

# Filtro Cell V

## Minipleat Compact Filters



### Key Features

- Large filtration surface area
- Self-supporting and rigid
- 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 / EN779 / ISO16890
- ▼ **Frame Type** HIPS
- ▼ **Header** Available in 20mm & 25mm
- ▼ **Colour** Blue & Black
- ▼ **Media** Glass Fiber
- ▼ **Separator** Hotmelt
- ▼ **Sealing component** Polyurethane
- ▼ **Efficiency** M6 to F9 / MERV11 to MERV15

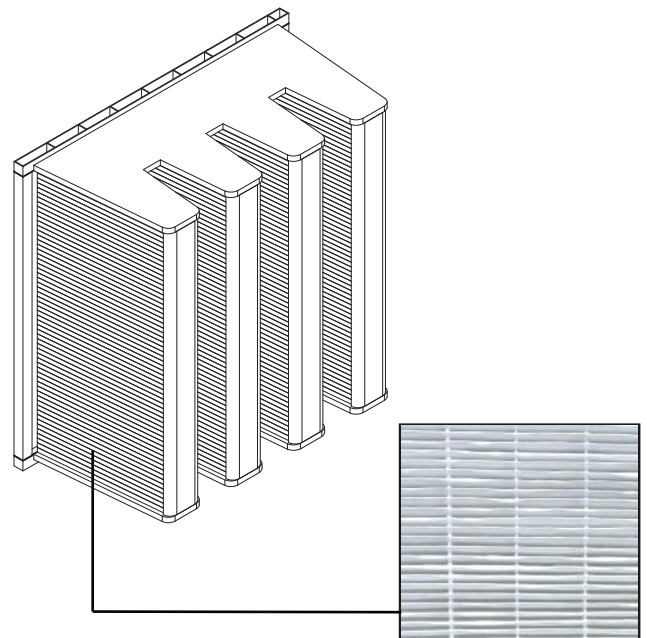
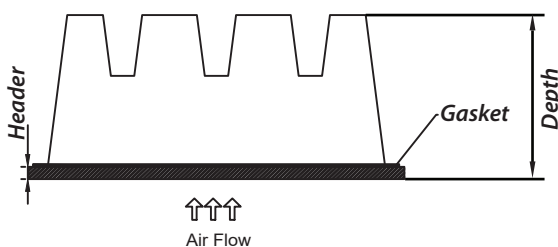
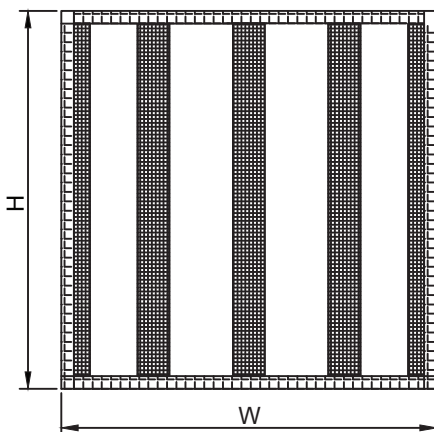
- ▼ **Max. Operating Temperature** 100°C
- ▼ **Final Pressure Drop** 450 Pa / 1.8" WG
- ▼ **Gasket** Without (available upon request)

**Filtro Cell V** filters are the high efficiency minipleat compact filters made of micro-fine glass fiber media, are available in a wide range of efficiencies from M6-F9 / MERV11-MERV15. Filtro Cell V are designed for use in HVAC installations where the highest degree of air cleanliness is required. The compact design, larger surface area and low initial resistance make them an ideal alternative to ordinary bag filters & box type filters of similar efficiencies. This models are also available with very high burst resistance, low pressure drop and high dust holding capacity for extreme operating conditions such as gas turbine air intake fine filtration application. Filtro Cell VGT Models are available with plastic grid support as face guards.

### Construction

**Filtro Cell V** filters are made of water resistant micro-fine glass fiber filter media, closely pleated & separated by continuous thermoplastic bead separators. This design accommodates a very large quantity of filter media which offer a longer service life and low pressure drop. The minipleat media packs are arranged in perfect Vdesign and sealed to the enclosing frame. Single piece PU foam gasket is optional.

**Filtro Cell VGT** model filters utilizes a special grade media offering very high dust holding capacity and the minipleat packs are backed with an additional plastic grid support on each media panel ensuring protection during operation at harsh conditions. All filters are fully sealed with PU. Filters are absolutely metal free and so are 100% incinerable. Filters can also be made in reverse flow design. These filters offers very high burst pressure, hence ideal for extreme operating conditions such as gas turbine air intake applications.



