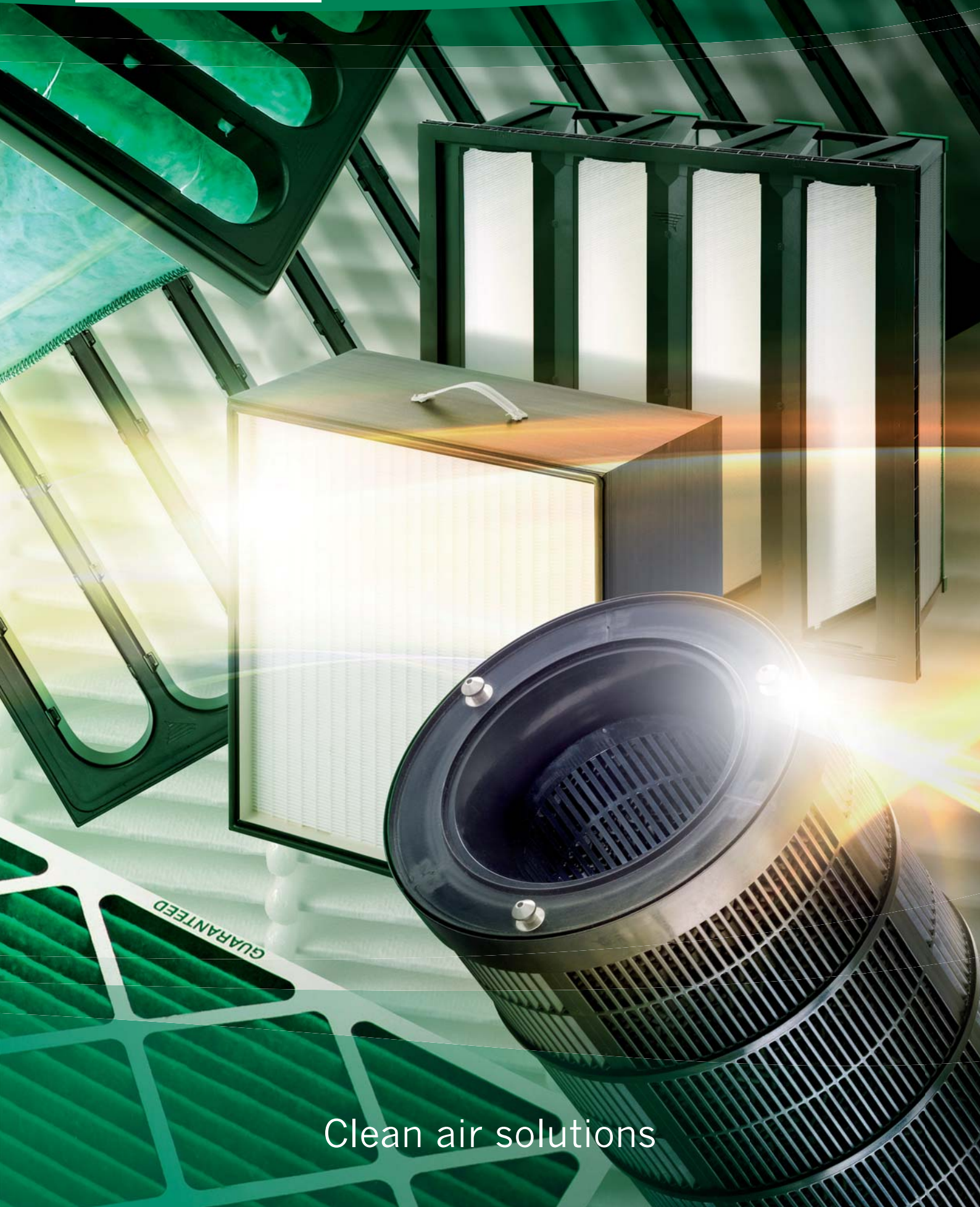


The logo for camfil, featuring the word "camfil" in a white, lowercase, sans-serif font. To the left of the text is a stylized graphic of three horizontal lines of varying lengths, suggesting motion or air flow.

大久生物科技股份有限公司
GRANDEVER BIOTECHNOLOGY CO., LTD.

Air Filtration Products & Solutions 2015

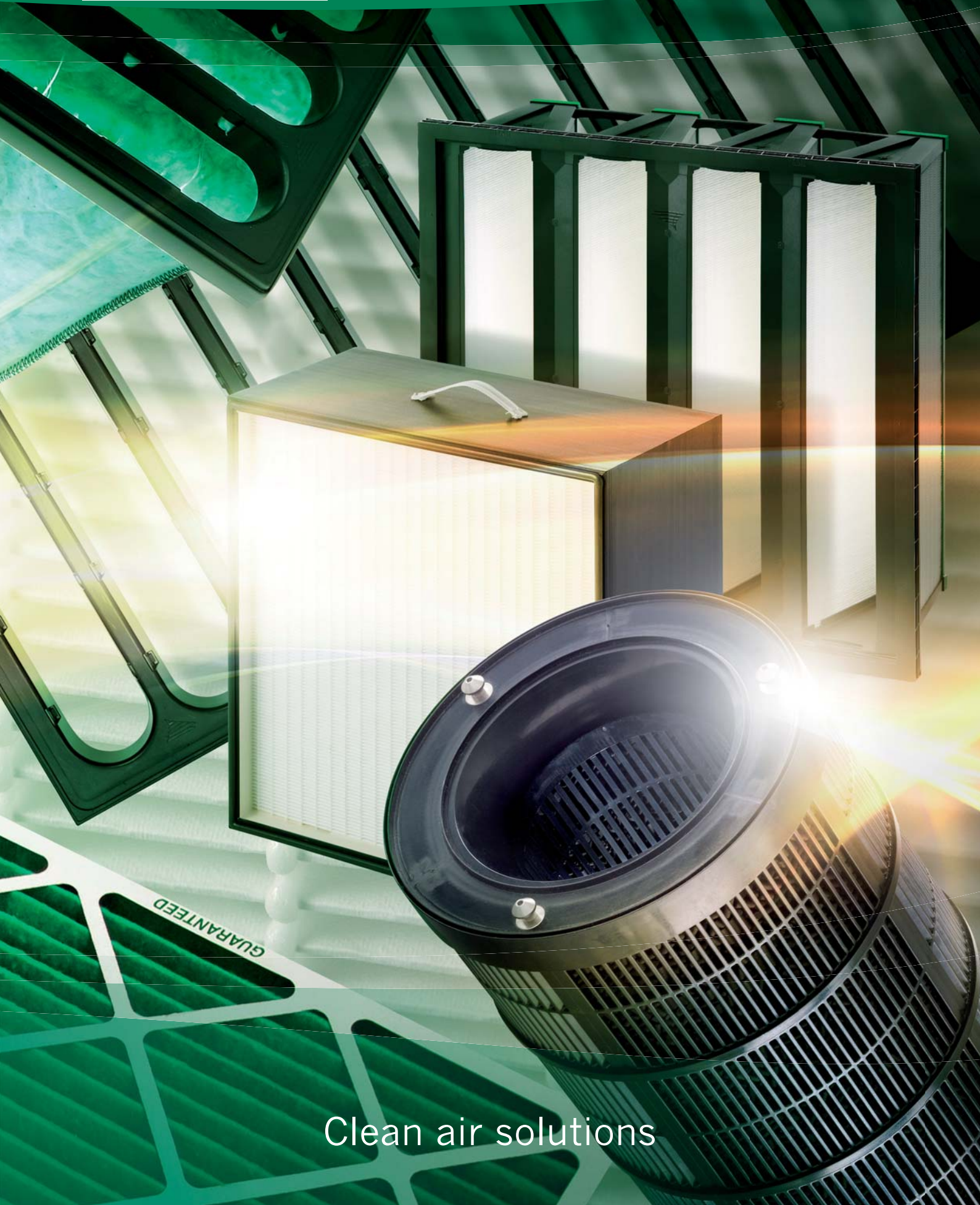


Clean air solutions

The logo for Camfil, featuring the word "camfil" in a white, lowercase, sans-serif font. To the left of the text is a stylized graphic of three horizontal lines of varying lengths, suggesting motion or air flow.

大久生物科技股份有限公司
GRANDEVER BIOTECHNOLOGY CO., LTD.

Air Filtration Products & Solutions 2015



Clean air solutions

Camfil Product Catalogue 2015

OVER 50 YEARS OF CLEAN AIR SOLUTIONS

In 1960, Sweden is about to start its nuclear program. Air filtration specialist Gösta Larson realizes that these new power plants need air filters of better quality than ever before. Using low quality air filters in a nuclear plant can quickly turn into a catastrophe. Gösta convinces the nuclear engineers to start using top quality filters and quickly wins a business contract. In 1963, he builds his first factory in Trosa, Sweden. Camfil is founded. Today, with more than 50 years of experience, Camfil delivers clean air solutions to customers and local markets all over the world. With high quality products, we are contributing to something that is essential to everyone – clean air for health, performance and well-being.

FILTERS FOR EVERY NEED

Comfort

- Comfort Ventilation
- Schools
- Offices
- Museums
- Airports

Clean processes

- Life Science
- Food
- Microelectronics
- Hospitals

Power systems

- Power Generation
- Compressors
- Oil & Gas

Air pollution control

- Mining
- Metal Working
- Life Science/Pharmaceutical

Oral Solid Dosage

- Containment
- Biosafety Labs
- Nuclear
- Chem/Bio Protection
- Healthcare

Industrial

- Warehouses
- Petrochemical
- Foam Industry
- Pulp & Paper

Information

Pre-Filtration: G2 to G4

Comfort Filters: M5 to F9

Clean Process Filters: E10 to U17

Molecular Filtration

Housings and Frames

Air Purifiers

Gas Turbine Filtration

APC and Dust Collectors

Index

Pre-Filtration, Class G2 to G4

30/30	22
AeroPleat Eco, Green & Metal	23
Pad Holding Frame	24
airMet Special Filter	25
airMet Double Filter	26
airMet Metal Filter	27
CamVane 100	28
Media Rolls	29
Fan Coil Filters	30
Hi-Cap	31
Hi-Cap XLS	32

Bag and Compact Filters, Class M5 to F9

City-Flo XL	35
Hi-Flo XLT	36
Hi-Flo XLS	38
Hi-Flo M	40
Hi-Flo A	41
Hi-Flo UF	43
Hi-Flo P	45
Hi-Flo TM	46
Cam-Flo	47
Basic-Flo	48
Basic-Flo Green	50
Opakfil ES	52
Ecopleat Eco	53
Ecopleat Metal	54
Ecopleat Green	55
M-Pleat Green	56
Airopac	57
Airopac High Temp	58
Hi-Flo ProSafe	59
Opakfil ProSafe	61
Hi-Cap ProSafe	62

HEPA / ULPA Filters, Class E10 to U17

Absolute™ C - CMM; CMT	64
Absolute™ DG	65
Absolute™ VG XL, XXL	66
Absolute™ VE XL, XXL	67
Absolute™ VE XL, XXL	68
Absolute™ VGHF	69
Absolute™ 1D	70
Absolute™ V ProSafe VGXL, XXL	71
Megalam MD, MX, MG	72
Megalam MD14, MX14, MG14 -1PU	73
Megalam MD14, MX14, MG14-GEL	74
Megalam MD15, MX15, MG15 -1PU	75
Megalam MD14/ME, MD15/ME, MX15/ME -1PU	76
Silent Hood filter MD14-HL	77
Termikfil 2000	78
Absolute™ 1FRK	79
Absolute™ 1FRKV	80
Absolute™ 1FRSI	81

Molecular Filtration

CityPleat	86
CityPleat Green	87
City-Flo	88
CityCarb	89
CitySorb	90
CamCarb CG	91
CamCarb CM	92
CamCarb Mounting Frames (Baseplates)	93
CamCarb PM	94
CamCarb VG	95

GigaPleat XPC/XPH	96
GigaPleat NXPP	97
GigaPleat NXPH	98
GigaPleat NXPC	99

Filter Frames and Housings

Absolute Filter Holding Frame	102
Universal filter holding frame	103
CamCube HF, filter housings for bag filters	104
CamCube AC, filter housings for HEPA filters	106
CamCube CC, filter housings for cylindrical carbon filter	108
FCBL-CC	110
FCBS-A	111
Pharmaseal-E top entry: full equipment	112
CamSeal: Optional Integrated Damper	113
CleanSeal top entry PU gasket: full equipment	114
CleanSeal Product Overview	115
Cambox	116
CamBox S	117
CamContain	118
CamSafe 2 - Connecting Ducts painted	119
CamSafe 2 - Safe change filter casing (BIBO)	120
PVC CASE VHE FILTERS 5 m3/h	122
PVC CASE VHE FILTERS 20-30-50 m3/h	123
PVC CASE VHE FILTERS 30 m3/h et 50 m3/h	124
METAL CASE VHE FILTERS 30-70 m3/h	125
METAL CASE VHE FILTERS 300 m3/h	126
CamHosp-R: Operating theatre recirculation air ceiling	127
CamFFU High Performance HP-EC	129
CamFFU Compact Solution CS-EC control onboard	130
CamFFU Integrated Solution IS-EC	131

Air Purifiers, Dust collectors & Gas Turbine Filtration

CamCleaner 300	134
CamCleaner 300 Concealed	135
CamCleaner 800	136
CamCleaner 2000	137
CamCleaner 6000	138
CITY M Air Purifier	141
30/30 GT	142
CamClose	143
Cam-Flo XMGT	144
Cam-Flo XLGT	145
Cam-Flo GT X7	146
CamGuard	147
Hi-Cap GT	148
CamGT 3V-600	149
CamGT 4V-300	150
CamGT Box Type Green II	151
Opakfil GT/GTX	152
Turbopac	153
Campulse GTC	154
Campulse GTD	155
CamPulse GT Polytech HE	156
Campulse EF	157
Tenkay GTC/GTD/PolyTech HE	158
Campulse CamBrane	159
Farr Gold Series®	160
Farr Gold Series® Camtain®	161
Zephyr IIITM Portables	162
HemiPleat® Gold Cone®	163
HemiPleat® Retrofit Cartridge for Competitor Collectors	164
DuraPleat DPJ 145	166
DuraPleat DPJ 156	167
DuraPleat DPJ 218	168
DuraPleat DPJ 325	169
DuraPleat DPD 325	170
HemiPleat® Gold Cone®	171
HemiPleat® Tenkay®	172

Quick Selection Guide

	FILTER GRADE	AIR FILTER SELECTION
PRIMARY FILTRATION	LOW EFFICIENCY PRIMARY	EN 779:2012 G2 ≥ 65% G3 ≥ 80% G4 ≥ 90%
FILTRATION FOR AIR CONDITIONING SYSTEMS	MEDIUM EFFICIENCY FINE MEDIUM	M5 ≥ 40% M6 ≥ 60% F7 ≥ 80% F8 ≥ 90% F9 ≥ 95%
FINAL FILTERS CLEAN ROOM FILTERS	VERY HIGH EFFICIENCY ULPA HEPA EPA	EN 1822 E10 ≥ 85% H14 ≥ 99,995% E11 ≥ 95% U15 ≥ 99,9995% E12 ≥ 99,5% U16 ≥ 99,99995% H13 ≥ 99,95% U17 ≥ 99,999995%
MOLECULAR FILTRATION	LOW TO VERY HIGH EFFICIENCY PRIMARY MEDIUM HIGH EFFICIENCY	ISO 10121 2 IN 1 SOLUTIONS COMPACT FILTERS CYLINDRICAL FILTERS CLEAN ROOM AMC FILTERS
FILTER HOLDING FRAMES AND CASINGS	LOW EFFICIENCY TO SAFETY PROTECTION HOUSINGS FRAMES CONTAINMENT SYSTEMS	MODULAR SOLUTIONS HOLDING FRAMES HOUSINGS TERMINAL FILTER HOUSINGS CONTAINMENT SYSTEMS MODULAR FILTRATION CEILING

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Caring for the Environment

“How will your filters help you to reduce the environmental impact of your installations?”

Camfil has been involved in air quality for over 50 years, and has set an example when it comes to the environment. It therefore has an obligation to provide its customers with practical assistance on green issues. With regard to complying with the law on waste disposal, Camfil is with you all the way; in designing products and services, Camfil shares your environmental concerns.

It is now widely acknowledged that air conditioning filters can be considered ordinary industrial waste, whereas filters used in environments containing potentially hazardous products (e.g. return air from clean rooms, spray booths and operating theatres) should be considered special industrial waste and must be disposed of by an approved route using accredited systems.

