FUMEX CV

A flexible modular filter for particles and gas

Fumex modular filter, CV with its sturdy profile, gives the possibility to satisfy the need of several functions in one product.

The filter is, in its basic version, dimensioned to handle fumes from one work station, but several filters can be parallel connected to serve several work stations in the same system.

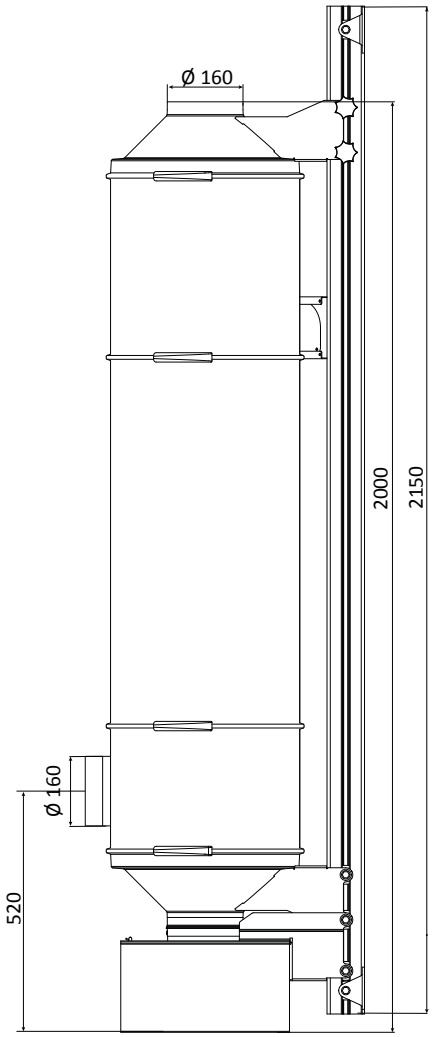
Maximum flexibility from a simple disposable filter to a solution with cleaning via compressed air, but also the possibility to combine particle- and gas filtration in the same unit or a gas filtration only.

The filter unit is wall mounted and the sturdy profile makes the installation easy, but also simplifies necessary service and maintenance.

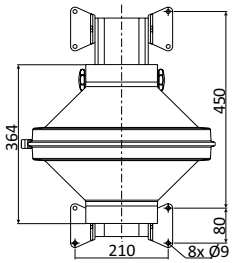
The Fumex range also includes fans, accessories, automatic control and local extraction for filters

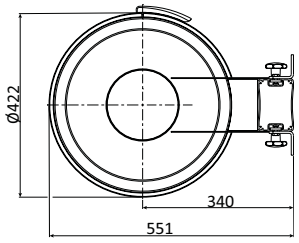
Cleanable filter unit

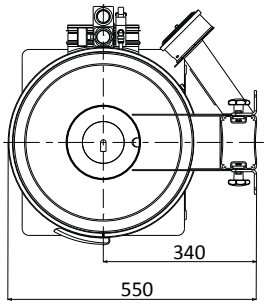
Cleanable filtration unit with a 14m² filter surface in polyester. The filter cartridge is cleaned via compressed air.



Pre-filter CVM



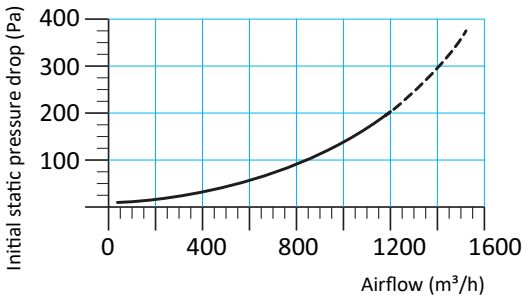




(mm)

