Filtrowin Industries

Filtro Cell V HEPA

Minipleat Compact HEPA Filters

Key Features

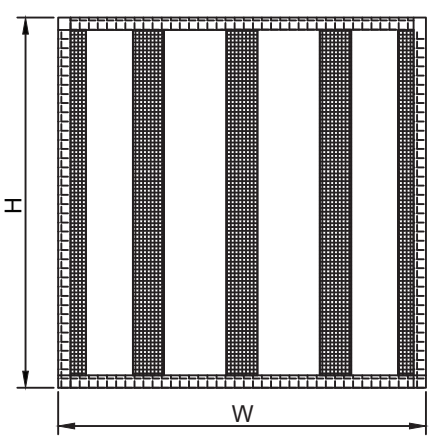
- Large filtration surface area
- Long service life
- Effortless installation and compatibility with all standard filter frames.
- Fully incinerable without pollutant emission
- Low pressure drop

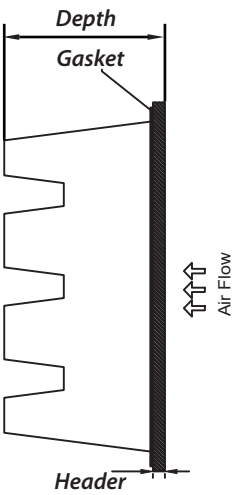
- **Filter Standard** ASHRAE 52.2 / EN 1822 / IEST-RP-CC001
- **Frame Type** HIPS
- **Header** Available in 20mm & 25mm
- **Colour** Blue & Black
- **Media** Glass Fiber
- **Separator** Hotmelt
- **Sealing component** Polyurethane
- **Efficiency** E10 to H13 / DOP 95% to 99.99%
- **Max. Operating Temperature** 100°C / 212°F
- **Final Pressure Drop** 600 Pa / 2.4" WG
- **Gasket** Single Piece PU Foam

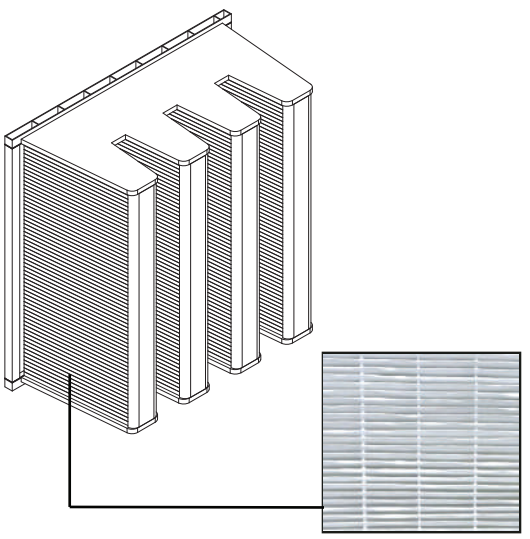
Filtro Cell V HEPA filters are the new generation type of high efficiency Minipleat compact HEPA filters available in a wide range of efficiencies from E10 to H13. Filtro Cell V HEPA filters are designed to use in HVAC installations where highest degree of air cleanliness is required. The high burst resistance, low pressure drop and high dust holding capacity offered by the filter make it an ideal filter for extreme operating conditions like Gas Turbine air intake fine filtration. This filter perfectly suits the third stage filtration levels in Gas Turbines after a normal G4 pre filter and F7, F8 or F9 fine filter depending on the applications.

Construction

Filtro Cell V HEPA filters are made up of water resistant micro-fine glass fiber media closely pleated and separated using hot melt bead separators which gives a unique V configuration to the pleats and accommodates large amount of filter media. The minipleated media packs are arranged in a perfect V design to an enclosing robust frame made of plastic. Filters are fully glued with polyurethane for complete air tightness. These filters come with PU Foam single piece gasket to ensure a 100% leak free installation.
The VGT model filters utilizes a special grade media offering very high dust holding capacity and the mini-pleat packs are backed with an additional plastic grid support for each media panels to ensure protection during operation at harsh conditions. Filters are absolutely metal free and so are incinerable and environmentally friendly. Made in a low weight design, these filters are also perfect for humid and salt-laden environments. Low energy versions featuring high media area are available.