*Closely pleated & separated  
by continuous hotmelt bead  
separators*



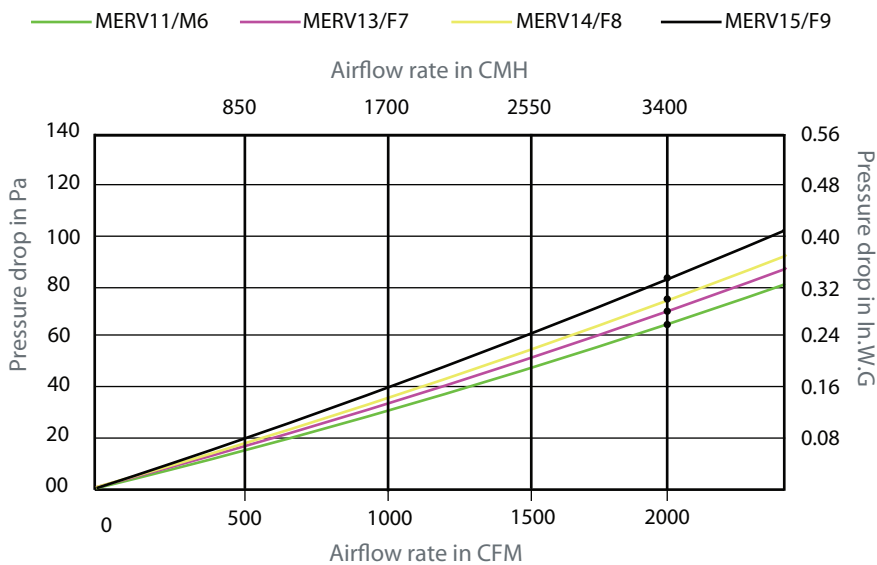


## Performance Data

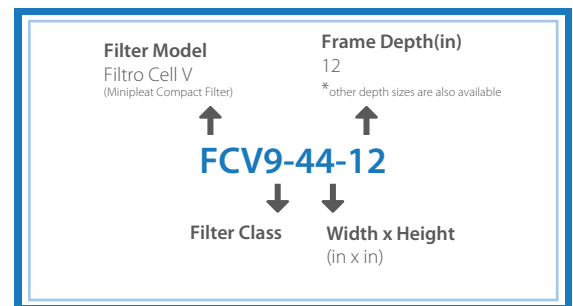
Filter Model	Nominal size (in)	Actual Size		ASHRAE 52.2 / EN 779 : 2012	Arrestance (%)	Rated Air Flow (CMH/CFM)	Initial Resistance (Pa / In.W.G)
		(mm)	(in)				
FCV9-44-12	24X24X12	592X592X292	23.31X23.31X11.5	MERV 15/F9	99.9	3400/2000	87/0.35
FCV9-04-12	20X24X12	490X592X292	19.29X23.31X11.5	MERV 15/F9	99.9	2750/1618	87/0.35
FCV9-24-12	12X24X12	287X592X292	11.3X23.31X11.5	MERV 15/F9	99.9	1700/1000	87/0.35
FCV8-44-12	24X24X12	592X592X292	23.31X23.31X11.5	MERV 14/F8	99.9	3400/2000	72/0.29
FCV8-04-12	20X24X12	490X592X292	19.29X23.31X11.5	MERV 14/F8	99.9	2750/1618	72/0.29
FCV8-24-12	12X24X12	287X592X292	11.3X23.31X11.5	MERV 14/F8	99.9	1700/1000	72/0.29
FCV7-44-12	24X24X12	592X592X292	23.31X23.31X11.5	MERV 13/F7	99	3400/2000	67/0.27
FCV7-04-12	20X24X12	490X592X292	19.29X23.31X11.5	MERV 13/F7	99	2750/1618	67/0.27
FCV7-24-12	12X24X12	287X592X292	11.3X23.31X11.5	MERV 13/F7	99	1700/1000	67/0.27
FCV6-44-12	24X24X12	592X592X292	23.31X23.31X11.5	MERV 11/M6	98	3400/2000	64/0.26
FCV6-04-12	20X24X12	490X592X292	19.29X23.31X11.5	MERV 11/M6	98	2750/1618	64/0.26
FCV6-24-12	12X24X12	287X592X292	11.3X23.31X11.5	MERV 11/M6	98	1700/1000	64/0.26

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 max. operating temperature
Colour	Black & Blue
Nominal Air flow	3400 CMH / 2000CFM
Final pressure drop	450 Pa / 1.8" WG
Efficiency standard	ASHRAE 52.2 / EN 779 / ISO 16890

Available upon request	GT Version (FiltroCell 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



All data are average indicative values with usual manufacturing and testing tolerances. We reserve the right to modify performance data without prior notices due to the constant technical improvement.

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