

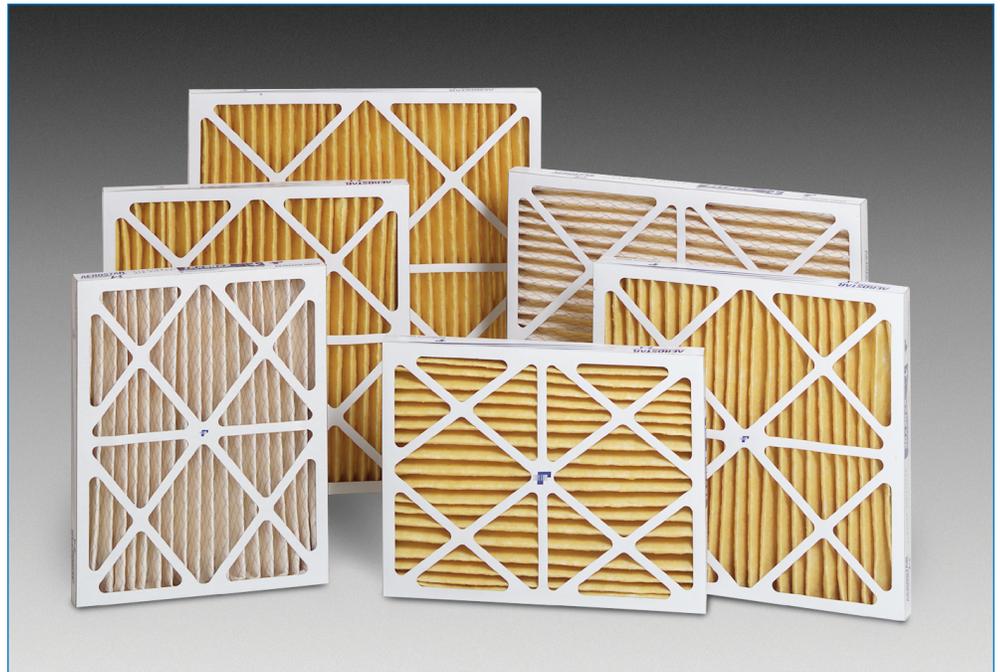


**DAFCO FILTRATION GROUP®**

## SERIES 1100 PLEATED AIR FILTER



- **MERV 11** (per ASHRAE Standard 52.2-2007)
- Initial efficiency is over 2 times greater than traditional cotton poly
- Initial efficiency greater than 74% on 1-3 micron particles
- Moisture resistant 100% synthetic media
- Long service life means lower operating costs
- Low initial pressure drop
- A wide range of sizes in 1", 2" and 4" thicknesses



### DESCRIPTION

The Series 1100 pleated filters incorporate a 100% synthetic media with an ASHRAE 52.2 MERV 11 (Minimum Efficiency Reporting Value). The 1" and 2" filters handle velocities up to 500 FPM – the 4" filters up to 625 FPM.

The media is laminated to an expanded metal support grid on the air-exiting side, preventing fluttering, and maintaining uniformity of the pleats. The filter pack is enclosed in a heavy-duty, moisture resistant, die-cut frame that will not warp, crack or distort under normal operating conditions.

Diagonal front and back media retainers are an integral part of the filter frame. The media pack is bonded to every part of the frame, preventing any possibility of air by-pass. Integral pleat separators on the 4" filters provide additional pleat stabilization for the most demanding applications.

### BENEFITS

It is possible for a flat filter to face load, thus restricting air flow and creating unnecessary strain on equipment.

The Series 1100 filters accumulate heavier, more restrictive particles at the bottom of the pleats, leaving the sides open longer for effective filtration. The Series 1100 filter is engineered to provide maximum efficiency. In general, deeper pleats result in longer filter life and more time between changeouts.

- Rigid construction with consistent media extends the service life
- Well-built, efficient and easy-to-handle medium efficiency filters
- Achieves MERV 11 (per ASHRAE Standard 52.2-2007)
- Low initial pressure drop
- Consistent efficiency

### APPLICATIONS

These filters can be used without modification in side-access filter housing or built-up filter bank. They offer better efficiency than conventional permanent or disposable flat filters. The Series 1100 filters, when used as pre-filters, substantially extend the life of more expensive high efficiency filters. They are the perfect filters for residential, commercial and industrial use.