Please Note - your individual circumstances depend entirely on your processes and we recommend that you approach your usual waste disposal provider, who will be qualified to advise you on the matter.

In order to minimise waste, Camfil pay close attention to the life cycle of the product:

1. We make strenuous efforts to extend the lifespan of our filters and to optimise their performance, which means that you reduce your operating costs, the frequency with which you have to replace the filters and the cost of their disposal.

Just look at the large filter surface used in many of our products and remember large filter area is synonymous with long filter life.

2. We favour the use of recyclable or incinerable materials.
3. We are continually researching effective materials with low pressure loss, a parameter that has a direct influence on the energy consumed during the lifetime of the filter.
4. The Green CAMFIL range ensures that you can dispose of your used filters with less hassle and at lower cost. The use of plastics or cardboard lends itself to the incineration of used filters whilst ensuring compliance with all provisions of environmental law.
5. We minimise the weight of materials used in the construction of our filters which helps reduce the waste mass as far as possible when the filter reaches the end of its life.
6. In our ISO 14001 certified factories, we are phasing out the use of chloride solvents and hazardous products from our processes.



Follow up CFM

Conscious of the increasing importance attached by our customers to waste management, Camfil can support you and take charge of replacing and organising the disposal of certain used filters as part of its CAMFIL FILTER MANAGEMENT (CFM) programme. For more information and to find out whether this service might work for you, please contact us.



Would you like to reduce your energy outgoings?



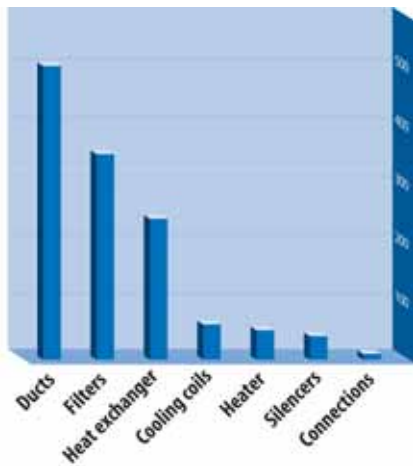
Economic optimisation of air filtration

The price of crude oil has more than doubled in recent years and the cost of electricity is rising throughout the world. The World Bank's Energy Group has predicted that total energy consumption is set to rise at the current rate for at least the next 50 years.

The cost of ventilation

Ventilating buildings, as we know, can be a very expensive business. The average energy cost of filters is around 30% of the total costs of the system. By choosing the right filter, for example the F7 for its efficiency and its very low average pressure loss, energy savings can be made whilst maintaining a high level of IAQ. When you consider that the air filter is the most inexpensive and simplest component to change, savings can be made quickly.

Relative Energy Consumption



Typical pressure loss

Typical pressure loss (Pa) in a ventilation system with 2 stage filtration

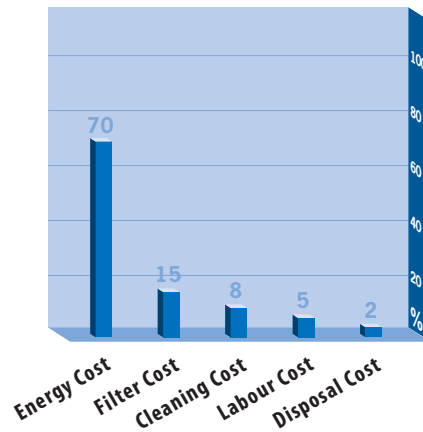
1Pa = 1 euro

A rule of thumb, for a typical installation running for half of the time over one year, is that one additional Pascal in pressure drop adds 1 euro per filter in extra energy cost.

A badly designed filter construction could add 50 Pascal compared to a well engineered filter, even if it claims to have the same efficiency. In other words it adds 50 euros to the annual energy bill, for every filter.

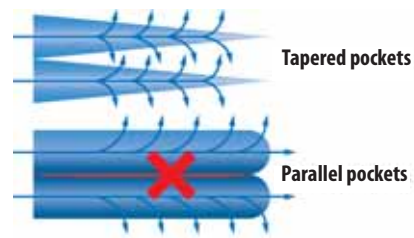
70% of the total cost comes from energy costs

Calculations show that energy normally accounts for 70% of the total cost of the life cycle of an air treatment system. Energy consumption is in direct proportion to the filter's average pressure loss.



Choosing the right filter saves energy

In order to optimise the lifespan of the filter and to reduce energy consumption, it is important to bear in mind the extent to which their configuration and their structure influence the average pressure loss.



✗ Blocked surface = high energy consumption

Software aimed at helping select the right filter = optimising energy costs

For over 40 years, Camfil has played a pioneering role in designing filters with low average pressure loss for all efficiency levels for air conditioning and ventilation systems. Camfil was the first filter manufacturer to develop sophisticated software that calculates the overall cost for the complete life cycle of air filters. As part of our continuous improvement, this software has evolved over time and it uses real life data collected from numerous tests in real use conditions. This enables us to calculate the pressure loss of the filter and its actual lifespan, rather than relying on theoretical calculations.

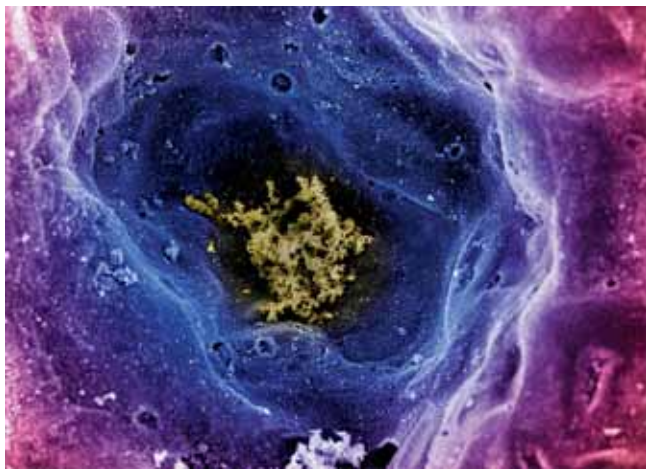
For more information and assistance, please contact your nearest branch of Camfil.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Indoor Air Quality (IAQ)

Environmental health is becoming a central concern at national and international levels. Indoor Air Quality (IAQ) is an area that focuses on providing a comfortable and healthy indoor environment which is important to the well being of people. We spend 80% of our time in indoor spaces and, as such, the issue of IAQ is a key aspect of public health, especially since this affects the entire population, particularly the most sensitive and vulnerable.

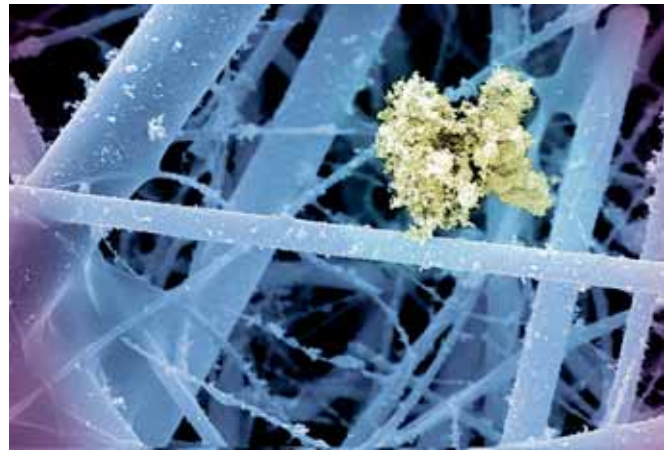
The industrialised world is a very different place compared to 50 years ago and one major difference is that the air we breathe is now more heavily and more diversely polluted than at any time in the past. Although natural sources of pollution exist, the greater concerns arise as a result of mans own activities which have increased both the amount and the complexity of pollutants found in the atmosphere. There are tens of thousands of synthetic chemicals (not found in nature) made today with an estimated annual production rate in excess of a billion tonnes. These chemicals are released to the atmosphere during manufacture use and can subsequently travel vast distances. They are an inevitable part of our lives.



Atmospheric pollution can be categorised in two different ways. The simplest is measurement (a physical categorisation) to distinguish gaseous pollutants from solid, dust and particulate pollutants. The second is based on the origin of pollutants and is divided into primary and secondary pollutants.

Primary pollutants are substances present in the atmosphere, in the form in which they are emitted. Of these pollutants, some are especially prominent:

Sulphur dioxide (SO₂) emitted by certain industrial processes, such as paper-making and refining, and in particular by the use of sulphurous fossil fuels. SO₂ is one of the main causes of acid rain on account of its transformation in the atmosphere into sulphuric acid (H₂SO₄). Nitric oxides (NO_x), and in particular nitrogen dioxide (NO₂), which is usually emitted from the burning of fossil fuels (particularly vehicles), contribute towards the formation of ozone in the atmosphere. Polycyclic aromatic hydrocarbons are emitted by the incomplete burning of fuels or carbon, which can usually be found in the air, linked to particles. Some of them are known to be highly carcinogenic.



Secondary pollutants are substances whose presence in the atmosphere is the result of chemical transformations related to the interaction of compounds known as precursors. Ozone is the main secondary pollutant, it is formed as a result of a photochemical process in the presence of certain primary pollutants (carbon monoxide, nitric oxide and volatile organic compounds). This is a gas that is naturally present in the atmosphere in low concentrations at high altitude. At low altitude, on the other hand, the development of the concentration is primarily the result of human activity. Sulphuric acid and nitric acid form in the atmosphere as a result of humidity from sulphur dioxide and nitric oxide respectively.

Solid pollutants usually in the form of small (fine) particles are very important and from a cleanliness point of view, these particles deserve particular attention. These are capable of acting as vectors to other substances, such as carcinogenic polycyclic aromatic hydrocarbons, which is particularly worrying given the capacity of the finest particles (< 1µm) to find their way into the lungs and even to penetrate into the bloodstream. Effective solutions aimed at combating such particle pollution are now widely known. The development of the main standards and recommendations governing the manufacture and use of modern air filters is clearly geared towards much higher filtration levels than have been permitted in the past

Our range of 'CITY' filters has been developed with the sole purpose of combating atmospheric pollution and its major components.

CITYCARB and **CITYFLO** combine particulate filtration with pollution and odour filtration. They are suitable for any new installation and can be readily installed to upgrade and improve systems currently equipped with standard filters.

With its higher molecular adsorption, **CITYSORB** is ideal for highly polluted urban environments. **CITYSORB** must be fitted in conjunction with a particulate filter above F7 efficiency, **HIFLO** or **OPAKFIL** type.

Energy Efficiency Classification

The way of comparing air filters.

At last, buyers of air filters will find it a lot easier to find the right filter—regarding both energy efficiency and indoor air quality. Eurovent's new, objective energy efficiency classification has now been implemented. Now all air filters can be graded from A+ to E – A+ for the lowest energy consumption and E for the highest. The classification is based on EN779:2012 and will give you a good understanding of annual energy consumption, initial efficiency and minimum efficiency. Higher demands. As the price of energy increases and the demands of reducing CO2 emissions get tougher, the energy consumption related to air filters has become the focus of attention. Currently, air filters are classified only by their average efficiency. The new energy classification is far more precise.

The standard.

The energy consumption of air filters can be determined as a function of the volume flow rate, the fan efficiency, the operation time and the average pressure drop. Due to the dust loading during operation, the pressure drop of an air filter is constantly increasing. The related energy consumption during a certain period of time can be calculated from the integral average of the pressure drop over this period of time.

Put your supplier to the test.

Many suppliers do not test their filters properly, making it impossible for customers to compare different brands. At Camfil, we test all our filters to guarantee a high standard of quality. Does your air filter supplier have what it takes?

- * Is the supplier certified by Eurovent?
- * Are there labels on all boxes?
- * Are all tests based on EN 779:2012?
- * Is there a test protocol for validation?



Calculation and classification.

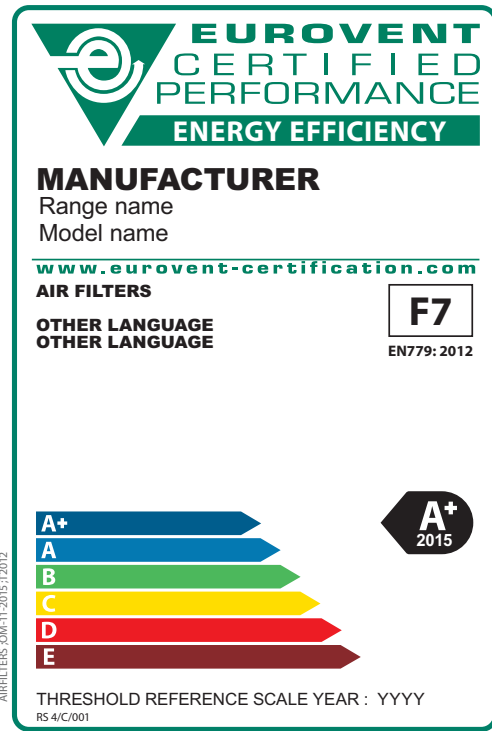
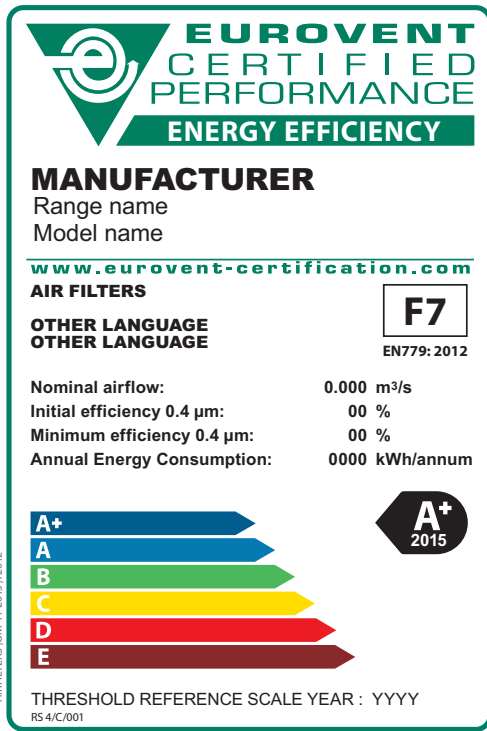
The standard measures both filtration efficiency and pressure drop as a function of dust loading. A representative energy consumption level is calculated using the mean pressure drop difference averaged over the course of dust loading. On the basis of these figures, the energy performance of a filter over an operating period of one year is simulated in a laboratory. This representative energy value is used for a classification of air filters into energy classes.

$$W = \frac{q_V \cdot \Delta \bar{p} \cdot t}{\eta \cdot 1000}$$

The calculation used in the energy efficiency classification by Eurovent document 4/21 - 2014.

Filter class 2015	M5	M6	F7	F8	F9
ME	-	-	ME ≥ 35%	ME ≥ 55%	ME ≥ 70%
	M _M =250 g ASHRAE			M _F =100 g ASHRAE	
A+	0 – 450 kWh	0 – 550 kWh	0 – 800 kWh	0 – 1000 kWh	0 – 1250 kWh
A	>450 kWh – 600 kWh	>550 kWh – 650 kWh	>800 kWh – 950 kWh	>1000 kWh – 1200 kWh	>1250 kWh – 1450 kWh
B	>600 kWh – 700 kWh	>650 kWh – 800 kWh	>950 kWh – 1200 kWh	>1200 kWh – 1500 kWh	>1450 kWh – 1900 kWh
C	>700 kWh – 950 kWh	>800 kWh – 1100 kWh	>1200 kWh – 1700 kWh	>1500 kWh – 2000 kWh	>1900 kWh – 2600 kWh
D	> 950 – 1200 kWh	> 1100 kWh – 1400 kWh	> 1700 kWh – 2200 kWh	> 2000 kWh – 3000 kWh	> 2600 kWh – 4000kWh
E	>1200 kWh	>1400 kWh	>2200 kWh	>3000 kWh	>4000 kWh

Energy Efficiency Classification



Eurovent Energy Efficiency label

The new labeling system will be displayed on standard filter boxes. There are two different ways of execution.

