Filtrowin Industries

Filtro Cell VGT R

Reverse Flow Minipleat Compact Filters

Key Features

- Engineered for reverse airflow applications
- Plastic grid support on exit side
- Metal-free design – 100% incinerable
- Suitable for high airflow and high-velocity conditions
- Mini-pleat media design for maximum filtration area.
- High dust holding capacity
- Low pressure drop
- High burst strength

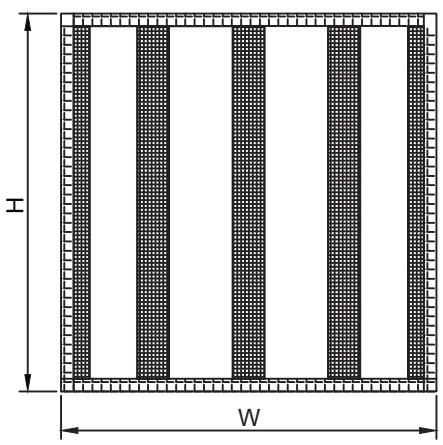
- **Filter Standard** ASHRAE 52.2 / EN1822 / ISO29461-1:2021
- **Frame Type** HIPS
- **Header** Available in 20mm & 25mm
- **Colour** Blue & Black
- **Media** Glass Fiber
- **Separator** Hotmelt
- **Sealing component** Polyurethane
- **Efficiency** M6 to H13 / MERV11 to MERV16 (HEPA up to 99.99%)

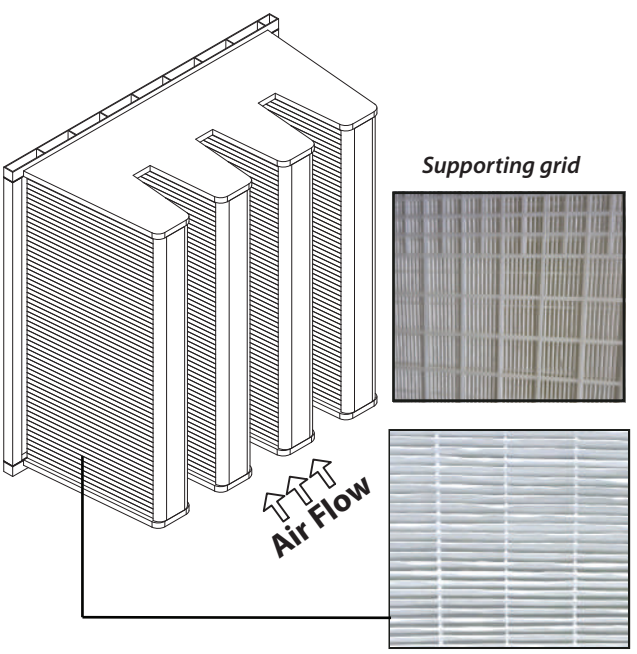
- **Max. Operating Temperature** 100°C /212°F
- **Final Pressure Drop** 450 Pa / 1.8" WG
  625 Pa / 2.5" WG - HEPA
- **Gasket** Single piece PU foam

Filtro Cell VGT R is a high-performance reverse flow mini-pleat compact filter designed for demanding air filtration applications. Utilizing a special GT grade micro-fine media, it delivers superior dust holding capacity and consistent filtration efficiency. The filter offers a wide efficiency range from M6 /MERV 11 to H13 /99.99%, making it suitable for multi-stage filtration systems. Filtro Cell VGT R models designed to withstand extreme operating conditions such as gas turbine air intake filtration and it's providing high burst resistance, low pressure drop, and extended service life. The filters are fully sealed with polyurethane, completely metal-free, and 100% incinerable, ensuring safe operation.

Construction

Filtro Cell VGT R filters are constructed using mini-pleated micro-fine glass fiber media, configured in a compact V-cell design to maximize effective filtration area and airflow capacity. Each media pack is reinforced with a rigid plastic grid support on the air exit side, providing enhanced protection and structural stability under reverse airflow and high-pressure conditions. The media is uniformly spaced using continuous thermoplastic hotmelt separators and is securely bonded within a robust injection-molded frame using two-component polyurethane sealing. This advanced construction ensures leak-proof performance, high mechanical strength, and reliable operation in harsh, high-velocity airflow environments.





