

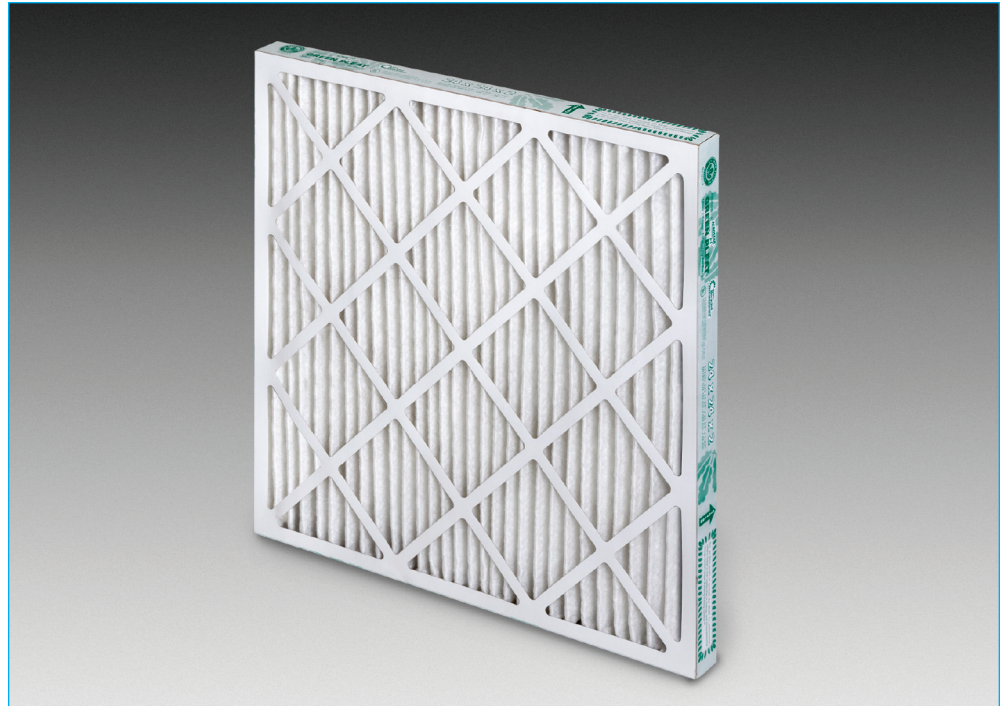
**DAFCO FILTRATION GROUP®**



- MERV 13 efficiency to meet LEED Green Building Rating System Criteria
- Green Pleat provides points toward LEED certification
- Eliminates need to retrofit to achieve high MERV efficiency
- Low resistance to air flow reduces energy costs
- Sustainable component for a LEED/Green Building initiative
- Exceeds LEED/Green requirement of MERV 13



## MERV 13 GREEN PLEAT



### DESCRIPTION

The AeroStar® MERV 13 Green Pleat is specifically designed to meet the air filtration efficiency criteria required to gain points toward certification in the Leadership in Energy and Environmental Design (LEED) Green Building rating system. Most air filters reaching MERV 13 high efficiency levels require greater depth and retrofitting expense to be installed. The Green Pleat delivers high efficiency in a compact 2" depth design allowing immediate installation with absolutely no modification to existing equipment. Simply replace the existing lower efficiency pleat or disposable air filter with the Green Pleat upgrade the system to the LEED required MERV 13 level.

The AeroStar MERV 13 Green Pleat is constructed with an advanced synthetic air media that utilizes both charged fibers and traditional mechanical filtration principles. The charged fibers allow the Green Pleat to achieve MERV 13 levels upon installation and immediately grab and trap airborne contaminants. The resulting dust cake then enhances the

mechanical principles of the filter allowing for high levels of filtration during the entire life-cycle.

### BENEFITS

- Quick and easy installation requires no retrofitting to existing equipment.
- Compact design allows minimum restriction to air flow while providing exceptionally high MERV 13 efficiency.
- Quick and efficient way to achieve points toward LEED certification.
- Keep coils, diffusers, ductwork much cleaner while removing pollens and allergens from the occupied space.

### APPLICATIONS

The MERV 13 Green Pleat was designed to meet air filtration efficiency standards set forth in the LEED Programs for Existing Buildings and New Construction, as well as an effective IAQ tool for LEED in Schools.

The MERV 13 Green Pleat can also be used in industrial, commercial, hospital, and universities, or wherever higher efficiency air filtration is desired to remove pollens and allergens.