1. Full size 592x592, to EN 15805

- Filter class
- Nominal air flow rate, m³/s
- Initial efficiency, % (F7-F9)
- Minimum efficiency, % (F7-F9)
- Annual Energy Consumption, kWh/annum
- Energy class

Certified values are to be find at: www.eurovent-certification.com

Other "family" sizes of standard filters

2. Other "family" sizes of standard filters

- Filter class, according to 592x592
- Energy class, according to 592x592

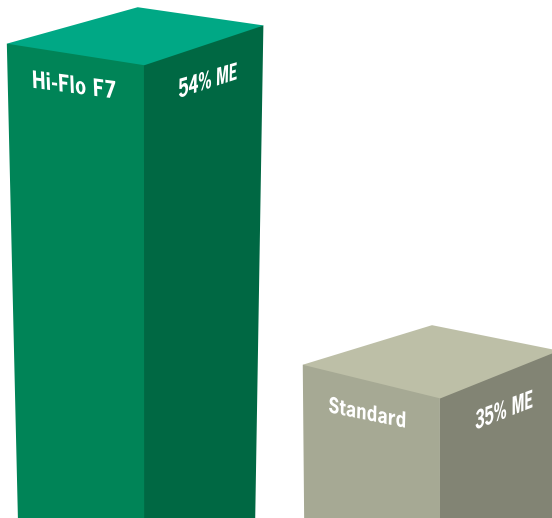
Width	Height
490	592
287	592
287	287
592	287
592	490
490	490

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

EN 779:2012

The standard forces our competitors to be better – but not as good!

At Camfil, we have always put every effort into improving indoor environments. Thus, no one is more pleased than us that, since 2012, a new air filter standard imposes tougher requirements. Unfortunately, the requirements are not as tough as we would have liked. For example, our Hi-Flo XLT7 (a class F7 filter) has a minimum filtration efficiency of 54 percent. For an F7 filter, the new standard requires no more than 35 percent. However, that does not meet the quality levels we have set for ourselves. Indeed, our development of the market's most efficient, energy optimised filters will continue.



What does EN 779:2012 do?

The European standard for air filters (EN779:2012) is purposed to classify air filters based on their lowest filtration efficiency. This latter is also referred to as minimum efficiency (ME). The standard is an initiative that we welcome and a step towards better indoor environments.

The standard helps to eradicate a number of problems. One of these is presented by electrostatic charged synthetic filters. While such filters can demonstrate good initial filtration efficiency, they discharge extremely rapidly. This entails a considerable deterioration in their air cleaning ability.

Unfortunately, one result of the foregoing is that far too many European properties are now using F7 class filters that have ME values of between 5 and 10 percent. This means that as much as 90 to 95 percent of the contaminants in the outdoor air find their way into buildings and pollute the indoor environment.

By basing classification on ME value, the standard forces these filters out of the market. At the same time, it will contribute to the development of synthetic filter materials offering considerably higher particle separation. Regrettably, the price for this will include higher pressure drops and increased energy consumption.



Not all filters are the same – even when they are in the same class!

The problem with the new classification is that, although the worst filters will vanish from the market, there is room for good filters to be made worse. Although energy savings can be achieved by having the lowest possible pressure drop, such development could be retrograde. For example, with 0.4 µm particles, our Hi-Flo XLT7 (class F7) filter has an ME value of a full 54 percent. However, for classification as an F7 filter, the standard requires no more than 35 percent.

As we have already made clear, we will not be lowering the efficiency of

our Hi-Flo filters. That would result in an approximately 40 percent worsening of air quality. Camfil works very hard all over the world to make people realize that our indoor air quality and our human health is the first priority when comes to clean the air. When that is secured you find the most energy saving air filter for the purpose. However, there is a risk that other manufacturers will not think the same way. Instead, they may see the standard as an opportunity to reduce pressure drop and, thereby, energy consumption. This will result in poorer air quality.

Classification of air filters¹⁾

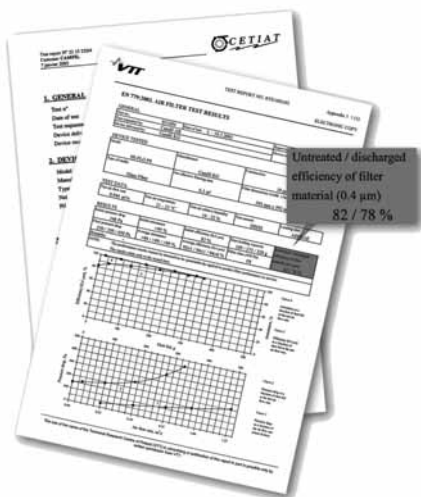
Group	Filter Class	Final pressure drop (test) Pa	Average arrestance (Am) of synthetic dust %	Average efficiency (Em) for 0.4 µm particles %	Minimum efficiency ²⁾ for 0.4 µm particles %
Coarse	G1	250	50 ≤ Am < 65	-	-
	G2	250	65 ≤ Am < 80	-	-
	G3	250	80 ≤ Am < 90	-	-
	G4	250	90 ≤ Am	-	-
Medium	M5	450	-	40 ≤ Em < 60	-
	M6	450	-	60 ≤ Em < 80	-
Fine	F7	450	-	80 ≤ Em < 90	35
	F8	450	-	90 ≤ Em < 95	55
	F9	450	-	95 ≤ Em	70

*NOTE

1) The characteristics of atmospheric dust vary widely in comparison with those of the synthetic loading dust used in the tests. Because of this, the test results do not provide a basis for predicting either operational performance or service life. Loss of media charge or shedding of particles or fibres can also adversely affect efficiency.

2) Minimum efficiency is the lowest of any of the following three values: initial efficiency, discharged efficiency or efficiency throughout the test's loading procedure.*

Eurovent Certified Performance



Air filter certification You can count on us!

Camfil, in conjunction with the main independent test laboratories in Europe, is committed to bringing you the highest levels of transparency with regard to the new test protocols for air filters.

The European Committee for Standardisation has recently published a new standard on "Particulate air filters for general ventilation - determination of filtration performance". One of the aims of this new standard is to detail the in-situ performance of an air filter.

This new test protocol provides accurate data on the effectiveness of your air filters operating under real life conditions. Please always specify filters tested in accordance with EN779:2012. Your Camfil representative is available to explain this standard in detail should you require it - you can count on us!

Air filter performance

At Camfil we are going a step further to ensure the best possible performance for our customers. The European ventilation industry organisation Eurovent, in collaboration with several European air-filter manufacturers, has developed a certification programme to guarantee that our products live up to our promises.

The key elements of the programme are that:

- **Published data must be correct**
- **The products must comply with the EN779:2012 standard**
- **Filters must be tested by independent laboratories - SP in Sweden and VTT in Finland**
- **The test laboratories must be ISO 17025 certified**
- **We as manufacturers must be quality certified to ISO 9000 or a corresponding standard**
- **Each year, Eurovent selects, at random, four new filters from our range for inspection**

Read more on Eurovent's website: www.eurovent-certification.com

Eurovent's certification of our fine-dust filters means that you can rest assured that we live up to the performance requirements and the data we print in our official documentation. Our fine-dust filters are tested by independent laboratories selected by Eurovent and that means security for you. Select Camfil air filters with Eurovent certification - its guaranteed!

Independent test results

Our Eurovent certification covers bag filters, compact filters and panel filters in classes M5-F9, tested to EN779:2012. The initial pressure drop must remain within the tolerance levels set out in EN779:2012.*

All filters that we officially market in brochures or on our website in these filter classes are covered by the certification. Each class contains a range of product groups:

- **Same filter media/material (such as fibreglass)**
- **Same basic design (such as bag filters, compact filters etc)**
- **Same or lower air speed/net filter area**
- **Same filter class: M5, M6, F7, F8, F9**
- **Published data must be available, specifying the model, type, filter material, filter class as per EN779:2012,**
- **Nominal airflow and initial pressure drop at nominal airflow.**

The filters are tested at independent test laboratories - in Sweden, the Technical Research Institute of Sweden, SP, in Borås; in Finland, VTT in Espoo. These are the only laboratories in Europe that are accredited to ISO 17025.

The test laboratories are not told which company's products they are testing, but are only given a number that Eurovent assigns to each individual filter.

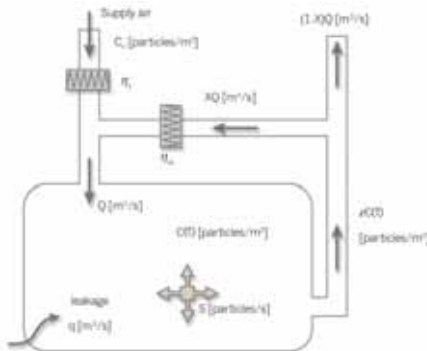
*) Tolerance levels for initial pressure drop defined in EN779:2012: $+(10\%+Mt)$ or $+(10Pa+Mt)$, whichever is highest. $Mt = 5Pa$ (tolerance level defined in EN779:2012)

CREO Software (Clean Room Energy Optimization)

An overview of Camfil CREO Software

- Clean room theory and design
- Human particle generation calculations
- LCC (Life Cycle Cost) calculations
- Steady state condition calculations for various designs
- Air handling system design specific to the selection of air filters
- Latest and historic clean room standards
- Cleanliness Classification Report
- Total Cost of Ownership Reports
- Specification Generator

Clean Room Classification Report with Steady State calculation Clean rooms play a vital role in multiple industries, supporting product innovation and the latest developments in cutting-edge technologies. They are also extremely challenging to design, with very high demands for **air cleanliness** and an increasing demand from owners and operators to **reduce escalating energy costs**. As the air cleanliness level is dependent on various factors - the room's supply air, **contamination sources**, and the **design of the ventilation system - sophisticated computer-aided analysis** is often better suited to estimate cleanliness, and ensure that users end up with the facilities their application requires.



Comprehensive Mathematic Model for Particulate Contamination

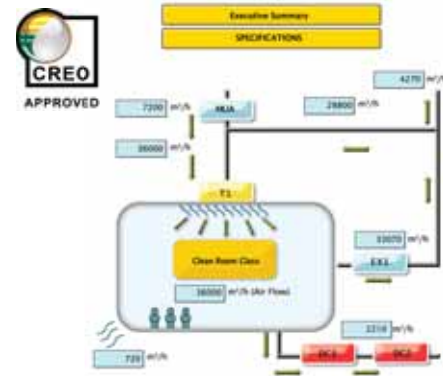


Clean Room Classification Report with Steady State calculation

Camfil, the world's leading provider of air filters is widely recognized as the leading clean air solutions supplier globally. In another industry first, they have released this **new software** to support end users and designers to optimize air filtration selection for the most sustainable clean rooms:



Running costs and Contamination Parameters



Output summary

Key features of CREO

CREO software features a unique up-to-date simulation engine based on clean-room theory and design. Users calculate **human particle generation**, perform **calculations of steady-state conditions** for different designs, and select the appropriate air handling system design and **air filters**. As reference, CREO also contains the **latest and historic clean room standards** for the life sciences and microelectronic industries, including comparisons between ASHRAE and EN 779 2002/2012.

CREO is a very quick and accurate tool for designers to select the required filters. Comparison up to three different solutions can be obtained with just a few inputs. The end result is customized clean room application that also allows the user to calculate the life cycle cost and cleanliness class for different clean room configurations and optimize their energy consumption.

Outputs, in friendly standard file format, from CREO are:

- **TCO Executive Summary**
- **Steady State Calculation Report**
- **Complete and Detailed TCO Calculation Report for all System Components**
- **Extensive Engineering Specifications**

The CREO manual & software development was driven by Sean O'Reilly, Camfil's Global Director for the Clean room segment, with support from a team of internal experts in Camfil corporate R&D & marketing in Sweden, Malaysia & the USA. These tools along with another recently published booklet named, "Life Sciences Industry Insights" demonstrate Camfil's world-renowned expertise in air filtration applications for cleanroom environments.

For further information and software simulation, contact your nearest Camfil office or representative.

ATEX

ATEX Directive: Explosive atmospheres

Two important new safety directives have entered into force in Europe. These new regulations come under the title of ATEX Directives and apply to manufacturers, suppliers and users of equipment intended for use in potentially explosive atmospheres (dangerous areas). An explosive atmosphere is defined as a mixture with air, under atmospheric conditions, of hazardous substances in the form of gases, vapours, mists or dusts in which, after ignition has occurred, combustion spreads to the entire unburned mixture. The 99/92/EC (ATEX 137) Directive, known as the 'User Directive' requires employers to protect their employees from the risks posed by explosive atmospheres. The 94/9/EC (ATEX 95 or ATEX 100A) Directive on 'Equipment and protective systems intended for use in potentially explosive atmospheres' covers electrical and non-electrical products intended for use in hazardous places (gases, vapours, mists). Conformity with the ATEX Directives has

been a legal requirement in all EU Member States since 1 July 2003. In biopharmaceutical applications, some procedures must use ATEX-classified filters in certain places (please see table). Camfil in Europe has developed HEPA filters and ATEX accredited housings for use in biopharmaceutical installations in order to prevent electrostatic dangers caused by gas or dust in an ATEX area. Camfil has developed specific versions of ATEX for most filters and housings used in biopharmaceutical installations in order to prevent electrostatic dangers caused by gas or dust in an ATEX area. Camfil's ATEX solutions are entirely certified in accordance with the requirements of the ATEX Directives with the appropriate EX marking, the ATEX conformity statement and the instructions for use.

Key to the table:

Definition of ATEX areas and corresponding product categories.
Definitions of areas

Gas	Dust Areas	Definitions	Category ATEX	Typical suitability of place
0	20	Place where an explosive atmosphere is permanently present	1G 1D	Equipment adapted to 0 areas Equipment adapted to 20 areas
1	21	Place where an explosive atmosphere is probable occasionally under normal operating conditions	2G 2D	Equipment adapted to 1 areas Equipment adapted to 21 areas
2	22	Place where an explosive atmosphere is improbable under normal operating conditions, but, where applicable, only lasts a short time.	3G 3D	Equipment adapted to 2 areas Equipment adapted to 22 areas

All Camfil ATEX air filtering solutions

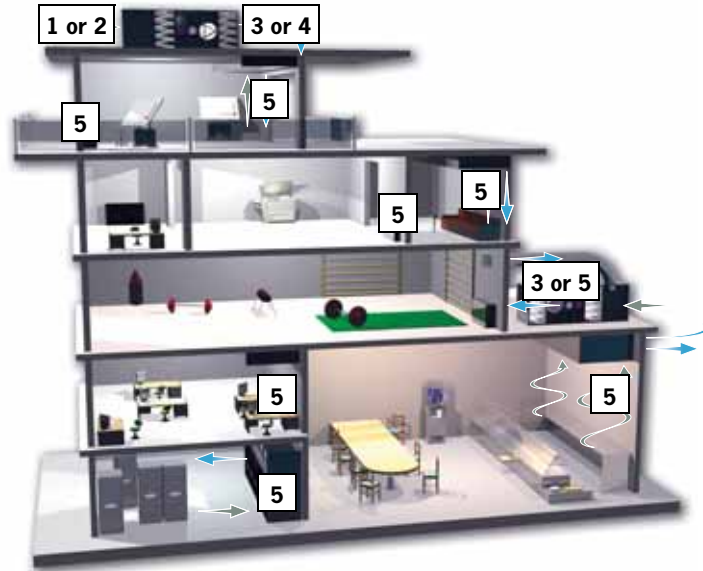
All Camfil ATEX air filtering solutions are certified for use in explosive gas atmospheres (Classes 1 and 2) and explosive dust atmospheres (Classes 21 and 22). They comply with European Standard EN 13463-2001 Annex C Non-electrical equipment for potentially explosive atmospheres, as attested by the conformity statement attached to these products.