CVP

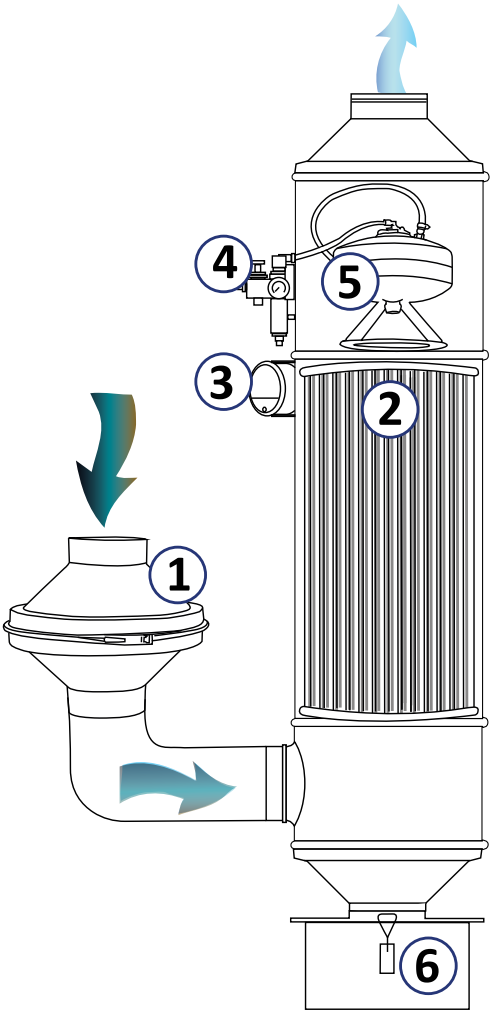
Filter with manual compressed air cleaning, with an external pre-filter, CVM, including a metal mesh. For applications with large amounts of dry particles, e.g. dust- and welding smoke in mechanical industries. Delivered with a filter cartridge, profile, two connections and requisite details for compressed air cleaning. It also includes an analogue pressure gauge that shows the pressure drop over the filter cartridge. The lower duct connection is 180° adjustable.



Specifications CVP

Filter casing:	Powder coated steel	Type of filter cartridge:	CFS 149
Profile:	Anodised aluminium	Material:	Polyester
Profile brackets:	Powder coated steel	Filter efficiency according	
Total weight:	53 kg	to EN-60335-2-69:	99,9 %
Max. temperature processed air:	60 °C	Dust class:	M(BIA)
Maximal negative pressure		Filter area:	14,9 m²
upper cartridge:	1800 Pa		

How the CVP works



Cleanable filter type CVP

With manual compressed air cleaning the filter has a long lifetime, even when there is a high load over the filter cartridge.

1. To protect the filter cartridge from large particles, a pre-filter (CVM) is placed on the inlet channel. The pre-filter can be mounted either on the wall or directly in the duct.

A vertical position of the filter simplifies a change of the filter cartridge.

2. Filter cartridge in polyester, with BIA filter class M, 14m² filter area.

3. Pressure gauge that shows the pressure drop over the filter cartridge. The initial pressure over the filter cartridge is 100-200 Pa, depending on the airflow. When the pressure drop has increased to 800-1000 Pa the filter cartridge should be cleaned via the pulse valve. The most efficient cleaning is done with the fan shut off and with 3 to 5 pulses. The filter cartridge can also be cleaned with the fan on. Indication for filter change.

4. Multi-function valve for compressed air:
·Shut off valve and evacuation valve.
·Pressure release function to set correct cleaning pressure 3,5 Bar.
·Pressure gauge that shows the set cleaning pressure value.
·Pulse valve to manually clean the filter cartridge.

5. Tank for compressed air with integrated pulse nozzle.

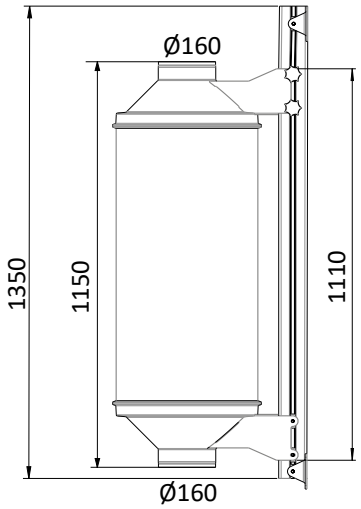
6. Below the inlet for polluted air, a bin for collection of dust is placed.