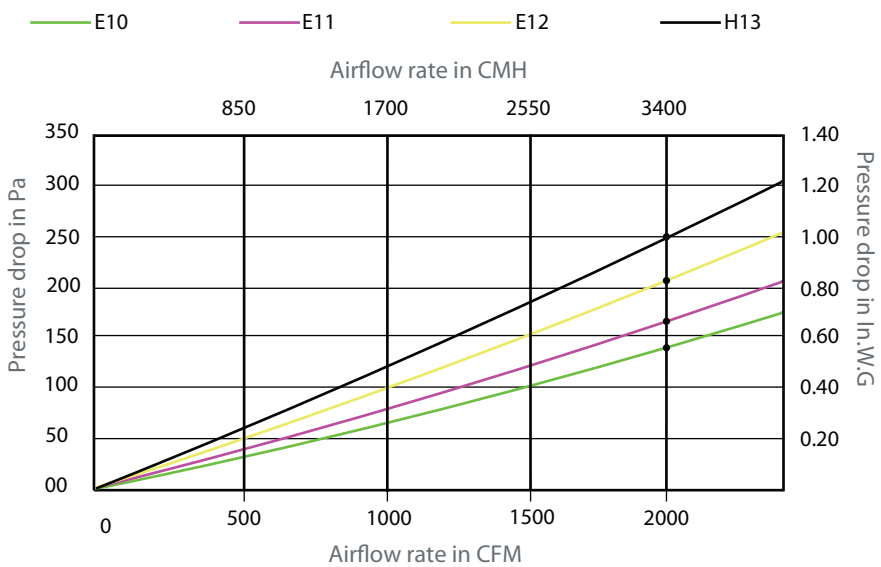
Closely pleated & separated by continuous hotmelt bead separators

Performance Data

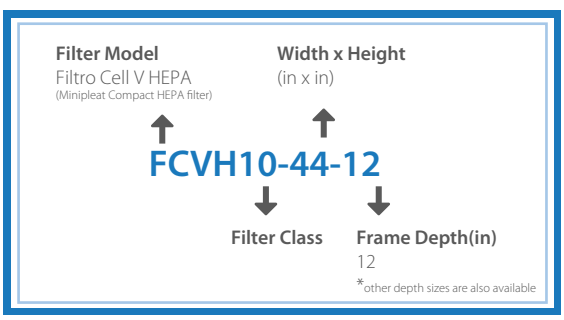
Filter Model	Nominal Size (in)	Actual Size		Efficiency	Rated Air Flow (CMH/CFM)	Initial Resistance (Pa / in.W.G)
		(mm)	(in)			
FCVH10-44-12	24x24x12	592X592X292	23.31x23.31x11.5	E10 / DOP 95%	3400/2000	140 / 0.55
FCVH10-24-12	12x24x12	287X592X292	11.5x23.31x11.5	E10 / DOP 95%	1700/1000	140 / 0.55
FCVH11-44-12	24x24x12	592X592X292	23.31x23.31x11.5	E11 / DOP 98%	3400/2000	160 / 0.63
FCVH11-24-12	12x24x12	287X592X292	11.5x23.31x11.5	E11 / DOP 98%	1700/1000	160 / 0.63
FCVH12-44-12	24x24x12	592X592X292	23.31x23.31x11.5	E12 / 99.97%	3400/2000	205 / 0.80
FCVH12-24-12	12x24x12	287X592X292	11.5x23.31x11.5	E12 / 99.97%	1700/1000	205 / 0.80
FCVH13-44-12	24x24x12	592X592X292	23.31x23.31x11.5	H13 / 99.99%	3400/2000	250 / 1
FCVH13-24-12	12x24x12	287X592X292	11.5x23.31x11.5	H13 / 99.99%	1700/1000	250 / 1

Note: Other size having filter face size 20x24" operates at 80% air volume and filter face 12x24" operates at 50% of air volume of 24x24" . Pressure drop remains the same.

Airflow vs Initial Resistance



Model Details Breakdown



Frame	HIPS
Media	Micro fine glass fiber
Separator	Hotmelt
Sealant	Polyurethane
Header	Available in 20mm and 25mm
Temperature	100°C/212°F max. operating temp.
Colour	Black & Blue
Nominal Air flow	3400 CMH / 2000CFM
Final pressure drop	600 Pa / 2.4" WG
Efficiency standa	ASHRAE 52.2/EN 1822/EST-RP-CC001

Available upon request	GT Version (Filtro Cell VGT)
	Additional media efficiency
	Synthetic Media for Excellent Mechanical Strength(Filtro cell SV)
	Reverse Flow Configuration (Filtro Cell VGT R)

Our Group Companies and Global Network

Aerofil Filters Manufacturing LLC

CLAIRON Quality Air Filters

Aerofil International GmbH