Filtrowin Industries

# Filtro Cell SV

## Synthetic Minipleat Compact Filters

## Key Features

- Large filter surface
- Self-supporting and rigid
- Low pressure drop
- High burst strength
- Less maintenance and low energy consumption
- Long service life
- Easy installation
- Fully incinerable
- **UL Listed**

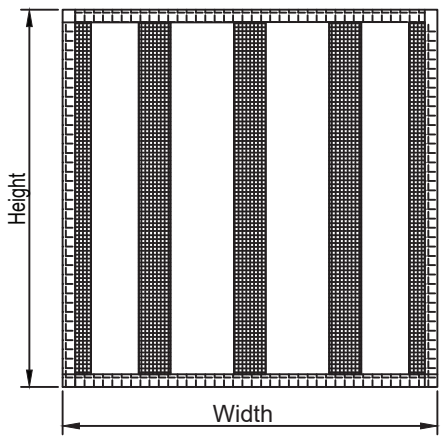
- **Filter Standard** ASHRAE 52.2 / EN 779 / ISO16890
- **Frame Type** HIPS
- **Colour** Blue / Black
- **Header Size** Available in 20 & 25 mm
- **Media** Synthetic
- **Separator** Hotmelt
- **Sealing component** Two component polyurethane
- **Efficiency** M6 to F9 / MERV11 to MERV15
- **Max. Operating Temperature** 80° C
- **Final Pressure Drop** 450 Pa / 1.8" WG
- **Gasket** Without (available on request)

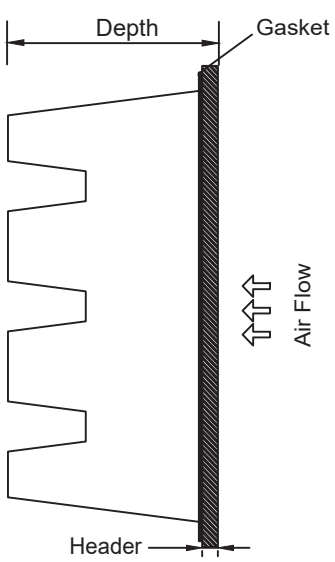
**Filtro Cell SV** high efficiency minipleat compact filters are made up of synthetic media are available in a wide range of efficiencies from M6 to F9 (MERV11 to MERV15). Filtro Cell SV are designed for HVAC installations where the highest degree of air cleanliness is required. The compact design, larger surface area and low initial resistance make it an ideal alternative to ordinary bag filters & box type filters of the similar efficiencies. Filtro Cell SV 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 etc.

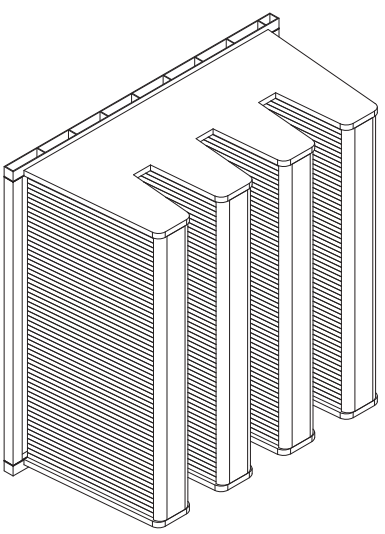
## Construction

**Filtro Cell SV** filters are made of synthetic paper fiber filter media, closely pleated and separated by continuous thermoplastic bead separators. This design accommodates a very large quantity of filter media which offers a longer service life and low pressure drop The mini-pleated media packs are arranged in perfect V design and sealed to the enclosing frame. Single piece PU foam gasket will be provided upon request.

**Filtro Cell SVGT** model filters utilize a special grade media offering very high dust holding capacity and the minipleat packs are backed with an additional plastic grid support for each media panel to ensure protection during operation at harsh conditions. Fully potted versions are also available. Filters are completely metal free and therefore incinerable and environmentally friendly. Filters can also be made In reverse flow design. Filtro cell SVGT models are ideal for extreme operating conditions like Gas turbine air intake applications.