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Public buildings

Camfil ventilation filters prevent airborne particles from reducing air flow volumes in HVAC systems. During their lifetime, these filters keep air-handling systems clean so they can perform in accordance with design parameters. These same filters also help safeguard people's wellbeing and health. Camfil's comfort air filters are commonly used in for example office buildings, schools, conference centres, shopping malls.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



1. Hi-Flo



2. Opakfil ES



3. Citycarb



4. City-Flo

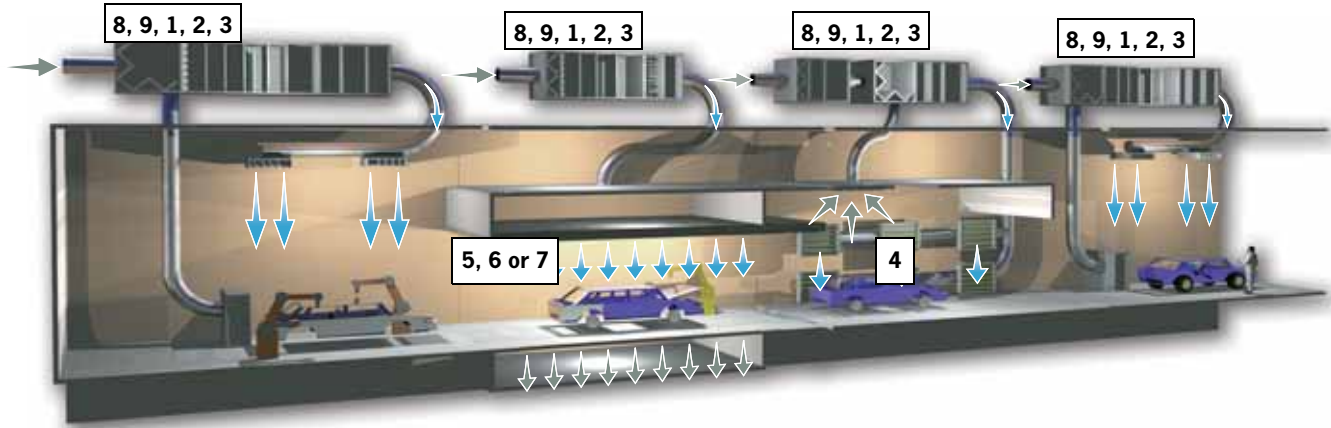


5. Ecopleat

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Automotive

Few industrial applications demand such a clean working environment as paint facilities. Paint spraying facilities require a constant supply of fresh air for hygiene and safety reasons. We currently provide clean air and services to many major automotive plants throughout the world. We provide the best possible cost effective clean air solutions, customized and performance-optimized to meet your demands. Supplied and delivered exactly according to your needs – with Camfil.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



1. Hi-Flo XLT



2. Basic-Flo



3. Opakfil ES



4. Airopac HT/Panolair HT



5. CDM-600



6. Panolair



7. Camgrid SM 20



8. 30/30



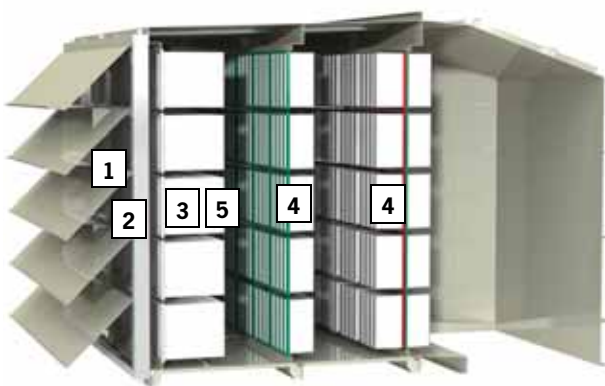
9. Hi-Cap

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

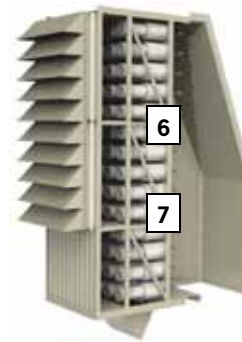
Power Systems

Clean air is vital to all combustion processes. The prime function of an inlet filter system is to protect the gas turbine from pollutants in the air, as particles entering can cause costly damages like erosion, corrosion and fouling. Erosion is a permanent degradation, mainly caused by coarse particles, while corrosion is caused by salt in combination with sulphur, and high temperatures. Smaller particles cause fouling of turbine blades, and thus affecting performance negatively. A secondary effect is an increase in temperatures, as heat transfer effectiveness is reduced, and ultimately the life of the hot section. Effective capture of particulate and airborne salt is therefore of vital importance for long and efficient operation. If not removed by the inlet system, particles will force operators to more frequently water wash the compressor, either by unnecessary on-line washing or during costly shut downs.

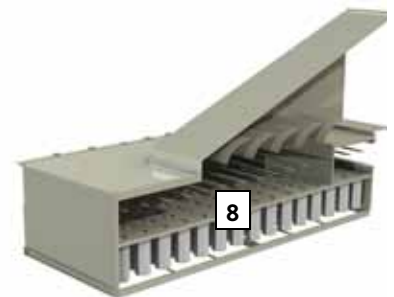
It is also important to understand the complexity of differentiating air filters. Most air filters remain in a system for months or even years. During this time, the filter will experience several environmental variations like changes in temperature, humidity, airflow velocity and particle load. To prevent this, and make sure our filters withstand the severe real life conditions once in operation; all GT filters are being developed and tested both at our own brand new Tech center, or at a third party company. For your best choice and solution, please contact your local Camfil-office for consultation, recommendation and calculation.



Static Filter Systems



Pulse Filter Systems



Tenkay Pulse Filter Systems

These are general recommendations for gas turbine air inlet systems. For consultation and details, please contact your nearest Camfil office.



1. CamVane 100



2. CamClose



3. Cam-Flo XMGT/XLGT



4. CamGT



5. Cam-Flo GT / CamGuard



6. CamPulse GTC/GTD



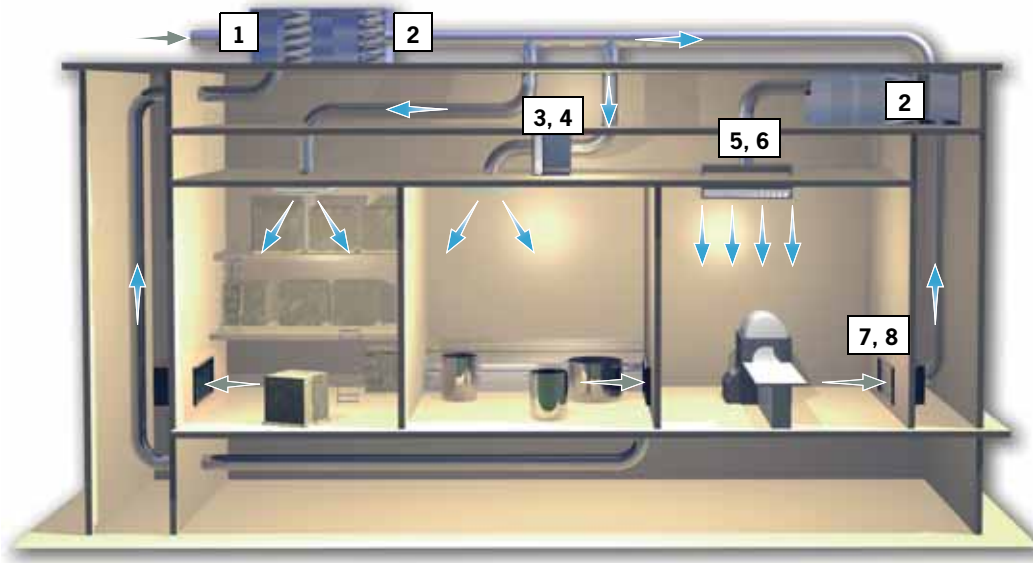
7. CamPulse CamBrane



8. Tenkay

Food and beverage

Beverages protecting human health is a major concern for governments throughout the world. In France, for instance, the National Agency for Food Health and Safety (AFSSAL) can recommend to the authorities that the requisite health policy measures be taken. To prevent the air conditioning system from becoming a microbe nest, temperature and humidity must be controlled and accumulated organic matter removed, as clogged exchangers provide good support for the development of microorganisms. Talk with the experts in Clean air solutions – Camfil.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



1. Opakfil ES



2. Cam GT



3. Absolute VG



4. FCBL Class C



5. CleanSeal



6. Megalam ME



7. Sofdistri Reprise



8. Ecopleat

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

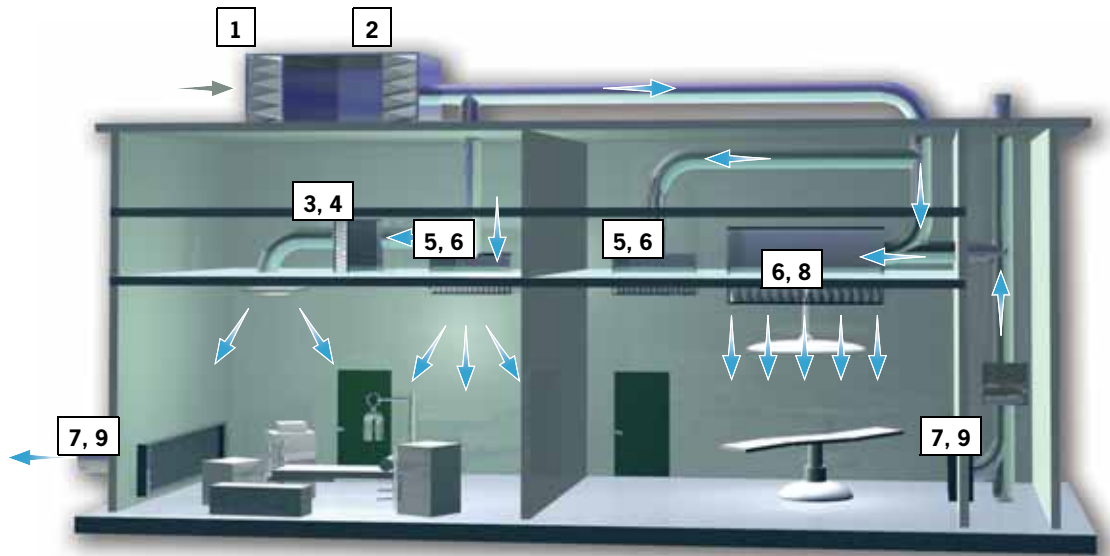
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Hospitals

Nowhere is air filtration more important than in health care facilities. Air filters offer excellent protection from airborne diseases in health care facilities, provided they form part of an overall air quality control programme. Camfil superior components include air filters, air filter housings or holding frames, air changes supplied to the conditioned space, temperature and humidity control, outside air introduction and appropriate control of air flow to protect visitors from undue exposure.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



1. Hi-Flo F7



2. Opakfil ES



3. Absolute DG



4. FC-A



5. CleanSeal



6. Megalam MD14



7. Ecopleat



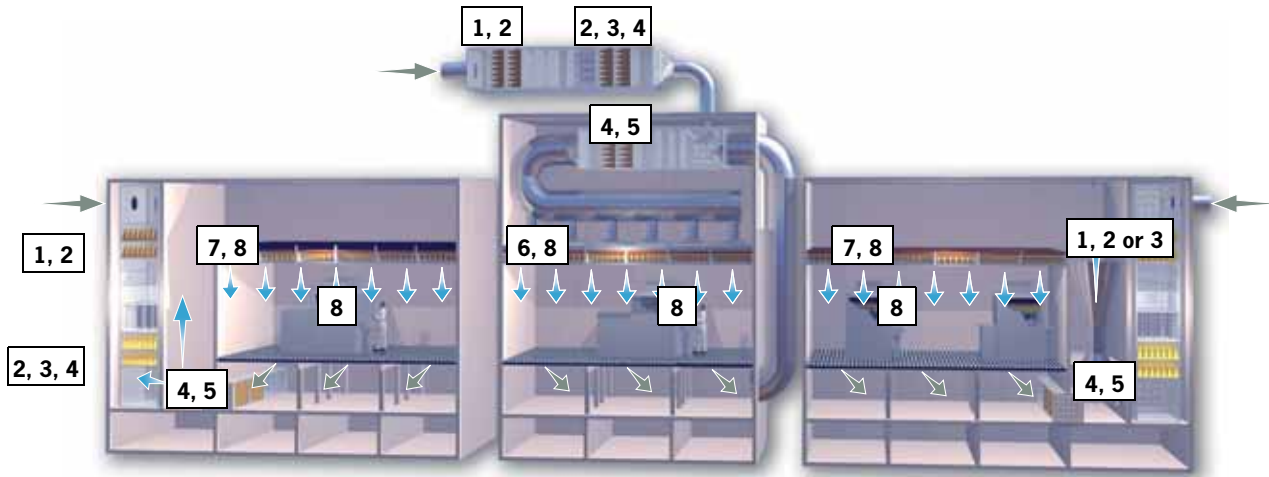
8. CamHosp 2



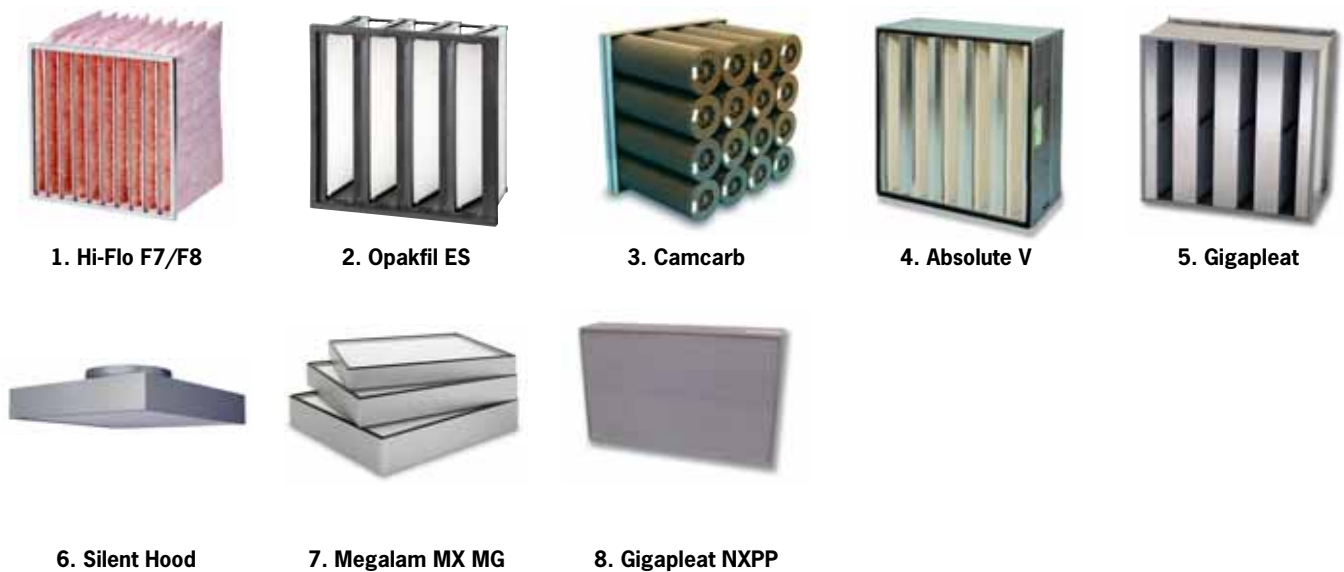
9. Sofdistri Reprise
on request

Microelectronics

Advanced production methods often require very clean air, and in many cases these requirements are certain to increase. Camfil is recognized as the leading supplier of high efficiency filtration products for the microelectronics industry. HEPA/ULPA filters are produced within controlled environments in our ISO 9000-certified plants. Our large production capacity ensures the availability of our products at all times throughout the world.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

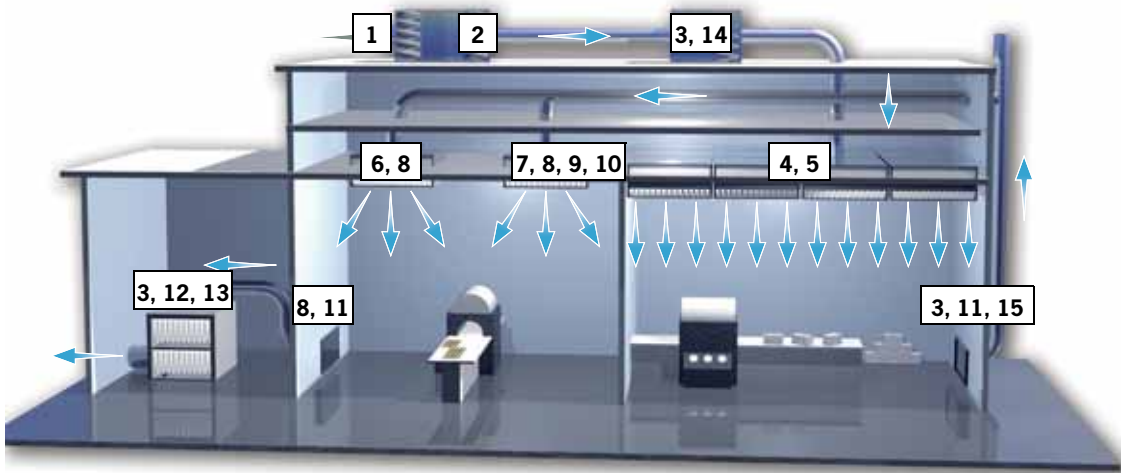
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Life Science

For the past forty years we have been a leading supplier of air filtration products and services to the Bio-Pharma Industry. Many of our clients have multiple facilities located around the world. Camfil is viewed by many of the largest Pharmaceutical manufacturers as a partner and well positioned to support their air filtration demands on a local and global basis.



