

# DriPak® GC Improves Air Quality in Urban Environments



The AAF DriPak GC combination bag filter is a newly-developed particle and molecular filter suitable for use in all types of existing ventilation installations. This reasonably priced filter not only protects against harmful particles, but also against nitrogen dioxide NO<sub>2</sub>, sulphur dioxide SO<sub>2</sub>, Volatile Organic Compounds (VOCs), PAHS and Ozone. By simply replacing your standard filter with DriPak GC you create a healthier indoor environment with enhanced well-being and often resulting in a better experienced job satisfaction with higher productivity.



- ISO16890: ePM1
- Fits all ventilation installations with 25 mm guide rails
- Double effect, removes both particles and gases
- Low CO<sub>2</sub> footprint by virtue of smart design
- Low initial pressure drop
- Max. operating temperature 50 °C
- Maximum relative humidity 70%

## Typical Applications

Applications needing odour control. For example where the supply air unit is located near roads or there is odour problems generated from nearby sewage or industry facilities, such as:

- Offices and properties in urban environments with heavy traffic flows
- Hospitals
- Schools
- Day care centres

## The Filter with Double Effect

The filter is a combination filter designed to remove both particles and molecules. The filter can remove 60% of fine air particles with a size < 0,4 µm and the carbon layer can decrease the levels of sulphur dioxide, nitrogen oxide, ozone and VOCs.

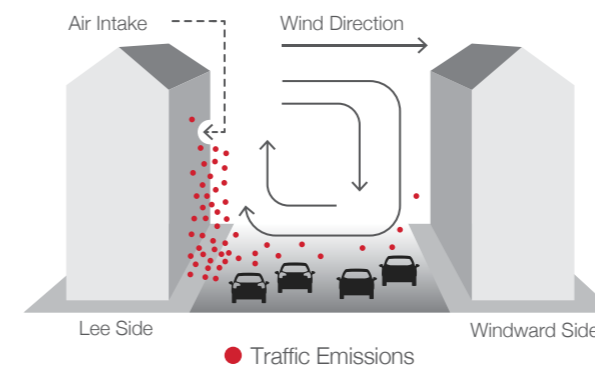
The filtration material is made of microglass and the gas filtration layer is made of activated carbon granules. Thanks to the strong structure of the material, these filters are easier to handle and keep their shape. The material used in the frame is metal.

The inner and outer frames of the filters are made of galvanized steel. To ensure tightness, the filter pockets are glued to the outer frame. Correct opening of the filter pockets is ensured by using distance holders sewn into the fabric; reliable and correct functionality as well as high dust holding capacity are thus ensured. The sewing seams are sealed with hot melt glue. The filter is very easy to assemble to a normal installation frame.



## Protect Indoor Environments

Studies show that urban environments with high levels of traffic often demand a significantly better protection of indoor environments than conventional standard filters can achieve. Increased traffic and a greater proportion of diesel vehicles in today's urban areas generate high levels of very small particles (PM<sub>2,5</sub>) and VOCs. When they react with air, in a chain of chemical reactions, oxidizing substances are created which irritate eyes, throat and damage the lungs. It is therefore very important to review the filter requirements of buildings and properties in inner cities and arterial roads. The problems with high particle and gas levels can intensify during days when temperature inversions significantly raise the local pollution levels and create smog. Sometimes unfavourable winds can suddenly make it possible for high levels of pollutants to be sucked in through the air intakes.



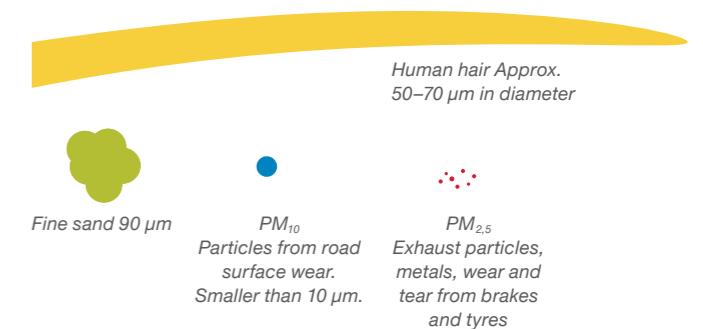
## Eliminate Harmful Contaminants

The DriPak GC filter protects against harmful particles, PM<sub>2,5</sub>, PM<sub>10</sub>, and gases such as SO<sub>2</sub>, NO<sub>2</sub>, Ozone as well as VOCs, volatile hydrocarbons and PAHS, polycyclic aromatic hydrocarbons.

