

General

Super-Flow® Q mini-pleat filters are designed for use in most commercial and industrial HVAC systems where medium to high efficiency filtration is required but with minimal cost.

Super-Flow® Q filters are available in average efficiency ranges: 65% and 95%. The filter may be operated at face velocities from 0 to 500 fpm. Super-Flow® Q filters are UL 900 Class 2 listed.

Construction

Super-Flow® Q filters are constructed of multiple mini-pleat panels bonded to flame-retardant plastic panels on top and bottom to make an unusually strong assembly that is both corrosion and moisture resistant. Aerodynamic extruded plastic vertical supports minimize air entry turbulence. Super-Flow® Q filters are totally rigid making them ideal for variable air volume (VAV) systems, as well as applications downstream of supply fans. The use of all plastic materials makes the Super-Flow® Q totally disposable and incineratable.

Low Pressure Drop

Super-Flow® Q mini-pleat filters have a low clean pressure drop as compared to other rigid style filter designs of the same efficiency. This affords low fan energy costs during much of the life of the filter system. In addition, they are the filters of choice for packaged air conditioning systems that do not have the fan capacity of larger central systems.

Physical Data

Media: Moisture-resistant microfine fiberglass

Filter Pack: Minipleat panels

Media Support: Adhesive

Top and Bottom Panels: Flame-retardant plastic

Vertical Supports: Aerodynamic extruded plastic vertical supports

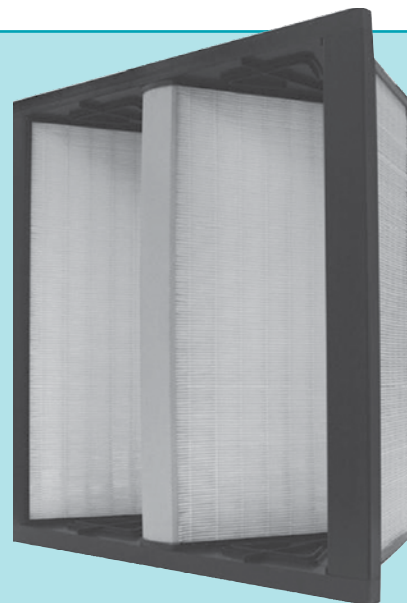
Operating limits: 160 F and 100% RH continuous duty

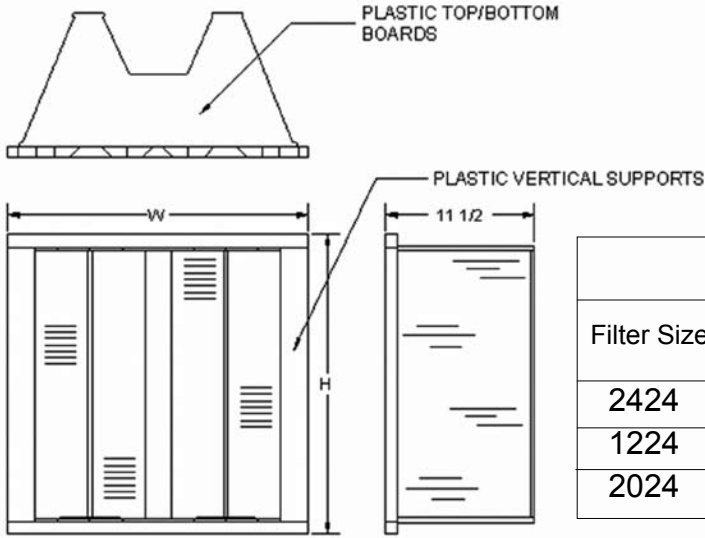
Actual Header Size: Nominal size less 5/8" (e.g. a nominal 24" x 24" filter is actually 23-3/8" x 23-3/8")

Actual Depth: 11-1/2"

Important Features

- Longer service life than traditional rigid style because of a very high ratio of media to nominal face area
- Aerodynamic vertical supports minimize air entry turbulence
- Minipleat panels provide rigidity for VAV systems and resistance to turbulent air flow
- May be operated from 0 to 500 fpm face velocity in either air flow direction
- Moisture resistant for humid air applications
- MERV 12 and 15





Super-Flow® Q

Drawing and Filter Performance

Filter Performance				
Filter Size	Design Flow	Pressure Drop ("w.g.)		Media Area (sq.ft.)
		60 - 65%	90-95%	
2424	2000 CFM	0.39	0.56	100
1224	1000 CFM	0.39	0.56	45
2024	1600 CFM	0.39	0.56	85

Guide Specifications

1.0 General

- 1.1 Medium and high efficiency extended surface low pressure drop minipleat filters shall be Super-Flow® Q models as manufactured by Flanders.
- 1.2 Filter sizes, efficiencies and capacities shall be as scheduled on the drawings.

2.0 Filter Construction

- 2.1 Filters shall consist of multiple minipleat panels bonded to flame-retardant plastic panels on top and bottom and aerodynamic design extruded aluminum struts.

3.0 Performance

- 3.1 Initial and final resistances shall not exceed the scheduled values.
- 3.2 The average efficiency shall be as determined by ASHRAE Standard 52.2 test methods.
- 3.3 ASHRAE efficiency 98% models shall be MERV 15, 95% model shall be MERV 14, 85% model shall be MERV 13, 75% model shall be MERV 11 by ASHRAE Standard 52.2.
- 3.4 Filters shall be UL 900 Class 2 listed.

Flanders/FFI®

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