>2000</b>	2500
Initial Pressure Drop ("w.g.)	0.15	<b>0.24</b>	0.36	0.23	<b>0.33</b>	0.44	0.27	<b>0.39</b>	0.52	0.30	<b>0.43</b>	0.57



Durable media pack resists damage



Shown with 2" clip designed to hold an optional pre-filter



Available in both box style and single header design

**Distributed by:**

**GEOPLEAT ENGINEERING SPECIFICATIONS**

**1.0 General**

- Filters shall be Aerostar® GeoPleat mini-pleat air filters as manufactured by Filtration Group.
- Underwriters Laboratories classified to UL 900 and ULC-S11077.
- Filters shall be available in a nominal depth of 4".
- Filters are manufactured by an ISO 9001 registered company.

**2.0 Filter Material of Construction**

- Media shall be 100% synthetic gradient dual density media that does not support microbial growth.
- Frame shall be constructed with high-impact plastic and impervious to moisture and high humidity.
- Media pack shall be adhered to plastic frame on all sides to prevent air bypass.
- Filter shall have a hot melt bead separator to maintain pleat pack stability and ensure consistent pleat spacing for optimum air flow.

**3.0 Filter Performance**

- Filters shall be available in MERV 11 for low efficiency, MERV 13 and MERV 14 for medium efficiency, and MERV 15 for high efficiency when tested in accordance with ASHRAE 52.2:2007 Test Standard.
- Initial resistance of filters shall not exceed the following:
 

Flow Rate (fpm)	Initial Resistance			
	MERV 11	MERV 13	MERV 14	MERV 15
500	0.24" w.g.	0.33" w.g.	0.37" w.g.	0.43" w.g.
- Filters shall be rated to withstand a continuous operating temperature of up to 150°F.
- Filters shall have a max recommended final resistance of 1.5" w.g.
- Changing filters at a lower resistance may save operating costs.



**FILTRATION GROUP®**

Phone: 877-FGI-TEAM (344-8326) ■ Fax: 800-518-1162  
 www.filtrationgroup.com ■ e-mail: aerostar@filtrationgroup.com

© FGI 08/12

**WHEN CLEAN AIR MATTERS**  
 ISO 9000 Registered