# MERV 13 GREEN PLEAT



## DIMENSIONS AND PERFORMANCE DATA

PART NUMBER	NOMINAL SIZE	CFM CAPACITIES	
		MEDIUM	HIGH
21567	10 x 20 x 1	525	700
21570	12 x 12 x 1	375	500
21571	12 x 20 x 1	625	825
21572	12 x 24 x 1	750	1000
21574	14 x 20 x 1	725	975
21576	14 x 25 x 1	900	1200
21577	15 x 20 x 1	775	1050
21579	16 x 16 x 1	650	875
21580	16 x 20 x 1	825	1100
21581	16 x 24 x 1	1000	1325
21582	16 x 25 x 1	1050	1400
21584	18 x 20 x 1	925	1250
21586	18 x 24 x 1	1125	1500
21587	18 x 25 x 1	1175	1550
21588	20 x 20 x 1	1050	1400
21589	20 x 24 x 1	1250	1650
21590	20 x 25 x 1	1300	1750
21591	20 x 30 x 1	1530	2040
21593	24 x 24 x 1	1500	2000
21594	25 x 25 x 1	1625	2150
21515	10 x 20 x 2	525	700
21516	12 x 24 x 2	750	1000
21517	14 x 20 x 2	725	975
21518	14 x 25 x 2	900	1200
21519	16 x 20 x 2	825	1100
21520	16 x 24 x 2	1000	1325
21521	16 x 25 x 2	1050	1400
21522	18 x 24 x 2	1125	1500
21523	18 x 25 x 2	1175	1500
21524	20 x 20 x 2	1050	1400
21525	20 x 24 x 2	1250	1650
21526	20 x 25 x 2	1300	1700
21527	24 x 24 x 2	1600	2000
21528	25 x 25 x 2	1625	2150
21541	12 x 24 x 4	1000	1250
21542	16 x 20 x 4	1100	1400
21543	16 x 25 x 4	1400	1750
21544	18 x 24 x 4	1500	1875
21545	20 x 20 x 4	1400	1750
21546	20 x 24 x 4	1650	2100
21547	20 x 25 x 4	1750	2200
21548	24 x 24 x 4	2000	2500

## DIMENSIONS AND PERFORMANCE DATA

SIZE	375 FPM	500 FPM	MERV
24 x 24 x 2	0.24	0.38	13

SIZE	500 FPM	625 FPM	MERV
24 x 24 x 4	0.23	0.34	13

## MERV 13 GREEN PLEAT ENGINEERING SPECIFICATIONS

### 1.0 General

- 1.1 Filters shall be Aerostar MERV 13 Green Pleat extended surface pleated air filters as manufactured by Filtration Group, Inc.
- 1.2 Filters shall be available in depths of 1", 2", and 4".
- 1.3 Filters shall be UL Classified.
- 1.4 Manufacturer shall provide documentation from an external certification body that the manufacturing location is ISO 9000 Registered.

### 2.0 Filter Material of Construction

- 2.1 Media shall be 100% synthetic media that does not support microbial growth.
- 2.2 Frame shall be a heavy-duty, high strength, moisture resistant paperboard with cross member design that increases filter rigidity and prevents breaching. Frame shall be made with 100% recycled paperboard with an average of 35% post-consumer content. Frame shall be recyclable.
- 2.3 Filters shall have a 100% post-consumer recycled expanded metal support grid bonded to the air-exiting side of the filter to maintain pleat uniformity and prevent fluttering. Metal support grid shall be recyclable.

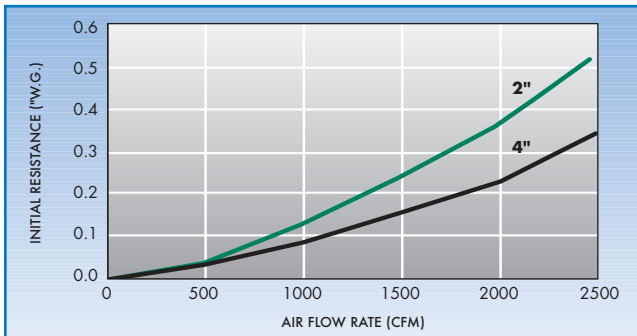
### 3.0 Filter Performance

- 3.1 Filters shall be MERV 13 in all filter depths when fully tested in accordance with ASHRAE 52.2-2007 Test Standard.
- 3.2 Filter shall have a low initial pressure drop that shall not exceed 0.25" w.g. in 1" at 375 fpm air flow; 0.36" w.g. in 2" at 500 fpm air flow; and 0.23" in 4" at 500 fpm air flow.
- 3.3 Filter shall be rated to withstand a continuous operating temperature up to 150°F.
- 3.4 Filters shall have a recommended final resistance of 1.0" w.g.

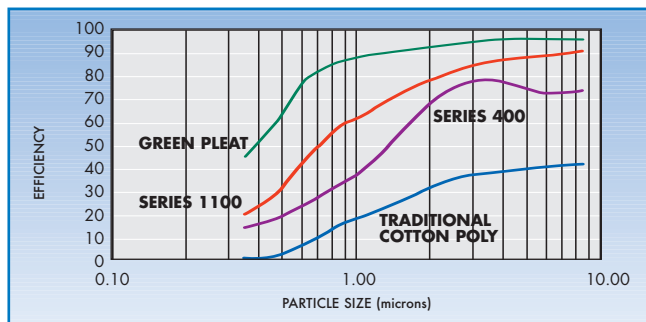
## APPLICATION PARAMETERS

Temperature Resistance: Continuous – 150° F  
 Flammability: UL Classified  
 Media: Synthetic  
 Frame: 100% Recycled Paperboard  
 Recommended Final Resistance: 1.0" w.g.

## INITIAL RESISTANCE



## EFFICIENCY PER ASHRAE 52.2



Green Pleat is LEED compliant for efficiency and utilizes a 100% recycled paperboard frame.



MERV 13 rated in a compact design that installs into existing units with no retrofitting required.



Industrial grade frame and advanced synthetic media assure filter performance during the entire lifecycle.

**MERV** (Minimum Efficiency Reporting Value) A numerical system for comparing filters based on minimum particle size efficiency. A MERV of 1 is least efficient; a 16 is the most efficient. (See ASHRAE 52.2)

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*WHEN CLEAN AIR MATTERS*