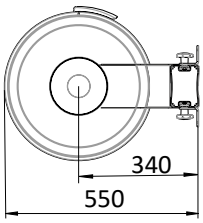
FUMEX CV

Disposable filter in steel casing

Filter unit with several options for filter cartridges (particle and gas). The cartridge is placed inside a powder coated steel casing. The filter cartridge and steel casing is placed between two gables on an anodised aluminium profile.
Delivered completely with filter cartridge, profile and two connections.

For an easy filter cartridge change, the top gable is released and is lifted on the profile.





(mm)

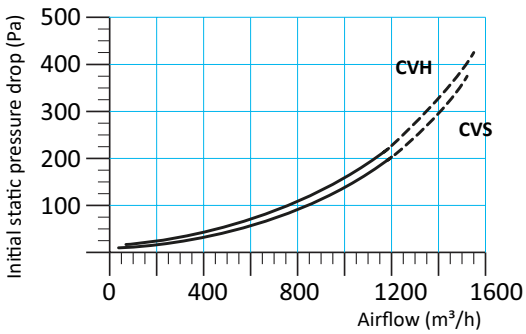
Particle filter

CVS

Filter for dry particles, e.g. dust- and welding smoke in mechanical industries. As a protection against big particles a pre-filter with a metal mesh is included inside the unit.

CVH

HEPA 13 filter with a very high level of separation. The filters are designed to create a clean zone, which is demanded when manufacturing e.g. pharmaceuticals and food. As a protection against big particles a pre-filter with a metal mesh is included inside the unit.



Specifications CVS/CVH

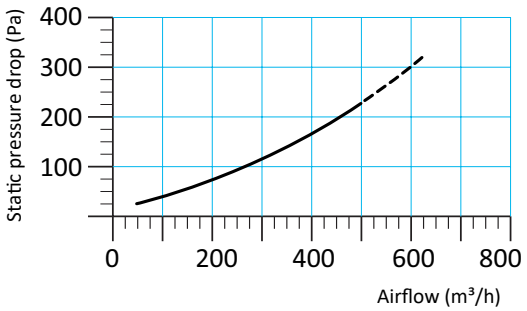
Filter casing:	Powder coated steel
Profile:	Anodised aluminium
Profile brackets:	Powder coated steel
Total weight:	27 kg
Max. temp. processed air:	60 °C
Maximal negative pressure upper cartridge:	1800 Pa

	CVS	CVH
Type of filter cartridge:	CFS 149	CFH 149
Material:	Polyester	Fiberglass
Filter efficiency according -to EN-60335-2-69:	99,9 %	
-to DOP 0,3 µm:		99,95 %
Dust class:	M(BIA)	
Filter area:	14,9 m²	14,9m²

Gas filter

CVC

The cartridge is placed inside a powder coated steel casing. Contains a standard active carbon that is suitable for absorption of odours, gases, smoke and VOC:s: e.g. toluene and methyl ethyl ketone.
To obtain the best result it's important to let the contact time between the carbon and the substance to be as long as possible. Therefore we recommend that the airflow over the filter module should not be higher than 500 m³/h. For a greater airflow two or more filter modules can be placed side by side.
If the polluted air also contains particles, it's advisable to place a particle filter before the carbon filter cartridge.

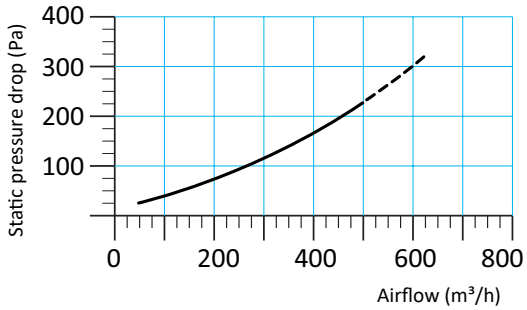


Specifications CVC

Filter casing:	Powder coated steel	Type of filter cartridge:	CFC 500
Profile:	Anodised aluminium	Material:	Active carbon
Profile brackets:	Powder coated steel	Weight:	16 kg
Total weight:	44 kg	Mesh size:	4 mm
Recommended temperature:	20 °C	CTC absorption (W/W):	65 %
Max airflow:	500 m³/h	Surface area (BET):	1050 m²/gr
		Apparent density:	0,49 kg/dm³

CVCC BiOn

The cartridge is placed inside a powder coated steel casing. Contains an impregnated active carbon that is suitable for absorption of formaldehyde and ammonia.
To obtain best result, it's important to let the contact time between the carbon and the substance to be as long as possible. Therefore we recommend that the airflow over the filter module should not be higher than 500 m³/h. For a greater airflow two or more filter modules can be placed side by side. If the polluted air also contains particles, it's advisable to place a particle filter before the carbon filter cartridges.