These recommendations are based upon existing criterion as published by cognizant authorities, or best practice, based upon published data. For your specific application, contact Camfil for a detailed solution for your needs.



1. Hi-Flo XLT 7



2. Opakfil ES



3. Absolute VG



4. CamGrid



5. Megalam



6. Pharmaseal



7. Softdistri Grille



8. Megalam MD



9. CleanSeal



10. Megalam T Green



11. Sofdistri Reprise



12. CamSafe 2



13. Airopac/Opakair



14. FCBL-A Classe C



15. Ecopleat M6



Summary Pre-Filtration: G3 to G4



Pleated Filters
30/30
Page 22



Pleated Filters
AeroPleat Eco, Green & Metal
Page 23



Pad Filters
Pad Holding Frame
Page 24



Metal Panels
airMet Special Filter
Page 25



Metal Panels
airMet Double Filter
Page 26



Metal Panels
airMet Metal Filter
Page 27



Metal Panels
CamVane 100
Page 28



Media Rolls
Media Rolls
Page 29



Fan Coil Filters
Fan Coil Filters
Page 30



Primary Bag Filters
Hi-Cap
Page 31



Primary Bag Filters
Hi-Cap XLS
Page 32

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

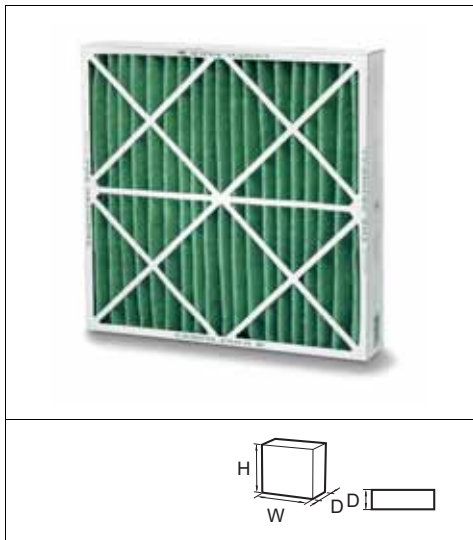
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Pleated Filters

30/30



Advantages

- Water resistant cardboard frame
- Conception with girders/ crossbars
- Diagonal stiffener stuck to media to keep the spacing of folds, protect and maintain the filter
- Fully supported media bonded onto a wire support grid
- Rounded pleats for a maximum capacity of dust retention and facilitate airflow through the media
- Replaceable filter media

Application: Primary filter for air conditioning systems.

Type: High performance disposable pleated panel filter.

Case: Rigid water resistant cardboard.

Media: Mixture of cotton and synthetic fibre.

EN779:2012 efficiency: G4.

Gravimetric efficiency: 92%.

Recommended final pressure drop: 250 Pa.

Temperature: 70°C maximum in continuous service.

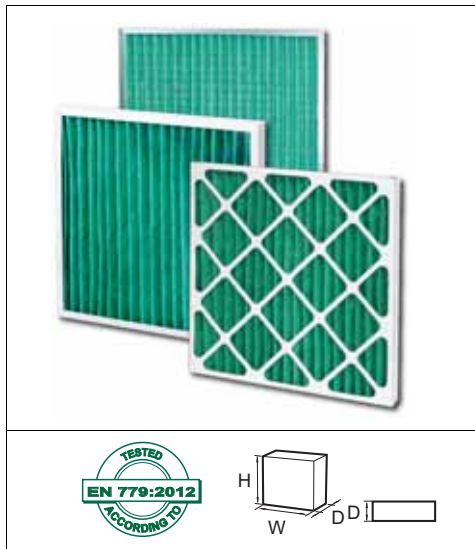
Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.

Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure ² drop Pa	Media area m ²	Unit weight kg	Unit volume m ³
24241	G4	594	594	23	2600	65	0,83	0,5	0,01
24242	G4	594	594	48	3420	70	1,64	0,78	0,02
24244	G4	594	594	98	4140	90	2,56	1,45	0,04
12242	G4	289	594	48	1710	70	0,79	0,4	0,01
16202	G4	394	495	48	1890	70	0,94	0,44	0,01
16252	G4	495	622	48	2340	70	1,18	0,55	0,02
20202	G4	495	495	48	2340	70	1,12	0,55	0,02
20242	G4	495	594	48	2880	70	1,36	0,66	0,02
20252	G4	495	622	48	2970	70	1,42	0,7	0,02
12244	G4	289	592	98	2070	90	1,28	0,75	0,02
16204	G4	394	495	98	2250	90	1,45	0,85	0,02
20204	G4	495	495	98	2880	90	1,73	1,05	0,04

Other dimensions are available on request - All dimensions are nominal.

Pleated Filters

AeroPleat Eco, Green & Metal



Advantages

- Low pressure drop media resulting in low energy costs
- Robust construction for reliable operation
- Three frame alternatives with different benefits:
 - Green: Incinerable plastic frame for increased robustness and water resistance
 - Eco: Moisture resistant incinerable cardboard frame
 - Metal: Rigid frame for demanding applications. Fire classified M1

Application: Pre filter for comfort air conditioning applications

Type: Disposable pleated panel filter

Frame: Eco: Moisture resistant cardboard, Green: ABS plastic and Metal: Galvanized steel

Media: Mixture of cotton and synthetic fiber

Gravimetric efficiency: 90%

EN779:2012 efficiency: G4

Recommended final pressure drop: 250 Pa

Temperature: 70°C maximum in continuous service

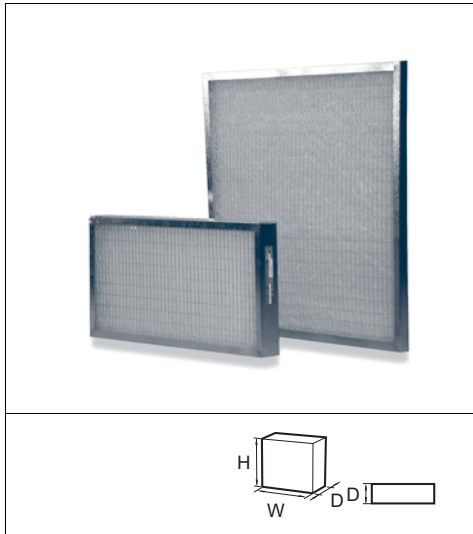
Holding frames: Front and side access housings and frames

Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop Pa	Media Area m ²	Weight kg	Volume m ³
Green	G4	592	592	48	3400	55	1,2	0,7	0,02
Green	G4	287	592	48	1700	55	0,6	0,4	0,01
Green	G4	305	610	48	1800	55	0,6	0,4	0,01
Green	G4	610	610	48	3600	55	1,3	0,8	0,02
Green	G4	400	500	48	1940	55	0,7	0,6	0,02
Green	G4	492	492	48	2400	55	0,8	0,7	0,02
Green	G4	592	592	96	3400	45	2,3	1,4	0,04
Green	G4	287	592	96	1700	45	1,1	0,7	0,02
Green	G4	305	610	96	1800	45	1,2	0,7	0,02
Green	G4	610	610	96	3600	45	2,4	1,4	0,04
Eco	G4	592	592	24	3000	70	0,6	0,5	0,02
Eco	G4	592	592	48	3240	70	1,1	0,65	0,02
Eco	G4	592	592	92	3400	70	2	1,1	0,04
Eco	G4	287	287	48	820	70	0,26	0,2	0,01
Eco	G4	287	592	48	1620	70	0,53	0,35	0,01
Eco	G4	394	494	48	1830	70	0,63	0,4	0,01
Eco	G4	394	622	48	2300	70	0,79	0,5	0,02
Eco	G4	494	494	48	2290	70	0,75	0,5	0,02
Eco	G4	494	592	48	2750	70	0,91	0,55	0,02
Eco	G4	494	622	48	2880	70	0,95	0,6	0,02
Eco	G4	287	287	92	800	70	0,5	0,3	0,02
Eco	G4	287	592	92	1700	70	1	0,5	0,02
Eco	G4	394	494	92	1900	70	1,1	0,8	0,04
Eco	G4	394	622	92	2330	70	1,4	0,9	0,04
Eco	G4	494	494	92	2330	70	1,4	0,9	0,04
Eco	G4	494	592	92	2700	70	1,7	1	0,04
Eco	G4	494	622	92	3000	70	1,8	1	0,04
Eco	G4	287	287	24	700	70	0,15	0,2	0,01
Eco	G4	287	592	24	1500	70	0,3	0,2	0,01
Eco	G4	394	494	24	1600	70	0,3	0,3	0,02
Eco	G4	394	622	24	2100	70	0,4	0,4	0,02
Eco	G4	494	494	24	2100	70	0,4	0,4	0,02
Eco	G4	494	592	24	2500	70	0,5	0,4	0,02
Eco	G4	494	622	24	2600	70	0,55	0,4	0,02
Metal	G4	400	480	48	1900	55	0,6	1,5	0,01
Metal	G4	500	480	48	2400	55	0,8	1,7	0,01
Metal	G4	287	592	48	1650	55	0,5	1,7	0,01
Metal	G4	592	592	48	3400	55	1,1	2,2	0,02
Metal	G4	305	610	48	1800	55	0,6	1,7	0,01
Metal	G4	610	610	48	3600	55	1,2	2,3	0,02
Metal	G4	500	625	48	3000	55	1	2,3	0,02

Other dimensions are available on request - All dimensions are nominal.

Pad Filters

Pad Holding Frame



Advantages

- Robust construction
- Replaceable filter media
- Support mesh downstream
- Retaining wire for media pad
- Suitable for commercial and industrial applications

Application: Pre filtration in air conditioning or industrial processing systems.

Type: Coarse grade filter.

Frame: Standard galvanised mild steel.

Media: Synthetic / glass fibre.

EN779:2012 efficiency: G2, G3, G4.

Arrestance efficiency: 65% - 90%.

Temperature: 80°C maximum in continuous service.

Humidity: 100% RH.

Optional: Alternative frame materials available on request.

Model Name	Model	Filter class	Dimensions (WxHxD) mm	Air flow/pressure drop m ³ /hr/Pa	Media area m ²	Unit weight kg	Unit volume m ³
PHF-2S	2" POLY	G3 / G4	597x597x45	3240/109	0,36	1,2	0,016
PHF-2S	2" POLY	G3 / G4	495x597x45	2700/109	0,3	1	0,013
PHF-2S	2" POLY	G3 / G4	292x597x45	1620/109	0,18	0,6	0,007
PHF-1S	T15-350	G3 / G4	597x597x25	1924/25	0,36	1	0,007
PHF-1S	T15-350	G3 / G4	495x597x25	1595/25	0,3	0,9	0,005
PHF-1S	T15-350	G3 / G4	292x597x25	941/25	0,18	0,6	0,003
PHF-2G	2" GLASS	G3	597x597x45	3240/60	0,36	1,2	0,016
PHF-2G	2" GLASS	G3	495x597x45	2700/60	0,3	1	0,013
PHF-2G	2" GLASS	G3	292x597x45	1620/60	0,18	0,6	0,007
PHF-1G	1" GLASS	G2	597x597x25	3240/50	0,36	1	0,007
PHF-1G	1" GLASS	G2	495x597x25	2700/50	0,3	0,9	0,005
PHF-1G	1" GLASS	G2	292x597x25	1620/50	0,18	0,6	0,003

Other dimensions are available on request - All dimensions are nominal.

Metal Panels

airMet Special Filter



Advantages

- Can be made in all sizes
- Filter shape for all applications
- Made in different material (Galvanized, Copper, nylon, stainless steel, acid stainless)
- Special customized filter with high precision
- Press formed filter
- A lot of different applications

Camfil Svenska AB sale in whole Europe and is the market leader in Sweden. Our experience within metal filter, knitting wire and there applications give us an international perspective with large opportunities.

Special metal filter can be made in all customized sizes with high precision. We can help you to define, the size, the thickness and the material. We can test in our laboratory the skills of specific filter (pressure drop, separation efficiency...etc).

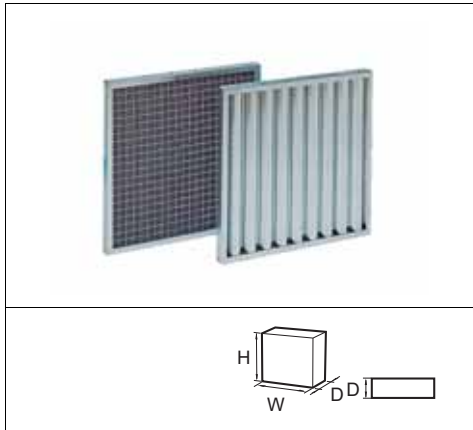
We offer skills, technology and short delivery time.

Call 0046 381 551 380 or e-mail osterbymo@camfil.se

Applications:

Pre filters, Thick particles filters
 Stream water separator
 Vibration absorber
 Oil/ grease separator
 Gas exhaust filter for small motors
 Electromagnetism immunity gaskets
 etc...

airMet Double Filter



Advantages

- The fat is arrested in two stages in the filter
- The air passes through the labyrinth strips and is cooled
- The fat condenses out and runs down in a channel
- This minimises the risk of clogging and excess pressure drop
- The air then passes through a knitted stainless steel filter
- Any residual fat is trapped
- The filter is fitted with two strong handles

Applications: Double filter with Flame Guard and knitting mesh for restaurants and the catering industry is manufactured completely in stainless material.

Type: Fat condenses on the labyrinth structure and the flame guard also has a final filter of knitted stainless filter medium to deal with any remaining fat.

Frame: polished steel sheet 0.7 mm. AISI 304L

Labyrinth: polished steel sheet 0.7 mm. AISI 304L

Media: Woven stainless steel wire dia. 0,22 mm. AISI 304L

Grating: Stainless steel grid 20x20 mm dia 2mm.

Special size: Call factory 0046 381 551 380 or e-mail osterbymo@camfi.se

Article number	Model Name	Size
MF31022	Double Filter	395x195x35 / 400x200x35
MF31021	Double Filter	395x395x35 / 400x400x35
MF31020	Double Filter	445x395x35 / 450x400x35
MF31006	Double Filter	495x245x35 / 500x250x35
MF31007	Double Filter	495x495x35 / 500x500x35

Metal Panels

airMet Metal Filter



Advantages

- The filter cells are made from aluminium, galvanised or stainless steel wire woven into a special pattern
- G2 class cleanable dust, sand, flour, paint...etc pre-filter. Grease and oil filter with very high separation efficiency.
- Can be made in all customised sizes.
- Can be cleaned in dishwasher or pressure washer.
- Very large cooling surface without excessive air resistance

Application: Metal filter for grease or oil mist separation. Prefilter for thick particles.

Type: G2 Metal filter and high oil separation efficiency.

Frame: Aluminium EN-AW-6060, ALMG3, stainless steel AISI 304L, acid stainless steel AISI 316L, galvanized.

Media: Woven metal wire mesh. Can be made in aluminium, galvanized, stainless steel or acid stainless steel material.

Grating: Aluminium, Hot-dip galvanized expanded metal net or stainless steel grid.

Recommended final pressure drop: 80-120 Pa.

Article number	Material	Size (WxH) mm	Thickness (D) mm
MFAL XXYY*	Aluminium	from 100x100 to 750x1500	from 8 to 150
MFFZ XXYY*	Galvanized	from 100x100 to 750x1500	from 8 to 150
MFRF XXYY*	Stainless steel	from 100x100 to 750x1500	from 10 to 150

XX = Thickness in mm (D) 08 for 8 mm, 25 for 25 mm etc...)

YY = Surface in dm² (W x H = surface) according to table below:

From 1 to 8 dm² => **08**

From 8,1 to 12 dm² => **12**

From 12,1 to 16 dm² => **16**

From 16,1 to 18 dm² => **18**

From 18,1 to 25 dm² => **25**

From 25,1 to 30 dm² => **30**

From 30,1 to 36 dm² => **36**

From 36,1 to 43 dm² => **43**

From 43,1 to 50 dm² => **50**

Metal filter can be made in diferent sizes, shapes and material.