For Human Health Impurity	Emission Limit Values	
	Average Value Period	EQS-Value
NO <sub>2</sub>	Hour	90 µg/m <sup>3</sup>
	24 hours	60 µg/m <sup>3</sup>
	Year	40 µg/m <sup>3</sup>
SO <sub>2</sub>	Hour	200 µg/m <sup>3</sup>
	24 hours	100 µg/m <sup>3</sup>
CO	8 hours	10 mg/m <sup>3</sup>
Benzene (VOCs)	Year	5 µg/m <sup>3</sup>
Particles (PM <sub>10</sub> )	24 hours	50 µg/m <sup>3</sup>
	Year	40 µg/m <sup>3</sup>
Particles (PM <sub>2,5</sub> )	Year	25 µg/m <sup>3</sup>
		8,5 µg/m <sup>3</sup> (EU-directive)
Ozone	8 hours	120 µg/m <sup>3</sup>

Environmental Quality Standard (EQS) values source: Naturvårdsverket (Swedish Environmental Protection Agency).

## Typical Size Range of Airborne Contaminants



µm = micrometre = one millionth of a metre

## Eurovent Certification of AAF

Eurovent is the official European association that certifies the performance of air filters rated and sold as ePM classes.

AAF is Eurovent certified for filtration efficiency, operating resistance and energy efficiency. It guarantees customers that the performance is independently validated and delivered as promised.

More information about Eurovent Certification and an overview with certified air filters of AAF: [www.eurovent-certification.com](http://www.eurovent-certification.com)

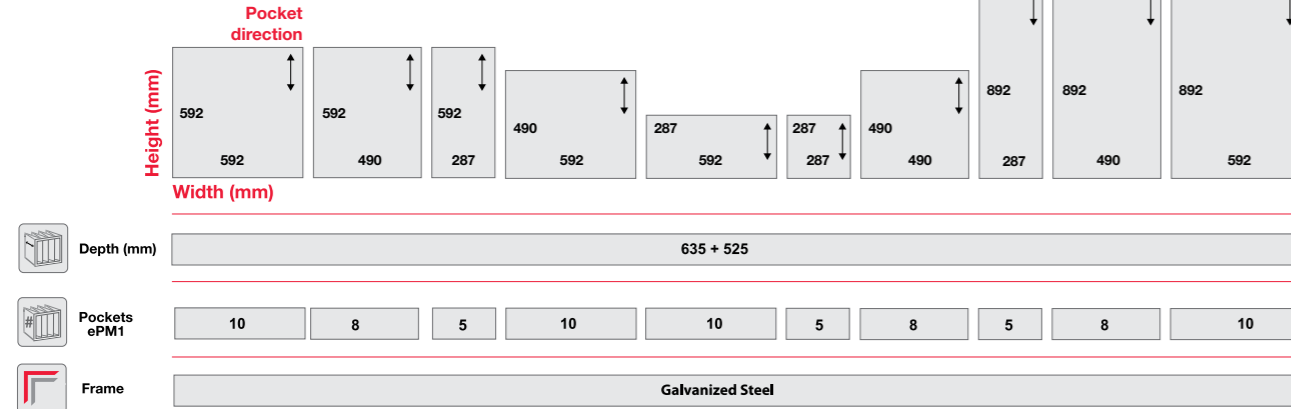


# DriPak® GC Filters

## Configurations

Filter media	Header		
Media	Microglass with activated carbon granules	Standard material	Galvanized steel 25 mm
Optional	Temperature		
Gasket	Neoprene (flat gasket)	Max. operating temperature	50 °C

## Dimensions



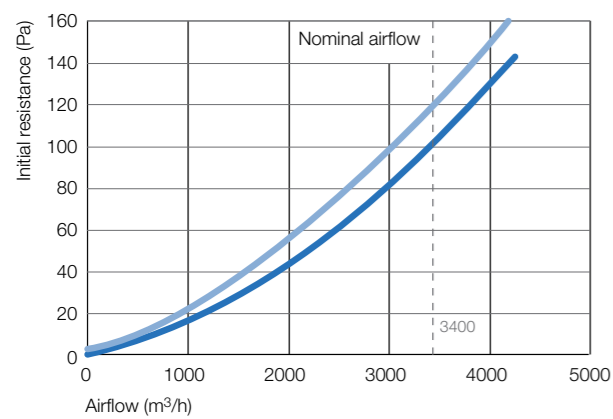
\* Special dimensions on request.

## Technical Data

Filter name	Dimensions (mm) 592 x 592 x Depth	Filter area (m <sup>2</sup> )	Number of pockets	Initial dp (Pa) @ 3400 m <sup>3</sup> /h	Prev. rated EN779:2012	Acc. to Eurovent 4/21:2018		ISO 16890 Classification	Average values		
						kWh	Energy Rating		ePM1 (%)	ePM2.5 (%)	ePM10 (%)
DriPak GC ePM1 60%	635	7,2	10	100	F7	1300	C	ePM1 60%	64	74	92
	525	5,9	10	120	F7	1500	D	ePM1 60%	64	74	92

Further dimensions are available on request. From January 1st 2018 filtration efficiency values are certified according to ISO 16890. Recommended pressure drop for filter placement: 250 Pa.

## Performance ePM1 60% with 10 pockets



DriPak GC - ePM1 60% 592x592x525 10 pockets / ePM1 60% 592x592x635/ 10 pockets



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## Airborne Contaminant Control for Urban Environments

**PARTICULATE AND GASEOUS FILTRATION SOLUTIONS**

