

V-Cells

- High capacity, up to 750 FPM
- Aerodynamic design
- Versatile rigid construction
- Superior moisture resistance
- Low airflow resistance
- Five efficiencies
- Light weight, easy to handle
- Corrosion resistant

This design, you get up to 220 square feet of high efficiency media⁽¹⁾ in a filter that's designed for high airflow at low resistance. It is the perfect filter for applications that specifically require these features, plus an excellent upgrade for other systems.

(1) Based on 24"x24"x12" filter.

Robust scientific design - One inch depth mini-pleat packs of high efficiency microglass media are formed into a precise v-bank configuration and held in position with a fire retardant plastic frame. The support struts in the V-Cell filters are **aerodynamically** shaped aluminum, designed to create less airflow turbulence than competing filters.

Superior moisture resistance - The V-Cell filter's mini-pleat media operates well in high moisture conditions and is unaffected by intermittent wetness, allowing the filter to maintain efficiency where others fail. Moreover, The V-Cell filter has corrosion resistant aluminum struts where others use weak 16 to 18 gauge metal strips that rust.

Rigid construction- The V-Cell filter is completely rigid, and can be installed with the banks running either vertically or horizontally and with airflow running in either direction. These features make the V-Cell filter an ideal filter for VAV (Variable Air Volume) applications, turbulent airflow, high humidity and applications with frequent fan shutdown.

Choice of efficiencies - The V-Cell filter is available in ASHRAE efficiencies of 75%, 85%, 95%, and 98%, plus DOP efficiency of 95%.

Designed for high airflow - V-Cell filters in 24"x24" size can operate effectively at volumes up to 3000 CFM. Aerodynamic aluminum struts on the ends of mini-pleat banks minimize turbulence as air enters the filter.

Low resistance - The V-Cell filter's radial supports and large media area result in low initial resistance. Lower resistance means lower energy demand, longer service life, and less downtime/maintenance for lower cost of ownership.

Perfectly spaced, rigid minipleats

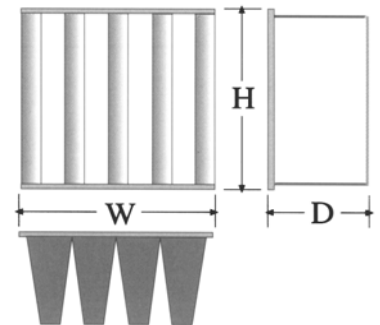
Minipleat technology has been used for several years in the production of HEPA and ULPA filters for cleanrooms. It allows high efficiency filtration at low resistance in a small area. The minipleat media pack in the V-Cell filter is produced using Boron Silicate Microglass Media which is pleated. The pleats are perfectly separated and held with continuous beads of a thermo-setting adhesive. The result is a rigid media pack with perfectly spaced pleats.



Typical applications:

- Hospitals & health care facilities
- Commercial buildings
- Microelectronics
- Automotive paint facilities
- Pharmaceutical
- Food processing plants
- Airports
- Film production
- Sports facilities, arenas

	Nominal	Actual
W	24"	23 ³ / ₈ "
H	24"	23 ³ / ₈ "
	20"	19 ³ / ₈ "
	12"	11 ³ / ₈ "
D	12"	11½"



TECHNICAL DATA

Temperature Range	150° F continuous 200° F Intermittent
Humidity resistance	Up to 100%
Burst Resistance	Average burst pressure 8.0" w.g. Guaranteed burst resistant to 6.0" w.g.
Final resistance	2.0" w.g. recommended 3.2" w.g. maximum

Model Designator	Average Efficiency	Resistance @ 500 FPM	Resistance @ 625 FPM	Resistance @ 750 FPM
SFV75	75% ASHRAE	0.25" w.g.	0.37" w.g.	0.52" w.g.
SFV85	85% ASHRAE	0.28" w.g.	0.41" w.g.	0.62" w.g.
SFV95	95% ASHRAE	0.37" w.g.	0.52" w.g.	0.68" w.g.
SFV98	98% ASHRAE	0.60" w.g.	0.80" w.g.	Not recommended
SFVD95	95% DOP	0.76" w.g.	1.0" w.g.	Not recommended

Size designator	Nominal Size (HxWxD)	Actual Size (HxWxD)	Media Area
44	24"x24"x12"	23 ³ / ₈ "x23 ³ / ₈ "x11½"	220 sq. ft.
40	24"x20"x12"	23 ³ / ₈ "x19 ³ / ₈ "x11½"	180 sq. ft.
42	24"x12"x12"	23 ³ / ₈ "x11 ³ / ₈ "x11½"	120 sq. ft.

SUGGESTED SPECIFICATIONS

The filter shall be a V-Cell minipleat filter. The filter shall have an average efficiency of _____ (75% ASHRAE, 85% ASHRAE, 95% ASHRAE, 98% ASHRAE or 95% DOP). The filter shall have a minimum of 8 nominal 1" deep minipleat media packs that are sealed in a V configuration for low resistance and high dust holding capacity. The filter frame shall be fire retardant plastic with extruded aluminum vertical supports to provide a rigid and lightweight filter.

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P174