Please phone 0046 381 551 380 or e-mail osterbymo@camfil.se

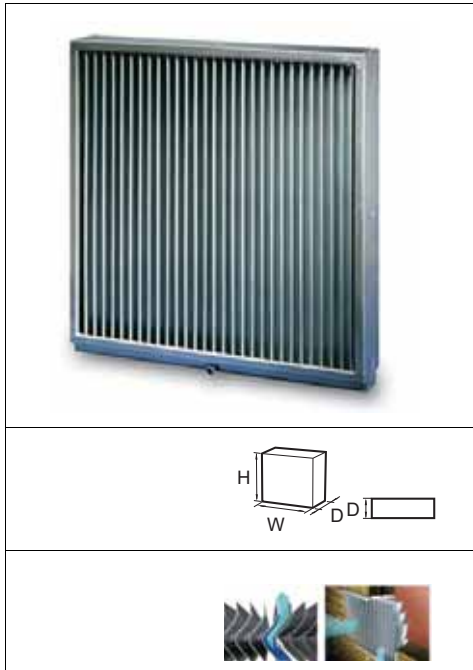
ex: filter size W= 4,55 dm, H= 3,98 dm => surface 18,109 dm²

Thickness: D= 40 mm

Article number for Stainless steel => **MFRF4025**

Metal Panels

CamVane 100



Advantages

- Air velocities between 1,0 to 5,0 m/s
- Low noise level
- Very low pressure drop
- Weather resistant material
- Separation efficiency up to 100 % rain
- Minimal risk of freezing

Application: Intake grille which is a very efficient for rainprotection. It is used in all filter installations where the water, rain and moisture problems occur, such as in marine environments, coastal areas, the rivers and inland.

Type: CamVane has specially-shaped aluminium profiles which generate turbulence in the air-flow.

Frame: Aluminium EN-AW-5754

Profiles: Aluminium EN-AW-6060

Air velocities: 1.0 - 5.0 m/s in the duct system

Size: Supplied with any dimensions up to 2500 x 2500 mm

Deep: Standard 100 mm

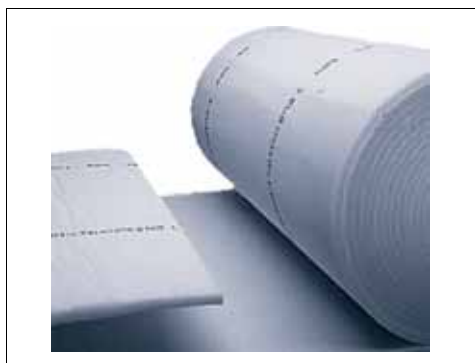
Drainage: Supplied with drain at the bottom.

Mounting: Mounting flange or fastening ears to customer specifications.

Specifications	CamVane 185
Air velocity (m/s)	1,0 - 5,0
Size WxH (mm)	Up to 2500 x 2500
Deep D (mm)	100
Optional extras:	<ul style="list-style-type: none"> • Protective grating for CamVane 100 is delivered afterwards • Installation flanges on the front or rear of the CamVane
Order example	x CamVane 100 (w x h) 600 x 600 mm x Protective grating (W x h) 600 x 600 mm
Weight (kg/m ²)	Approx. 35
Efficiency of droplet separator	cc 25 mm: 20 µm at 3,0 m/s
Tested by VTT in Finland to EN 13030:2001.	
Determining the sound power level, pressure and flow from one out grilles to ISO 5135 (SP Report P906282 rev).	

Media Rolls

Media Rolls



Advantages

- Available for all kind of applications

Application: For use as a pre filter in air conditioning, and spraybooth ventilation.

Media: Synthetic and glass fiber

EN779:2012 efficiency: G2-M5

Arrestance efficiency: 65% - 92%.

Temperature: 80°C - 100°C maximum in continuous service.

Humidity: 100% RH.

Model Name	Characteristics	Width	Length	Filter class	Velocity m/s	Pressure drop	Unit volume m ³	Dust holding g/m ²
Synthetic media								
T15-150		2,05	20	G2	1.5	15	0.53	410
T15-150		1	20	G2	1.5	15	0.26	410
PST 290		2,05	20	G4	1.10	41	0.82	350
PST 290		1	20	G4	1.10	41	0.40	350
PST 290		0,76	20	G4	1.10	41	0.30	350
T15-350		2,05	20	G4	1.5	25	0.62	678
T15-500		2,05	20	G4	1.6	35	0.08	540
POLY 50		2,05	20	G3	1.7	45	2.05	550
POLY SOFT 50		2	10	G3	1.8	52	1.00	673
POLY SOFT 50		2	20	G3	1.9	52	2.00	673
HC - 80		1	50	G2	1.10	12	0.50	360
Glass fiber media								
PR 50		0.710	20	G2	1.8	30	0.71	600
PR 50		0.710	40	G2	1.8	30	1.42	600
PR 50		1.0	20	G2	1.8	30	1.00	600
PR 50		1.0	40	G2	1.8	30	2.00	600
PR 50		1.5	20	G2	1.8	30	1.5	600
PR 50		1.5	40	G2	1.8	30	3.00	600
PR 50		1.829	20	G2	1.8	30	1.829	600
PR 50		2.0	20	G2	1.8	30	2.00	600
PR 50		2.0	30	G2	1.8	30	3.00	600
PR 75		0.71	40	G2	1.8	35	2.13	750
PR 100		0.762	20	G2	1.8	40	1.524	900
PR 100		1.0	20	G2	1.8	40	2.00	900
PR 100		1.0	40	G2	1.8	40	4.00	900
PR 100		1.524	20	G2	1.8	40	3.048	900
PR 100		1.524	40	G2	1.8	40	6.096	900
PR 100		1.829	20	G2	1.8	40	3.658	900
GR50		0.610	40	G3	1.8	35	1.25	700
VK25 White	Impregnated	2	20	G2	2.5	60		700
VK50 White	Impregnated	2	20	G3	2.5	70		1500
VK50 Green	Dry	2	20	G2	1	25		1200
SC600T	Impregnated	2	20	M5	0.25	48		305

Other sizes and cut pads available on request.

Fan Coil Filters

Fan Coil Filters



Advantages

- Available in a wide variety of sizes
- Economical
- Low pressure drop
- Light and robust

Application: Prevention of dust and dirt build up on heating/cooling coils within ventilation systems.

Type: Coarse dust removal.

Frame: Metal with downstream support.

Media: Synthetic.

EN779:2012 efficiency: G3.

Arrestance efficiency: 65%.

Eurovent 4/5 efficiency: EU2.

Temperature: 70°C maximum in continuous service.

Humidity: 100% RH.

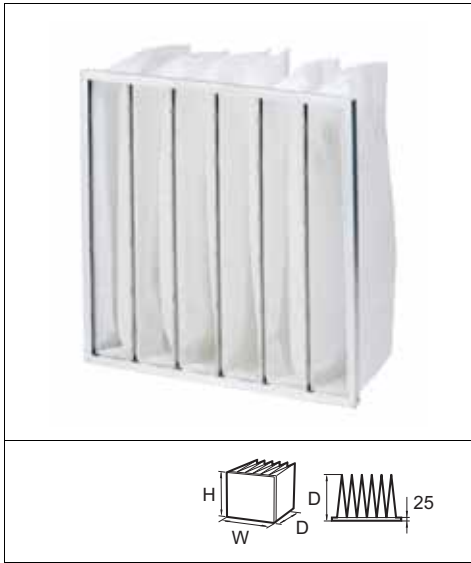


Model Name.	Filter class	Width	Height	Air flow m ³ /h	Air flow m ³ /s	Pressure drop	Volume m ³	Weight kg
Fan Coil	G3	185	444	570	0,158	25	0,2	0,08
Fan Coil	G3	185	594	770	0,214	25	0,3	0,11
Fan Coil	G3	185	794	1030	0,286	25	0,4	0,15
Fan Coil	G3	185	994	1280	0,356	25	0,5	0,18
Fan Coil	G3	185	1194	1560	0,433	25	0,6	0,22
Fan Coil	G3	174	650	790	0,219	25	0,3	0,11
Fan Coil	G3	174	850	1040	0,289	25	0,4	0,15
Fan Coil	G3	174	1050	1274	0,354	25	0,5	0,18
Fan Coil	G3	174	1250	1520	0,422	25	0,6	0,22
Fan Coil	G3	245	480	800	0,222	25	0,3	0,12
Fan Coil	G3	245	730	1280	0,356	25	0,5	0,18
Fan Coil	G3	245	1030	1760	0,489	25	0,7	0,25
Fan Coil	G3	212	465	690	0,192	25	0,3	0,1
Fan Coil	G3	212	665	990	0,275	25	0,4	0,14
Fan Coil	G3	212	965	1280	0,356	25	0,5	0,18
Fan Coil	G3	212	1065	1580	0,439	25	0,6	0,23
Fan Coil	G3	205	660	990	0,275	25	0,4	0,14
Fan Coil	G3	205	845	1200	0,333	20	0,5	0,18
Fan Coil	G3	418	170	495	0,138	25	0,2	0,07
Fan Coil	G3	578	208	850	0,236	25	0,3	0,12
Fan Coil	G3	578	170	700	0,194	25	0,3	0,1
Fan Coil	G3	778	170	990	0,275	25	0,4	0,14
Fan Coil	G3	978	208	1500	0,417	25	0,6	0,21
Fan Coil	G3	978	170	1200	0,333	25	0,5	0,17

Other sizes available on request

Primary Bag Filters

Hi-Cap



Advantages

- Optimized media surface by conical pocket shape
- Easy installation
- Robust construction
- Robust metal header frame
- High dust holding capacity

Application: Prefilter for air conditioning and ventilation systems

Type: Filter with synthetic bags and medium efficiency

Frame: Galvanised sheet metal, 25mm

Media: Polyester

Efficiency acc. EN:779:2012: G4

Recommended final pressure drop: 250 Pa

Maximum air flow: 1,25 x air flow

Temperature / Humidity: 70°C / 100% RH

Mounting: Frame Type 4MPS, 4NQS, 4ORS or housings FC-HF

Remarks: Filter with plastic frame available



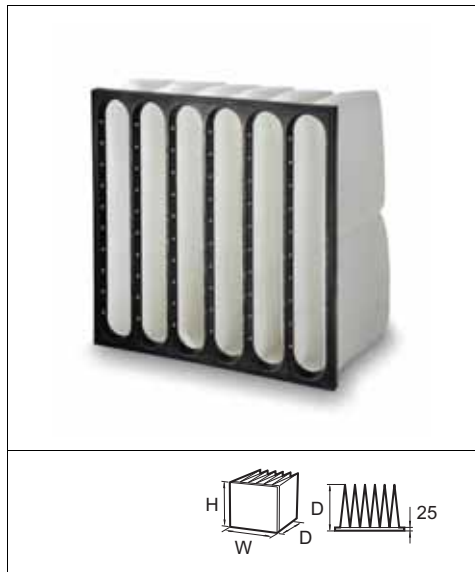
Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg
HC 66	G4	592	592	360	3400	40	6	2,6	0,04	2,2
HC 56	G4	490	592	360	2800	40	5	2,2	0,04	1,9
HC 36	G4	287	592	360	1700	40	3	1,3	0,03	1,3
HC 33	G4	287	287	360	800	40	3	0,7	0,02	0,7
HC 63	G4	592	287	360	1700	40	6	1,3	0,03	1,3
HC 66/580	G4	592	592	580	3400	30	6	4,2	0,04	2,6
HC 56/580	G4	490	592	580	2800	30	5	3,5	0,04	2,2
HC 36/580	G4	287	592	580	1700	30	3	2	0,03	1,5
HC 33/580	G4	287	287	580	850	30	3	1	0,01	0,8
HC 63/580	G4	592	287	580	1700	30	6	2	0,03	1,5

Other dimensions are available on request - All dimensions are nominal.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Primary Bag Filters

Hi-Cap XLS



Advantages

- Rigid self supporting pockets
- High mechanical strength
- Moulded, stable and aerodynamic plastic header in one piece
- Welded pocket construction

Applications: Pre-filtration for removing the largest particles in an air conditioning system.

Type: Base filter with synthetic fibre bags and medium degree of separation.

Frame: PS plastic – one-piece and combustible

Media: Polyester fibre

Filter class according to EN779:2012: G4

Recommended final pressure fall: 250 Pa

Maximum flow: 1.25 x nominal flow.

Temperature: Max. 70°C under continuous operation

Installation system: Installations frames of type SP or in filter cabinet FCBS-HF.



Model Name	Filter class	Width	Height	Depth	Air flow m³/h	Pressure drop	Bags	Area m²	Weight kg	Volume m³
4/520	G4	592	592	520	3400	30	6	3,7	1,2	0,04
4/520	G4	490	592	520	2700	30	5	3	1	0,04
4/520	G4	287	592	520	1700	30	6	1,8	0,7	0,03
4/520	G4	592	287	520	1700	30	6	1,8	0,7	0,03
4/520	G4	592	490	520	2700	30	6	3	1,1	0,04
4/370	G4	592	592	370	3400	35	6	2,6	1	0,04
4/370	G4	490	592	370	2700	35	5	2,2	0,9	0,04
4/370	G4	287	592	370	1700	35	3	1,3	0,6	0,03
4/370	G4	592	287	370	1700	35	6	1,3	0,6	0,03
4/370	G4	592	490	370	2700	35	6	2,2	0,9	0,04

Other dimensions are available on request - All dimensions are nominal.

Summary Comfort filters: M5 to F9



Bag Filters For Gas Filtration
City-Flo XL
Page 35



Bag Filters
Hi-Flo XLT
Page 36



Bag Filters
Hi-Flo XLS
Page 38



Bag Filters
Hi-Flo M
Page 40



Bag Filters
Hi-Flo A
Page 41



Bag Filters
Hi-Flo UF
Page 43



Bag Filters
Hi-Flo P
Page 45



Bag Filters
Hi-Flo TM
Page 46



Bag Filters
Cam-Flo
Page 47



Bag Filters
Basic-Flo
Page 48



Bag Filters
Basic-Flo Green
Page 50



Compact Filters
Opakfil ES
Page 52



High Efficiency Panels
Ecopleat Eco
Page 53



High Efficiency Panels
Ecopleat Metal
Page 54



High Efficiency Panels
Ecopleat Green
Page 55



High Efficiency Panels
M-Pleat Green
Page 56

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration



Pleated Compact Filters
Airopac
Page 57



Pleated Compact Filters
Airopac High Temp
Page 58



Product range ProSafe
Hi-Flo ProSafe
Page 59

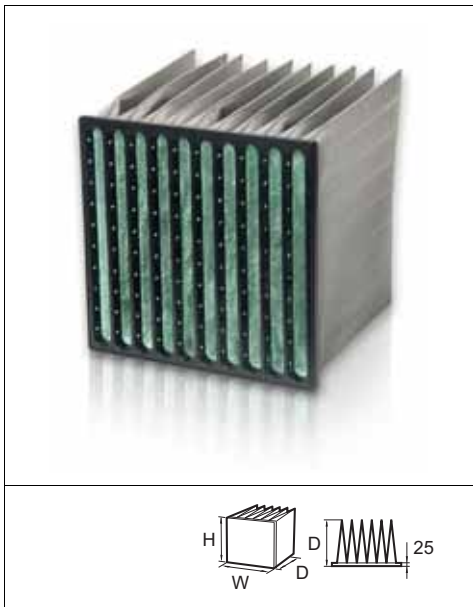


Product range ProSafe
Opakfil ProSafe
Page 61



Product range ProSafe
Hi-Cap ProSafe
Page 62

City-Flo XL



Advantages

- Combined particle and molecular filter
- Low initial pressure drop
- Conical pockets
- Moulded, rigid and aerodynamic shaped plastic frame

Filter type: Particulate and molecular filter.

Frame: PS plastic - moulded and combustible

Filter media: Fibreglass and carbon with broad spectrum.

EN779:2012 efficiency: F7.

Temperature: 0-50°C in continuous operation.