# SERIES 1100 PLEATED AIR FILTER



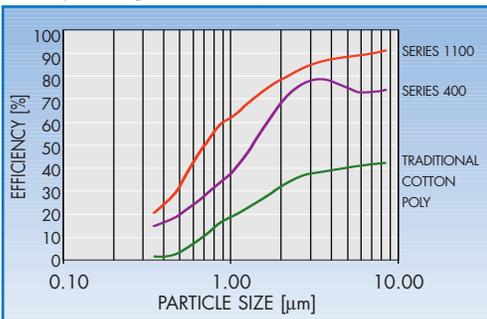
## DIMENSIONS AND PERFORMANCE DATA

PART NO.	NOMINAL SIZE**	CAPACITY (cfm)	
		MEDIUM	HIGH
19619	10 x 20 x 1	525	700
19620	10 x 24 x 1	625	825
19621	10 x 25 x 1	650	850
19622	12 x 12 x 1	375	500
19624	12 x 20 x 1	625	825
19625	12 x 24 x 1	750	1000
19626	12 x 25 x 1	775	1025
19627	14 x 20 x 1	725	975
19628	14 x 24 x 1	875	1150
19629	14 x 25 x 1	900	1200
19630	15 x 20 x 1	775	1050
19631	15 x 25 x 1	975	1300
19632	16 x 16 x 1	650	875
19633	16 x 20 x 1	825	1100
19634	16 x 24 x 1	1000	1325
19635	16 x 25 x 1	1050	1400
19636	18 x 18 x 1	850	1125
19637	18 x 20 x 1	925	1250
19639	18 x 24 x 1	1125	1500
19640	18 x 25 x 1	1175	1550
19641	20 x 20 x 1	1050	1400
19642	20 x 24 x 1	1250	1650
19643	20 x 25 x 1	1300	1750
19645	24 x 24 x 1	1500	2000
19646	25 x 25 x 1	1625	2150
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19648	10 x 20 x 2	525	700
19649	12 x 20 x 2	625	825
19650	12 x 24 x 2	750	1000
19651	14 x 20 x 2	725	975
19652	14 x 25 x 2	900	1200
19653	15 x 20 x 2	775	1025
19654	16 x 16 x 2	650	875
19655	16 x 20 x 2	825	1100
19656	16 x 24 x 2	1000	1325
19657	16 x 25 x 2	1050	1400
19659	18 x 24 x 2	1125	1500
19660	18 x 25 x 2	1175	1550
19661	20 x 20 x 2	1050	1400
19662	20 x 24 x 2	1250	1650
19663	20 x 25 x 2	1300	1750
19664	24 x 24 x 2	1500	2000
19665	25 x 25 x 2	1625	2150
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19666	12 x 24 x 4	1000	1250
19667	16 x 20 x 4	1100	1400
19668	16 x 25 x 4	1400	1750
19669	18 x 24 x 4	1500	1875
19670	20 x 20 x 4	1400	1750
19671	20 x 24 x 4	1650	2100
19672	20 x 25 x 4	1750	2200
19673	24 x 24 x 4	2000	2500
19674	25 x 29 x 4	2525	3150

\*\*Special sizes available upon request

## SERIES 1100 PLEATED FILTER

(Efficiency according to ASHRAE 52.2)

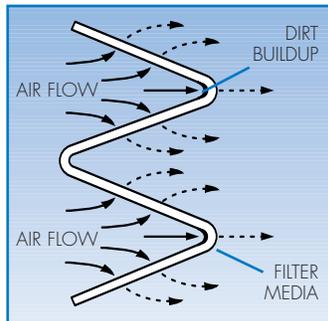


## FEET PER MINUTE (FPM)

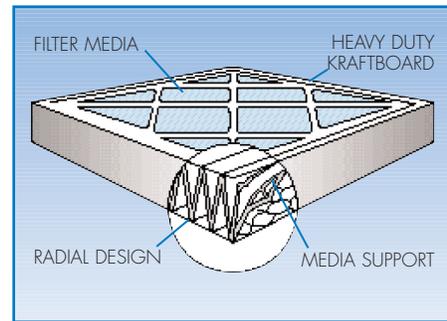
FILTER DEPTH	INITIAL MEDIUM VELOCITY	INITIAL RESISTANCE (MEDIUM *w.g.)	HIGH VELOCITY	FINAL RESISTANCE (HIGH *w.g.)	RESISTANCE* (ALL FILTERS)
1"	375	0.33	500	0.48	1.0
2"	375	0.21	500	0.34	1.0
4"	500	0.22	625	0.32	1.0

\*Recommended final resistance. System may dictate a lower change-out point. (Filters tested to 1.5")

## PRINCIPLE OF FILTRATION



## DESIGN AND CONSTRUCTION



## SERIES 1100 ENGINEERING SPECIFICATIONS

### 1.0 General

- 1.1 Filters shall be Aerostar Series 1100 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 11 in all filter depths when fully tested in accordance with ASHRAE 52.2 - 2007 Test Standard.
- 3.2 Initial resistance of filters shall not exceed 0.30" w.g. in 1" at 375 fpm air flow; 0.34" w.g. in 2" at 500 fpm airflow; and 0.22" 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.

### 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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