

# DAFCO FILTRATION GROUP®

## FP MINI-PLEAT FILTER



- Longer filter life with lower replacement and maintenance costs
- Eliminates downstream dust and fiber shedding
- Reduced resistance to air flow promotes significant energy savings
- Dual direction media for front or reverse mount installations
- No aluminum spacers to damage the filter media



### DESCRIPTION

**T**he Aerostar FP Series' mini-pleat V-Bank™ system was developed in Europe for demanding fine dust applications in high energy cost environments. Today, the Aerostar FP Series fine dust filter is recognized worldwide as the most proven and reliable high technology air filter on the market. Our mini-pleat V-Bank™ technology has proven to be cost effective and highly efficient in removing a wide variety of contaminants from the air stream in industrial, medical, office and original equipment applications.

### BENEFITS

The Aerostar FP's unique mini-pleat V-Bank™ design incorporates 193 square feet of high efficiency media within a 24" x 24" x 12" (nominal) rigid frame, significantly more than most other high efficiency filters on the market.

The extended media surface creates a very low resistance to air flow.

The low pressure drop results in lower energy costs and a longer filter life. The Aerostar FP's rigid design allows it to withstand many unfavorable conditions especially variable air volume (VAV) systems.

### APPLICATIONS

The Aerostar FP's unique, inherently stable filter design distributes air evenly across the filter. It allows for large variations in air flow and pressure drop without affecting filter performance and efficiency. The Aerostar FP performance is not affected by repeated fan shut-downs or changes in air flow velocities. The Aerostar FP is rated at continuous air flow rates of 3000 cfm.

The Aerostar FP is designed to handle nearly all types of unusual circumstances: 100% relative humidity, turbulent air flow, intermittent exposure to water, repeated fan shutdown, desert and marine installations. The Aerostar FP can be used in virtually any application.



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## FP MINI-PLEAT FILTER

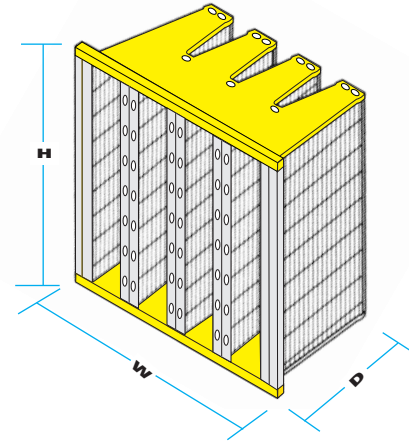
### DIMENSIONS AND PERFORMANCE DATA

MODEL NUMBER	SIZE	ACTUAL FILTER DIMENSIONS (H x W x D)	APPROX. WEIGHT POUNDS	MEDIA AREA (sq. ft.)
FP24	24 X 24 X 12	23 3/8 X 23 3/8 X 11 1/2	16.3	193
FP20	20 X 24 X 12	19 3/8 X 23 3/8 X 11 1/2	13.4	162
FP12	12 X 24 X 12	11 3/8 X 23 3/8 X 11 1/2	8.2	97
FP2020	20 X 20 X 12	19 3/8 X 19 3/8 X 11 1/2	12.0	120

### APPLICATION PARAMETERS

Maximum Constant Temperature:  
 Standard: 150° F  
 High Temp: 250° F  
 Flammability:  
 UL 900 Class 2  
 UL 900 Class 1 (consult factory)

Media:  
 Wet Laid Microglass  
 Relative Humidity:  
 100%  
 Recommended Final Pressure Drop:  
 2.0" w.g.

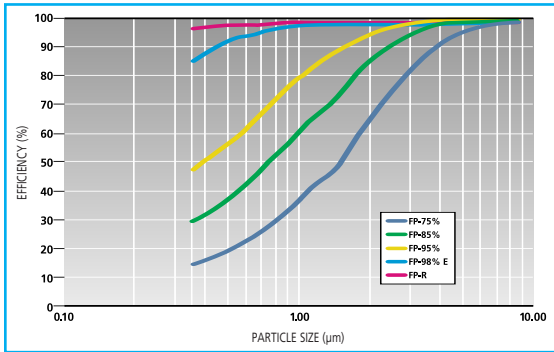


### TECHNICAL DATA

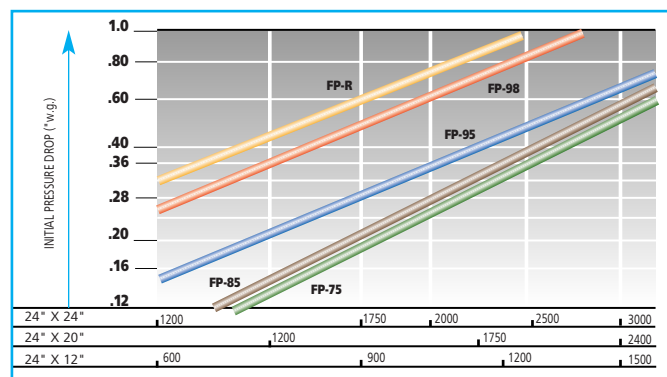
FP MINI-PLEAT 24X24X12	75%			85%			95%			98%			R		
Air Flow (cfm)	2000	2500	3000	2000	2500	3000	2000	2500	3000	2000	2500	3000	2000	2500	3000
Initial Pressure Drop (*w.g.)	.28	.43	.58	.30	.45	.60	.38	.55	.72	.61	.81	*	.77	*	*
Average Atmospheric Efficiency (ASHRAE 52.1) @ 2000 cfm	75%			85%			95%			98%			>99%		
MERV (ASHRAE 52.2) @ 2000 cfm	MERV 11			MERV 13			MERV 14			MERV 16			MERV 16		
Init. Efficiency at 0.3 μm @ 2000 cfm	N/A			N/A			N/A			89%			97%		

\*Not recommended

### FP-SERIES (Minimum Efficiencies per ASHRAE 52.2)

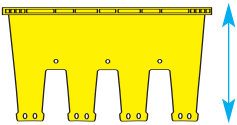


### NOMINAL AIR FLOW (cfm)

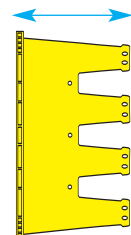


### AIR FLOW VERSATILITY

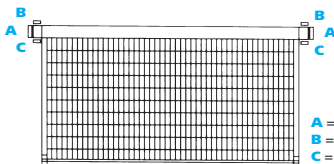
**HORIZONTAL**  
 AIR FLOW DIRECTION



**VERTICAL**  
 AIR FLOW DIRECTION

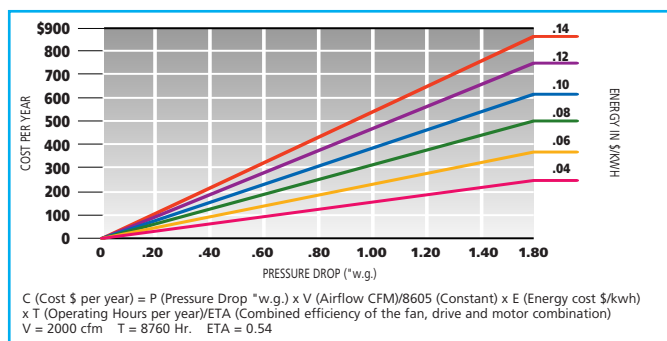


**DOUBLE HEADER**



A = SIDE GASKET  
 B = UPSTREAM GASKET  
 C = DOWNSTREAM GASKET

### FILTER RUNNING COST (\$/YR)



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