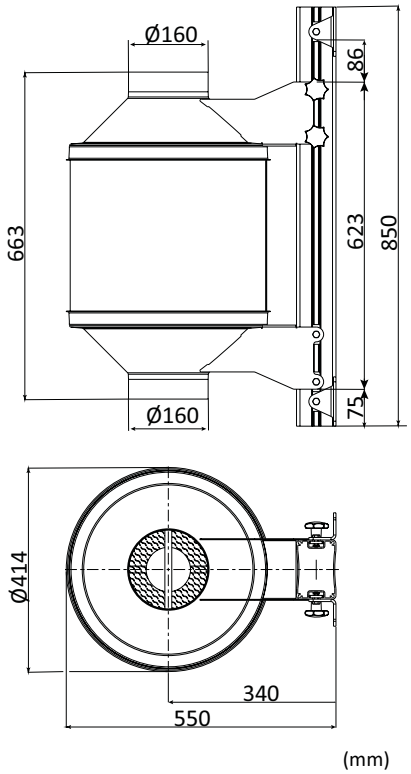


Specifications CVCC BiOn

Filter casing:	Powder coated steel	Material:	Impregnated active carbon
Profile:	Anodised aluminium	Weight:	16 kg
Profile brackets:	Powder coated steel	Mesh size:	3 mm
Total weight:	46 kg	CTC absorption (W/W):	45 %
Recommended temperature:	20 °C	Surface area (BET):	900 m²/gr
Max airflow:	500 m³/h	Apparent density:	0,75 kg/dm³
Type of filter cartridge:	CFCC 500 BiOn	Impregnation KMnO4:	11 %

Disposable filter

The filter cartridge is placed between two gables on an anodised aluminium profile.

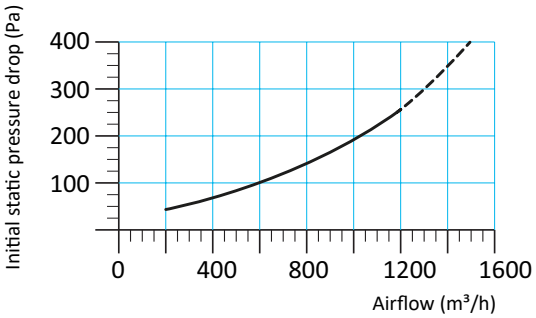


(mm)

CVD

The filter cartridge has a surface area of 22 m² in BIA class M. As a protection against big particles a pre-filter with a metal mesh is included inside the unit. The filter cartridge is placed between two gables on an anodised aluminium profile.
Delivered with a filter cartridge, profile and two connections.

For an easy filter cartridge change, the top gable is released and is lifted on the profile.



Specifications CVD

Filter casing:	Powder coated steel/paperboard	Type of filter cartridge:	CFD 220
Profile:	Anodised aluminium	Material:	Cellulose
Profile brackets:	Powder coated steel	Filter efficiency according	
Total weight:	16 kg	to EN-60335-2-69:	99 %
Max. temp. processed air:	60 °C	Dust class:	M(BIA)
Maximal negative pressure		Filter area:	22 m²
upper cartridge:	1800 Pa		