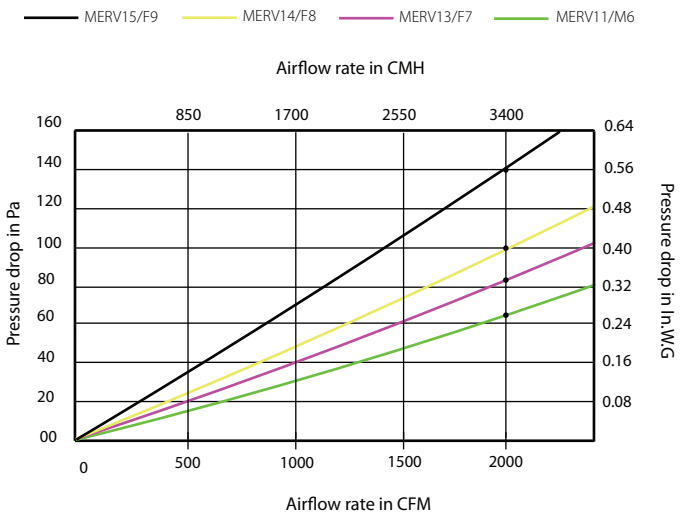



# Performance Data

| 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 | Inch | | | | |
| FCSV9-44-12 | 24X24X12 | 592X592X292 | 23.31X23.31X11.5 | MERV 15/F9 | 99.9 | 3400/2000 | 140/0.56 |
| FCSV9-04-12 | 20X24X12 | 490X592X292 | 19.29X23.31X11.5 | MERV 15/F9 | 99.9 | 2750/1618 | 140/0.56 |
| FCSV9-24-12 | 12X24X12 | 287X592X292 | 11.3X23.31X11.5 | MERV 15/F9 | 99.9 | 1700/1000 | 140/0.56 |
| FCSV8-44-12 | 24X24X12 | 592X592X292 | 23.31X23.31X11.5 | MERV 14/F8 | 99.9 | 3400/2000 | 100/0.40 |
| FCSV8-04-12 | 20X24X12 | 490X592X292 | 19.29X23.31X11.5 | MERV 14/F8 | 99.9 | 2750/1618 | 100/0.40 |
| FCSV8-24-12 | 12X24X12 | 287X592X292 | 11.3X23.31X11.5 | MERV 14/F8 | 99.9 | 1700/1000 | 100/0.40 |
| FCSV7-44-12 | 24X24X12 | 592X592X292 | 23.31X23.31X11.5 | MERV 13/F7 | 99 | 3400/2000 | 85/0.34 |
| FCSV7-04-12 | 20X24X12 | 490X592X292 | 19.29X23.31X11.5 | MERV 13/F7 | 99 | 2750/1618 | 85/0.34 |
| FCSV7-24-12 | 12X24X12 | 287X592X292 | 11.3X23.31X11.5 | MERV 13/F7 | 99 | 1700/1000 | 85/0.34 |
| FCSV6-44-12 | 24X24X12 | 592X592X292 | 23.31X23.31X11.5 | MERV 11/M6 | 98 | 3400/2000 | 70/0.28 |
| FCSV6-04-12 | 20X24X12 | 490X592X292 | 19.29X23.31X11.5 | MERV 11/M6 | 98 | 2750/1618 | 70/0.28 |
| FCSV6-24-12 | 12X24X12 | 287X592X292 | 11.3X23.31X11.5 | MERV 11/M6 | 98 | 1700/1000 | 70/0.28 |

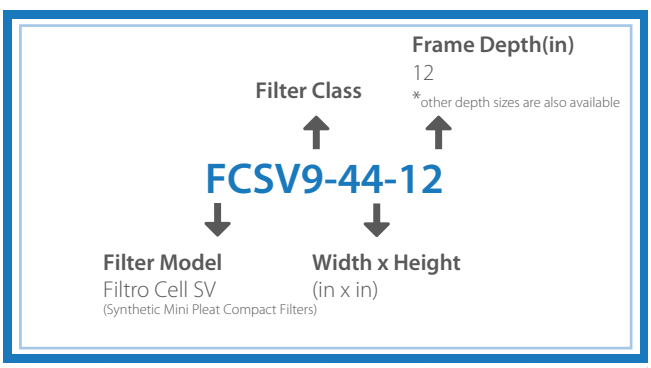
## Airflow vs Initial Resistance




| | |
|---|---|
| Available upon request | Plastic mesh support (Filtro cell SVGT) |
| | Reverse flow configuration |
| | 2V design |
| | Glass fiber media (Filtro cell V) |
| | Additional media efficiency |

## Model Details Breakdown

*Filter size 610 x 610 x 69




| | |
|---|---|
| **Frame** | HIPS |
| **Media** | Synthetic |
| **Header** | 20mm and 25mm |
| **Colour** | Black / Blue |
| **Sealant** | Polyurethane |
| **Max. Temperature** | 80°C |
| **Nominal Air flow** | 3400 CMH / 2000CFM |
| **Final pressure drop** | 450 Pa / 1.8 " WG |
| **Efficiency standard** | ASHRAE 52.2 / EN 779 / ISO16890 |
| **Gasket** | Upon request |

## Our Group Companies and Global Network

Aerofil Filters Manufacturing LLC

CLAIRON Quality Air Filters

Aerofil International GmbH