Air humidity: 70% RH max.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
7/640 50+	F7	592	592	640	3400	85	10	7,5	0,07	3,5	61	57	1110	B
7/640 50+	F7	490	592	640	2700	85	8	6	0,07	2,8				B
7/640 50+	F7	287	592	640	1700	85	5	3,7	0,05	1,8				B
7/640 50+	F7	287	287	640	800	85	5	1,9	0,02	0,9				B
7/640 50+	F7	592	287	640	1700	85	10	3,7	0,05	1,8				B
7/640 50+	F7	592	490	640	2700	85	10	6,2	0,07	2,9				B
7/640 50+	F7	490	490	640	2330	85	8	5	0,07	2,4				B
7/520 50+	F7	592	592	520	3400	110	10	6,1	0,07	3,1	57	57	1382	C
7/520 50+	F7	490	592	520	2700	110	8	4,9	0,07	2,5				C
7/520 50+	F7	287	592	520	1700	110	5	3	0,05	1,6				C
7/520 50+	F7	287	287	520	800	110	5	1,5	0,02	0,8				C
7/520 50+	F7	592	287	520	1700	110	10	3	0,05	1,6				C
7/520 50+	F7	592	490	520	2700	110	10	6,2	0,07	3,1				C
7/520 50+	F7	490	490	520	2330	110	8	4	0,07	2				C

* ME%: Minimum efficiency ref. to EN779:2012

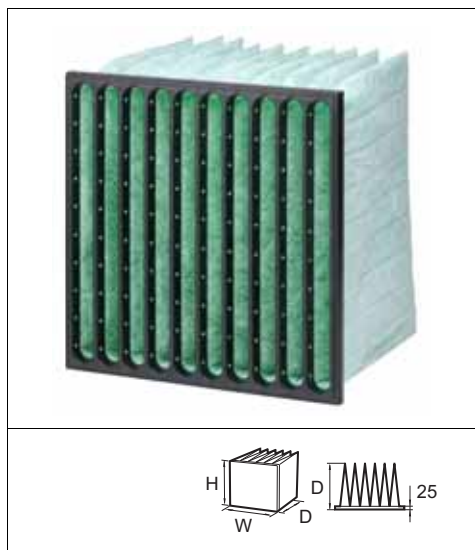
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Hi-Flo XLT



Advantages

- The latest developed glass fibre media
- Low initial pressure drop
- Flat pressure drop curve
- New developed pocket design for the best air distribution
- Conical pockets
- Moulded, rigid and aerodynamic shaped plastic frame
- Less energy consumption

Application: Air conditioning applications and as pre filters for clean rooms

Type: Pocket filters with high efficiency

Frame: PS plastic - moulded and combustible

Media: Glass fiber

EN779:2012 efficiency: M5, M6, F7, F8, F9

Temperature: 70°C maximum in continuous service.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa)

Air flow: Nominal air flow $\pm 25\%$

Packing: Environmental friendly cardboard boxes easy to carry. We are connected to the REPA register

Holding frames: Mounting frames in type SP or in filter housing FCB-HF



Model Name	Filter Class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
5/640	M5	592	592	640	3400	40	10	7,5	0,04	2,3	9	8	501	A
5/640	M5	490	592	640	2700	40	8	6	0,04	1,6				A
5/640	M5	287	592	640	1700	40	5	3,7	0,03	1,4				A
5/640	M5	287	287	640	800	40	5	1,9	0,01	0,8				A
5/640	M5	592	287	640	1700	40	10	3,7	0,03	1,4				A
5/640	M5	592	490	640	2700	40	10	6,2	0,04	1,6				A
5/640	M5	490	490	640	2330	40	8	5	0,04	1,3				A
5/520	M5	592	592	520	3400	45	10	6,1	0,04	2,2	9	8	612	B
5/520	M5	490	592	520	2700	45	8	4,9	0,04	1,4				B
5/520	M5	287	592	520	1700	45	5	3	0,03	1,3				B
5/520	M5	287	287	520	800	45	5	1,5	0,01	0,7				B
5/520	M5	592	287	520	1700	45	10	3	0,03	1,3				B
5/520	M5	592	490	520	2700	45	10	5	0,04	1,4				B
5/520	M5	490	490	520	2330	45	8	4	0,04	1,2				B
5/370	M5	592	592	370	3400	80	10	4,3	0,04	2	9	8	1061	D
5/370	M5	490	592	370	2700	80	8	3,5	0,04	1,3				D
5/370	M5	287	592	370	1700	80	5	2,2	0,03	1,2				D
5/370	M5	287	287	370	800	80	5	1,1	0,01	0,7				D
5/370	M5	592	287	370	1700	80	10	2,1	0,03	1,2				D
5/370	M5	592	490	370	2700	80	10	3,6	0,04	1,2				D
5/370	M5	490	490	370	2330	80	8	2,9	0,04	1				D
6/640	M6	592	592	640	3400	55	10	7,5	0,04	2,3	25	23	667	B
6/640	M6	490	592	640	2700	55	8	6	0,04	1,6				B
6/640	M6	287	592	640	1700	55	5	3,7	0,03	1,4				B
6/640	M6	287	287	640	800	55	5	1,9	0,01	0,8				B
6/640	M6	592	287	640	1700	55	10	3,7	0,03	1,4				B
6/640	M6	592	490	640	2700	55	10	6,2	0,04	1,6				B
6/640	M6	490	490	640	2330	55	8	5	0,04	1,3				B
6/520	M6	592	592	520	3400	60	10	6,1	0,04	2,2	25	23	755	B

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015



www.camfil.com

Bag Filters

Model Name	Filter Class	Width	Height	Depth	Airflow m³/h	Pressure drop	Bags	Area m²	Volume m³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
6/520	M6	490	592	520	2700	60	8	4,9	0,04	1,4				B
6/520	M6	287	592	520	1700	60	5	3	0,03	1,3				B
6/520	M6	287	287	520	800	60	5	1,5	0,01	0,7				B
6/520	M6	592	287	520	1700	60	10	3	0,03	1,3				B
6/520	M6	592	490	520	2700	60	10	5	0,04	1,4				B
6/520	M6	490	490	520	2330	60	8	4	0,04	1,2				B
6/370	M6	592	592	370	3400	80	10	4,3	0,04	2	26	23	1371	D
6/370	M6	490	592	370	2700	80	8	3,5	0,04	1,3				D
6/370	M6	287	592	370	1700	80	5	2,2	0,03	1,2				D
6/370	M6	287	287	370	800	80	5	1,1	0,01	0,7				D
6/370	M6	592	287	370	1700	80	10	2,1	0,03	1,2				D
6/370	M6	592	490	370	2700	80	10	3,6	0,04	1,2				D
6/370	M6	490	490	370	2330	80	8	2,9	0,04	1				D
7/640 50+	F7	592	592	640	3400	75	10	7,5	0,04	2,3	54	54	928	A
7/640 50+	F7	490	592	640	2700	75	8	6	0,04	1,6				A
7/640 50+	F7	287	592	640	1700	75	5	3,7	0,03	1,4				A
7/640 50+	F7	287	287	640	800	75	5	1,9	0,01	0,8				A
7/640 50+	F7	592	287	640	1700	75	10	3,7	0,03	1,4				A
7/640 50+	F7	592	490	640	2700	75	10	6,2	0,04	1,6				A
7/640 50+	F7	490	490	640	2330	75	8	5	0,04	1,3				A
7/520 50+	F7	592	592	520	3400	90	10	6,1	0,04	2,2	54	54	1101	B
7/520 50+	F7	490	592	520	2700	90	8	4,9	0,04	1,4				B
7/520 50+	F7	287	592	520	1700	90	5	3	0,03	1,3				B
7/520 50+	F7	287	287	520	800	90	5	1,5	0,01	0,7				B
7/520 50+	F7	592	287	520	1700	90	10	3	0,03	1,3				B
7/520 50+	F7	592	490	520	2700	90	10	5	0,04	1,4				B
7/520 50+	F7	490	490	520	2330	90	8	4	0,04	1,2				B
7/370 50+	F7	592	592	370	3400	120	10	4,3	0,04	2	56	54	1745	D
7/370 50+	F7	490	592	370	2700	120	8	3,5	0,04	1,3				D
7/370 50+	F7	287	592	370	1700	120	5	2,2	0,03	1,2				D
7/370 50+	F7	287	287	370	800	120	5	1,1	0,01	0,7				D
7/370 50+	F7	592	287	370	1700	120	10	2,1	0,03	1,2				D
7/370 50+	F7	592	490	370	2700	120	10	3,6	0,04	1,2				D
7/370 50+	F7	490	490	370	2330	120	8	2,9	0,04	1				D
8/640 70+	F8	592	592	640	3400	130	10	7,5	0,04	2,3	80	79	1538	C
8/640 70+	F8	490	592	640	2700	130	8	6	0,04	1,6				C
8/640 70+	F8	287	592	640	1700	130	5	3,7	0,03	1,4				C
8/640 70+	F8	287	287	640	800	130	5	1,9	0,01	0,8				C
8/640 70+	F8	592	287	640	1700	130	10	3,7	0,03	1,4				C
8/640 70+	F8	592	490	640	2700	130	10	6,2	0,04	1,6				C
8/640 70+	F8	490	490	640	2330	130	8	5	0,04	1,3				C
8/520 70+	F8	592	592	520	3400	155	10	6,1	0,04	2,2	80	79	1922	C
8/520 70+	F8	490	592	520	2700	155	8	4,9	0,04	1,4				C
8/520 70+	F8	287	592	520	1700	155	5	3	0,03	1,3				C
8/520 70+	F8	287	287	520	800	155	5	1,5	0,01	0,7				C
8/520 70+	F8	592	287	520	1700	155	10	3	0,03	1,3				C
8/520 70+	F8	592	490	520	2700	155	10	5	0,04	1,4				C
8/520 70+	F8	490	490	520	2330	155	8	4	0,04	1,2				C
9/640 80+	F9	592	592	640	3400	135	10	7,5	0,04	1,6	86	85,6	1660	B
9/640 80+	F9	490	592	640	2700	135	8	6	0,04	1,6				B
9/640 80+	F9	287	592	640	1700	135	5	3,7	0,03	1,4				B
9/640 80+	F9	287	287	640	800	135	5	1,9	0,01	0,8				B
9/640 80+	F9	592	287	640	1700	135	10	3,7	0,03	1,4				B
9/640 80+	F9	592	490	640	2700	135	10	6,2	0,04	1,6				B
9/640 80+	F9	490	490	640	2330	135	8	5	0,04	1,3				B
9/520 80+	F9	592	592	520	3400	180	10	6,1	0,04	2,2	88	85,6	2481	C
9/520 80+	F9	490	592	520	2700	180	8	4,9	0,04	1,4				C
9/520 80+	F9	287	592	520	1700	180	5	3	0,03	1,3				C
9/520 80+	F9	287	287	520	800	180	5	1,5	0,01	0,7				C
9/520 80+	F9	592	287	520	1700	180	10	3	0,03	1,3				C
9/520 80+	F9	592	490	520	2700	180	10	5	0,04	1,4				C
9/520 80+	F9	490	490	520	2330	180	8	4	0,04	1,2				C

* ME%: Minimum efficiency ref. to EN779:2012
 ** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014
 *** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

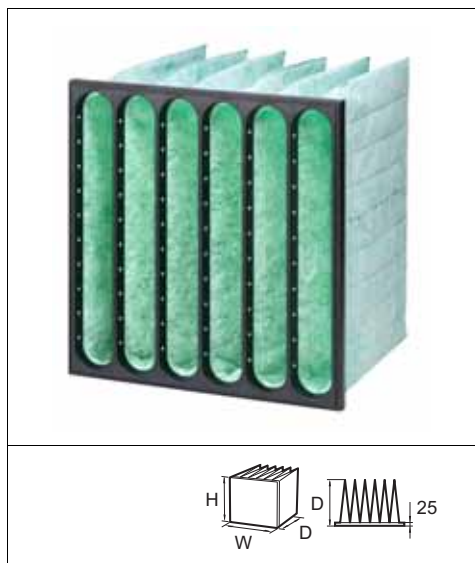
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Bag Filters

Hi-Flo XLS



Advantages

- The latest developed glass fibre media
- Low initial pressure drop
- Flat pressure drop curve
- New developed pocket design for the best air distribution
- Conical pockets
- Moulded, rigid and aerodynamic shaped plastic frame
- Less energy consumption

Application: Air conditioning applications and as pre filters for clean rooms

Type: Pocket filters with high efficiency

Frame: PS plastic - moulded and combustible

Media: Glass fiber

EN779:2012 efficiency: M5, M6, F7, F9.

Temperature: 70°C maximum in continuous service.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa)

Air flow: Nominell air flow +25%

Packing: Environmental friendly cardboard boxes easy to carry. We are connected to the REPA register

Holding frames: Mounting frames in type SP or in filter housing FCB-HF



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
5/640	M5	592	592	640	3400	45	6	4,5	0,04	1	9	8	797	C
5/640	M5	490	592	640	2700	45	5	3,7	0,04	0,9				C
5/640	M5	287	592	640	1700	45	3	2,2	0,03	0,6				C
5/640	M5	592	287	640	1700	45	6	2,2	0,03	0,6				C
5/640	M5	592	490	640	2700	45	6	3,7	0,04	0,9				C
5/520	M5	592	592	520	3400	50	6	3,7	0,04	0,9	9	8	1196	D
5/520	M5	490	592	520	2700	50	5	3	0,04	0,8				D
5/520	M5	287	592	520	1700	50	3	1,8	0,03	0,6				D
5/520	M5	592	287	520	1700	50	6	1,8	0,03	0,6				D
5/520	M5	592	490	520	2700	50	6	3	0,04	0,9				D
5/370	M5	592	592	370	3400	60	6	2,6	0,04	0,8	9	8		E
5/370	M5	490	592	370	2700	60	5	2,2	0,04	0,7				E
5/370	M5	287	592	370	1700	60	3	1,3	0,03	0,5				E
5/370	M5	592	287	370	1700	60	6	1,3	0,03	0,5				E
5/370	M5	592	490	370	2700	60	6	2,2	0,04	0,8				E
6/640	M6	592	592	640	3400	60	6	4,5	0,04	1,2	23,7	23	1155	D
6/640	M6	490	592	640	2700	60	5	3,7	0,04	1				D
6/640	M6	287	592	640	1700	60	3	2,2	0,03	0,7				D

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015



www.camfil.com

Bag Filters

Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
6/640	M6	592	287	640	1700	60	6	2,2	0,03	0,7				D
6/640	M6	592	490	640	2700	60	6	3,7	0,04	1,1				D
6/520	M6	592	592	520	3400	70	6	3,7	0,04	1,1	23,7	23	1541	E
6/520	M6	490	592	520	2700	70	5	3	0,04	0,9				E
6/520	M6	287	592	520	1700	70	3	1,8	0,03	0,6				E
6/520	M6	592	287	520	1700	70	6	1,8	0,03	0,7				E
6/520	M6	592	490	520	2700	70	6	3	0,04	1				E
6/370	M6	592	592	370	3400	85	6	2,6	0,04	0,9	23,7	23		E
6/370	M6	490	592	370	2700	85	5	2,2	0,04	0,8				E
6/370	M6	287	592	370	1700	85	3	1,3	0,03	0,6				E
6/370	M6	592	287	370	1700	85	6	1,3	0,03	0,6				E
6/370	M6	592	490	370	2700	85	6	2,2	0,04	0,9				E
7/640 50+	F7	592	592	640	3400	110	6	4,5	0,04	0,9	54	54	1688	C
7/640 50+	F7	490	592	640	2700	110	5	3,7	0,04	0,8				C
7/640 50+	F7	287	592	640	1700	110	3	2,2	0,03	0,6				C
7/640 50+	F7	592	287	640	1700	110	6	2,2	0,03	0,6				C
7/640 50+	F7	592	490	640	2700	110	6	3,7	0,04	0,9				C
7/520 50+	F7	592	592	520	3400	130	6	3,7	0,04	0,9	54	54	2413	E
7/520 50+	F7	490	592	520	2700	130	5	3	0,04	0,8				E
7/520 50+	F7	287	592	520	1700	130	3	1,8	0,03	0,5				E
7/520 50+	F7	592	287	520	1700	130	6	1,8	0,03	0,6				E
7/520 50+	F7	592	490	520	2700	130	6	3	0,04	0,8				E
7/370 50+	F7	592	592	370	3400	195	6	2,6	0,04	0,9	54	54	3546	E
7/370 50+	F7	490	592	370	2700	195	5	2,2	0,04	0,7				E
7/370 50+	F7	287	592	370	1700	195	3	1,3	0,03	0,5				E
7/370 50+	F7	592	287	370	1700	195	6	1,3	0,03	0,6				E
7/370 50+	F7	592	490	370	2700	195	6	2,2	0,04	0,7				E
9/640 80+	F9	592	592	640	3400	240	6	4,5	0,04	1	89	85,6	3387	D
9/640 80+	F9	490	592	640	2700	240	5	3,7	0,04	0,9				D
9/640 80+	F9	287	592	640	1700	240	3	2,2	0,03	0,6				D
9/640 80+	F9	592	287	640	1700	240	6	2,2	0,03	0,6				D
9/640 80+	F9	592	490	640	2700	240	6	3,7	0,04	0,9				D
9/520 80+	F9	592	592	520	3400	290	6	3,7	0,04	0,9	88,7	85,6	4169	E
9/520 80+	F9	490	592	520	2700	290	5	3	0,04	0,8				E
9/520 80+	F9	287	592	520	1700	290	3	1,8	0,03	0,5				E
9/520 80+	F9	592	287	520	1700	290	6	1,8	0,03	0,6				E
9/520 80+	F9	592	490	520	2700	290	6	3	0,04	0,8				E

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

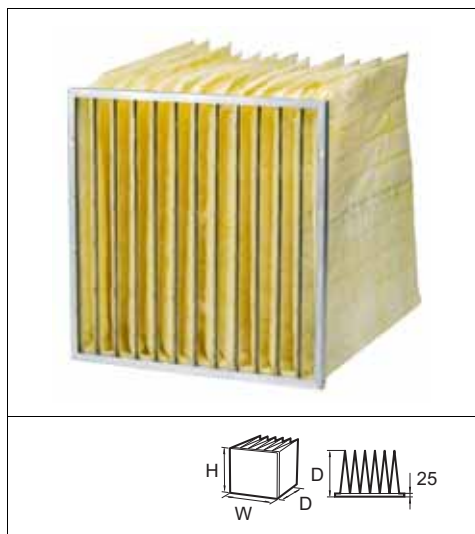
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Bag Filters

Hi-Flo M



Advantages

- Large surface area
- Save energy - optimised design (LCC)
- Comprehensive range of standard sizes
- New developed pocket design for the best air distribution
- Conical pockets
- Certified performance
- CREO Approved

Application: Air conditioning applications.