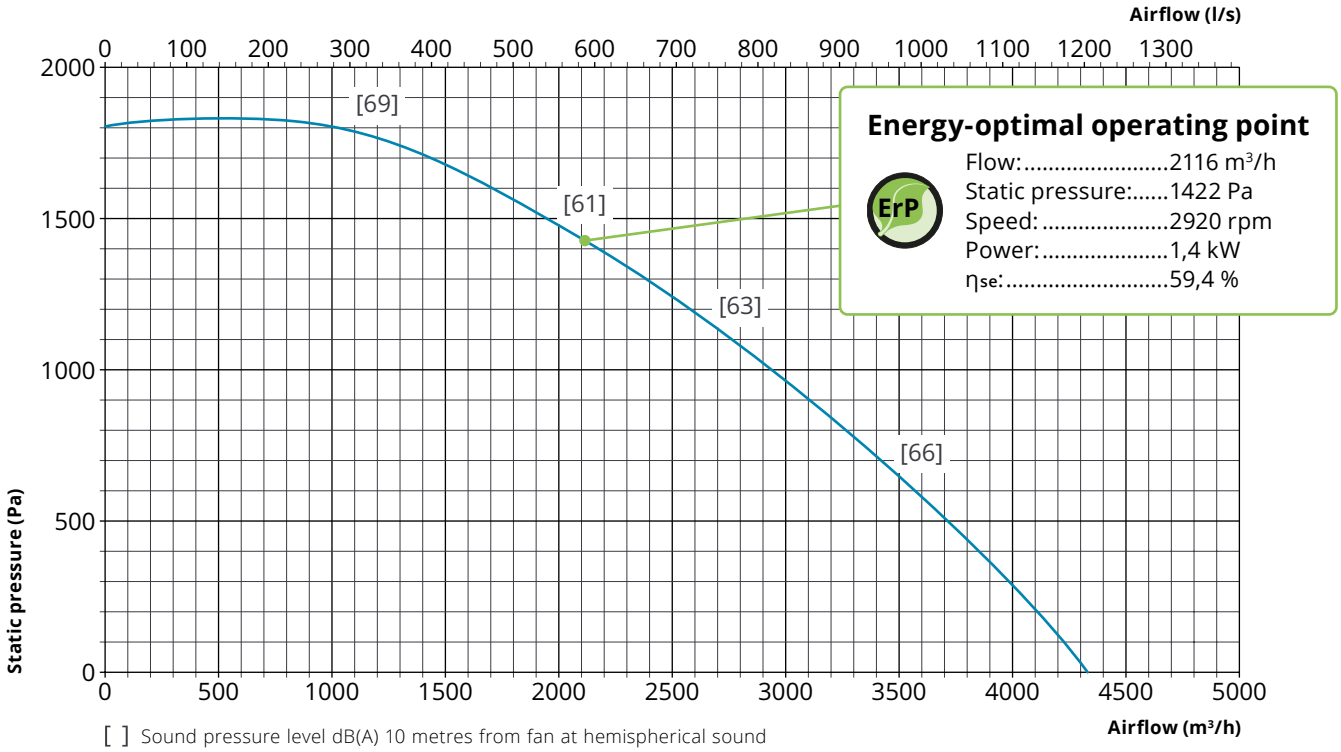
Accessories

FBE 150

The high efficiency meets the requirements of ErP for 2015.

For welding applications, fan FBE 150 will provide an airflow of approximately 1200 m³/ h and have a power output of 1,5 kW, single phase or three-phase.

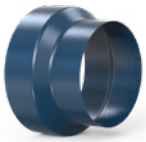
FBE 150 3- phase (230/400 V) 5,3/3,1 A



[ ] Sound pressure level dB(A) 10 metres from fan at hemispherical sound propagation in free field with ducted inlet and free-blowing outlet side.

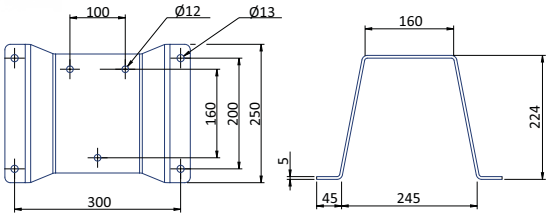
CV R315-160

Reducer to FBE. To be mounted on the inlet of the FBE 150 for a connection to the CV filter.



CV PR

Bracket to be mounted on wall to get the PR extractor to be lined up with the CV filter.



CV G

Analogue pressure gauge that shows the pressure drop over the filter cartridge. Delivered in a set with hose, connections and a bracket so it can be mounted on the aluminium profile.

Installation example