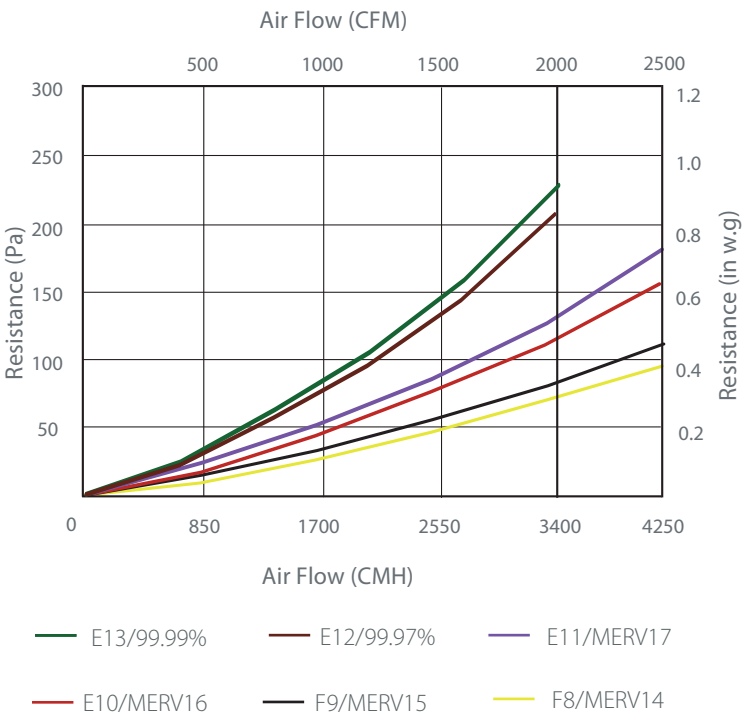
Closely pleated & separated by continuous hotmelt bead separators

Performance Data

Filter Model	Nominal Size (in)	Actual Size (mm)	Efficiency	Rated Air Flow (CMH/CFM)	Initial Resistance (Pa / in.w.g)
17" / 430mm Depth					
FCVGTR13-44-17	24X24X17	592X592X430	99.99% / H13	3400/2000	220 / 0.88
FCVGTR12-44-17	24X24X17	592X592X430	99.97% / E12	3400/2000	205 / 0.82
FCVGTR11-44-17	24X24X17	592X592X430	MERV17 / E11	4250/2500	170 / 0.68
FCVGTR10-44-17	24X24X17	592X592X430	MERV16 / E10	4250/2500	152 / 0.6
FCVGTR9-44-17	24X24X17	592X592X430	MERV15 / F9	4250/2500	119 / 0.47
FCVGTR8-44-17	24X24X17	592X592X430	MERV14 / F8	4250/2500	99 / 0.4
FCVGTR7-44-17	24X24X17	592X592X430	MERV13 / F7	4250/2500	91 / 0.36
FCVGTR6-44-17	24X24X17	592X592X430	MERV11 / M6	4250/2500	83 / 0.33
12" / 292mm Depth					
FCVGTR13-44-12	24X24X12	592X592X292	99.99% / H13	3400/2000	280 / 1.1
FCVGTR12-44-12	24X24X12	592X592X292	99.97% / E12	3400/2000	250 / 1.0
FCVGTR11-44-12	24X24X12	592X592X292	MERV17 / E11	4250/2500	255 / 1.02
FCVGTR10-44-12	24X24X12	592X592X292	MERV16 / E10	4250/2500	190 / 0.76
FCVGTR9-44-12	24X24X12	592X592X292	MERV15 / F9	4250/2500	125 / 0.5
FCVGTR8-44-12	24X24X12	592X592X292	MERV14 / F8	4250/2500	105 / 0.42
FCVGTR7-44-12	24X24X12	592X592X292	MERV13 / F7	4250/2500	98 / 0.39
FCVGTR6-44-12	24X24X12	592X592X292	MERV11 / M6	4250/2500	95 / 0.38

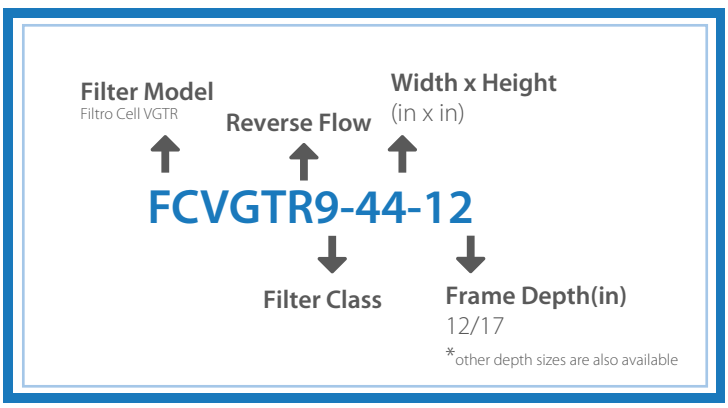
Airflow vs Initial Resistance

* Size : 17" / 430 mm depth



Available upon request	Standard flow configuration(Filtro Cell VGT)
	Additional media efficiency
	Synthetic media for excellent mechanical strength

Model Details Breakdown



Type	Reverse flow minipleat compact filter
Frame	Injection molded plastic
Media	Micro fine glassfiber
Separator	Hotmelt
Sealent	Two component polyurethane
Header	Available in 20mm and 25mm
Max.operating temp.	100°C / 212°F
Burst Strength	> 8000 Pa / 32" WG
Gasket	Single piece PU foam
Final pressure drop	450 Pa / 1.8" WG | 625 Pa / 2.5"WG - HEPA
Nominal velocity	3.17m/s
Efficiency standard	ASHRAE 52.2 / ISO 29461-1:2021/ EN1822

Our Group Companies and Global Network

Aerofil Filters Manufacturing LLC

Aerofil International GmbH

CLAIRON Quality Air Filters