Type: Extended surface multi pocket bag filter.

Case: Galvanised steel.

Media: Glass Fiber.

EN779:2012 efficiency: M6, F7, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 250Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
M6	M6	592	592	640	3400	50	12	9,1	0,05	3,3	24,4	23	589	A
N6	M6	490	592	640	2800	50	10	7,6	0,05	3				A
O6	M6	287	592	640	1700	50	6	4,6	0,03	2				A
	M6	287	287	640	800	50	6	2,3	0,02	1,5				A
	M6	592	287	640	1700	50	12	4,6	0,03	2				A
	M6	592	490	640	2800	50	12	7,6	0,05	3				A
ML6	M6	592	892	640	5000	50	12	13,7	0,1	3,9				
NL6	M6	490	892	640	4100	50	10	11,4	0,1	3,2				
OL6	M6	287	892	640	2500	50	6	6,8	0,05	2,2				
M7 60+	F7	592	592	640	3400	85	12	9,1	0,05	3,3	63	60	1069	B
N7 60+	F7	490	592	640	2800	85	10	7,6	0,05	3				B
O7 60+	F7	287	592	640	1700	85	6	4,6	0,03	2				B
	F7	287	287	640	800	85	6	2,3	0,02	1,5				B
	F7	592	287	640	1700	85	12	4,6	0,03	2				B
	F7	592	490	640	2800	85	12	7,6	0,05	3				B
ML7 60+	F7	592	892	640	5000	85	12	13,7	0,1	3				
NL7 60+	F7	490	892	640	4100	85	10	11,4	0,1	2,7				
OL7 60+	F7	287	892	640	2500	85	6	6,8	0,05	1,8				
M9 80+	F9	592	592	640	3400	130	12	9,1	0,05	3,3	85,6	85	1556	B
N9 80+	F9	490	592	640	2800	130	10	7,6	0,05	3				B
O9 80+	F9	287	592	640	1700	130	6	4,6	0,03	2				B
	F9	287	287	640	800	130	6	2,3	0,02	1,5				B
	F9	592	287	640	1700	130	12	4,6	0,03	2				B
	F9	592	490	640	2800	130	12	7,6	0,05	3				B
ML9 80+	F9	592	892	640	5000	130	12	13,7	0,1	3				
NL9 80+	F9	490	892	640	4100	130	10	11,4	0,1	2,7				
OL9 80+	F9	287	892	640	2500	130	6	6,8	0,05	1,8				

* ME%: Minimum efficiency ref. to EN779:2012

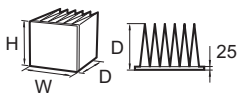
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Hi-Flo A



Advantages

- Comprehensive range of standard sizes
- New developed pocket design for the best air distribution
- Conical pockets
- Robust metal header frame
- High dust holding capacity

Application: Comfort air conditioning applications, pre filter applications.

Type: Multi pocket bag filter.

Case: Galvanised steel.

Media: Glass Fiber.

EN779:2012 efficiency: M5, M6, F7, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m3/h	Pressure drop	Bags	Area m2	Volume m3	Weight kg	Initiabff. %	ME %*	Energy consumption kWh/y**	Energy class***
A5	M5	592	592	600	3400	45	6	4,5	0,03	1,9	9	8	829	C
B5	M5	490	592	600	2800	45	5	3,6	0,03	1,6				C
C5	M5	287	592	600	1700	45	3	2,3	0,02	1,1				C
C5 33	M5	287	287	600	800	45	3	1,1	0,02	0,7				C
A5 63	M5	592	287	600	1700	45	6	2,3	0,03	1,1				C
A5 65	M5	592	490	600	2800	45	6	3,6	0,03	1,6				C
AL5	M5	592	892	600	5000	45	6	6,8	0,05	2,4				
BL5	M5	490	892	600	4100	45	5	5,7	0,05	1,9				
CL5	M5	287	892	600	2500	45	3	3,4	0,03	1,4				
A5/520	M5	592	592	520	3400	50	6	3,8	0,05	2	9	8	987	D
B5/520	M5	490	592	520	2800	50	5	3	0,05	1,8				D
C5/520	M5	287	592	520	1700	50	3	1,9	0,03	1,2				D
C5 33/520	M5	287	287	520	800	50	3	1,9	0,02	0,7				D
A5 63/520	M5	592	287	520	1700	50	6	1,8	0,03	1,2				D
A5 65/520	M5	592	490	520	2800	50	6	3	0,05	1,8				D
A5/370	M5	592	592	370	3400	65	6	2,7	0,05	1,8				E
B5/370	M5	490	592	370	2800	65	5	2,2	0,05	1,6				E
C5/370	M5	287	592	370	1700	65	3	1,3	0,03	1,2				E

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Model Name	Filter class	Width	Height	Depth	Airflow m3/h	Pressure drop	Bags	Area m2	Volume m3	Weight kg	Initiabff. %	ME %*	Energy consumption kWh/y**	Energy class***
C5 33/520	M5	287	287	370	800	65	3	0,7	0,02	0,8				E
A5 36/520	M5	592	287	370	1700	65	6	1,3	0,03	1,2				E
A5 65/370	M5	592	490	370	2800	65	6	2,2	0,05	1,6				E
A6	M6	592	592	600	3400	60	6	4,5	0,03	1,9	26	23	1269	D
B6	M6	490	592	600	2800	60	5	3,6	0,03	1,6				D
C6	M6	287	592	600	1700	60	3	2,3	0,02	1,1				D
C6 33	M6	287	287	600	800	60	3	1,1	0,02	0,7				D
A6 63	M6	592	287	600	1700	60	6	2,3	0,03	1,1				D
A6 65	M6	592	490	600	2800	60	6	3,6	0,03	1,6				D
A7 60+	F7	592	592	600	3400	130	6	4,5	0,03	1,9	66	60	1694	C
B7 60+	F7	490	592	600	2800	130	5	3,6	0,03	1,6				C
C7 60+	F7	287	592	600	1700	130	3	2,3	0,02	1,1				C
C7 33 60+	F7	287	287	600	800	130	3	1,1	0,02	0,7				C
A7 63 60+	F7	592	287	600	1700	130	6	2,3	0,03	1,1				C
A7 65 60+	F7	592	490	600	2800	130	6	3,6	0,03	1,6				C

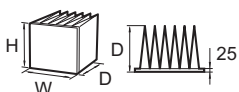
* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

Bag Filters

Hi-Flo UF



Advantages

- Comprehensive range of standard sizes
- New developed pocket design for the best air distribution
- Conical pockets
- Robust metal header frame
- High dust holding capacity

Application: Comfort air conditioning applications, pre filter applications.

Type: Multi pocket bag filter.

Case: Galvanised steel.

Media: Glass Fiber.

EN779:2012 efficiency: M5, M6, F7, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m3/h	Pressure drop	Bags	Area m2	Volume m3	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
UF5	M5	592	592	600	3400	40	8	6	0,03	2,9	9	8	585	A
UG5	M5	490	592	600	2800	40	6	4,5	0,03	2,4				A
UH5	M5	287	592	600	1700	40	4	3	0,02	1,5				A
UH5 33	M5	287	287	600	800	40	4	1,5	0,02	1				A
UF5 63	M5	592	287	600	1700	40	8	3	0,02	1,5				A
UF5 65	M5	592	490	600	2800	40	8	4,5	0,03	2,4				A
UF6	M6	592	592	600	3400	55	8	6	0,03	2,9	26	23	708	B
UG6	M6	490	592	600	2800	55	6	4,5	0,03	2,4				B
UH6	M6	287	592	600	1700	55	4	3	0,02	1,5				B
UH6 33	M6	287	287	600	800	55	4	1,5	0,02	1				B
UF6 63	M6	592	287	600	1700	55	8	3	0,02	1,5				B
UF6 65	M6	592	490	600	2800	55	8	4,5	0,03	2,4				B
UF6/520	M6	592	592	520	3400	60	8	5,2	0,05	2,6	26	23	846	C
UG6/520	M6	490	592	520	2800	60	6	3,9	0,05	2,4				C
UH6/520	M6	287	592	520	1700	60	4	2,5	0,03	1,5				C
UH6 33/520	M6	287	287	520	800	60	4	1,3	0,02	0,8				C
UF6 63/520	M6	592	287	520	1700	60	8	2,5	0,03	1,5				C
UF6 65/520	M6	592	490	520	2800	60	8	3,9	0,05	2,4				C

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

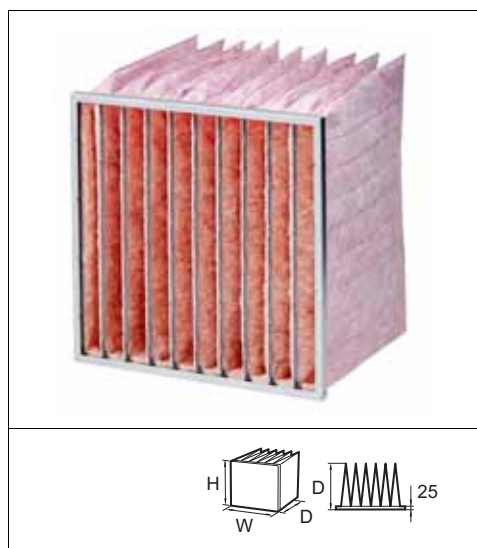
Model Name	Filter class	Width	Height	Depth	Airflow m3/h	Pressure drop	Bags	Area m2	Volume m3	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
UF6/370	M6	592	592	370	3400	80	8	3,6	0,05	2,4	26	23		E
UG6/370	M6	490	592	370	2800	80	6	2,7	0,05	2,1				E
UH6/370	M6	287	592	370	1700	80	4	1,8	0,03	1,5				E
UH6 33/370	M6	287	287	370	800	80	4	0,9	0,02	0,8				E
UF6 63/370	M6	592	287	370	1700	80	8	1,8	0,03	1,5				E
UF6 65/370	M6	592	490	370	2800	80	8	2,7	0,05	2,1				E
UF7 60+	F7	592	592	600	3400	110	8	6	0,03	2,9	66	60	1421	C
UF7 65 60+	F7	592	490	600	2800	110	8	4,5	0,03	2,4				C
UF7 63 60+	F7	592	287	600	1700	110	8	3	0,02	1,5				C
UH/ 33 60+	F7	287	287	600	800	110	4	1,5	0,02	1				C
UH7 60+	F7	287	592	600	1700	110	4	3	0,02	1,5				C
UG7 60+	F7	490	592	600	2800	110	6	4,5	0,03	2,4				C
UF7/520 60+	F7	592	592	520	3400	125	8	5,2	0,05	2,6	66	60	1639	C
UF7 65/520 60+	F7	592	490	520	2800	125	8	3,9	0,05	2,4				C
UF7 63/520 60+	F7	592	287	520	1700	125	8	2,5	0,03	1,5				C
UH7 33/520 60+	F7	287	287	520	800	125	4	1,3	0,03	1,5				C
UH7/520 60+	F7	287	592	520	1700	125	4	2,5	0,02	0,8				C
UG7/520 60+	F7	490	592	520	2800	125	6	3,9	0,05	2,4				C
UF7/370 60+	F7	592	592	370	3400	170	8	3,6	0,05	2,4	66	60	2454	E
UF7 63/370 60+	F7	592	287	370	1700	170	8	1,8	0,03	1,5				E
UF7 65/370 60+	F7	592	490	370	2800	170	8	2,7	0,05	2,1				E
UH7 33/370 60+	F7	287	287	370	800	170	4	0,9	0,02	0,8				E
UH7/370 60+	F7	287	592	370	1700	170	4	1,8	0,03	1,5				E
UG7/370 60+	F7	490	592	370	2800	170	6	2,7	0,05	2,1				E
UF9 80+	F9	592	592	600	3400	170	8	6	0,05	2,9	88	86	2134	C
UG9 80+	F9	490	592	600	2800	170	6	4,5	0,03	2,4				C
UH9 80+	F9	287	592	600	1700	170	4	3	0,03	1,5				C
UH9 33 80+	F9	287	287	600	800	170	4	1,5	0,02	1				C
UF9 63 80+	F9	592	287	600	1700	170	8	3	0,03	1,5				C
UF9 65 80+	F9	592	490	600	2800	170	8	4,6	0,03	2,4				C
UF9/520 80+	F9	592	592	520	3400	190	8	5,2	0,05	2,6	88	86	2457	C
UG9/520 80+	F9	490	592	520	2800	190	6	3,9	0,05	2,4				C
UH9/520 80+	F9	287	592	520	1700	190	4	2,5	0,03	1,5				C
UH9 33/520 80+	F9	287	287	520	800	190	4	0,9	0,02	0,8				C
UF9 63/520 80+	F9	592	287	520	1700	190	8	2,5	0,05	2,4				C
UF9 65/520 80+	F9	592	490	520	2800	190	8	3,9	0,05	2,4				C

* ME%: Minimum efficiency ref. to EN779:2012
 ** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014
 *** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Hi-Flo P



Advantages

- Large surface area
- Low pressure drop
- Comprehensive range of standard sizes
- Controlled media spacing (CMS)
- Certified performance

Application: Air conditioning applications.

Type: Extended surface multi pocket bag filter.

Case: Galvanised steel.

Media: Glass Fiber.

EN779:2012 efficiency: M6, F7, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
P6	M6	592	592	520	3400	55	10	6,2	0,05	2,9	23	23	698	B
Q6	M6	490	592	520	2800	55	8	5,1	0,05	2,4				B
R6	M6	287	592	520	1700	55	5	3,1	0,03	1,5				B
	M6	287	287	520	800	55	5	1,6	0,02	1,1				B
	M6	592	287	520	1700	55	10	3,1	0,03	1,5				B
	M6	592	490	520	2800	55	10	5,1	0,05	2,4				B
PL6	M6	592	892	520	5000	55	10	9,7	0,11	4,4				
QL6	M6	490	892	520	4100	55	8	7,8	0,11	4				
RL6	M6	287	892	520	2500	55	5	4,8	0,05	2,6				
P7 60+	F7	592	592	520	3400	105	10	6,2	0,05	2,6	67	60	1336	C
Q7 60+	F7	490	592	520	2800	105	8	5,1	0,05	2,3				C
R7 60+	F7	287	592	520	1700	105	5	3,1	0,03	1,6				C
	F7	287	287	520	800	105	5	1,6	0,02	1,1				C
	F7	592	287	520	1700	105	10	3,1	0,03	1,5				C
	F7	592	490	520	2800	105	10	5,1	0,05	2,4				C
PL7 60+	F7	592	892	520	5000	105	10	9,7	0,11	3,8				
QL7 60+	F7	490	892	520	4100	105	8	7,8	0,11	3,6				
RL7 60+	F7	287	892	520	2500	105	5	4,8	0,05	2,2				
P9 80+	F9	592	592	520	3400	160	10	6,2	0,05	2,5	87	85,6	2100	C
Q9 80+	F9	490	592	520	2800	160	8	5,1	0,05	2,4				C
R9 80+	F9	287	592	520	1700	160	5	3,1	0,03	1,5				C
	F9	287	287	520	800	160	5	1,6	0,02	1,1				C
	F9	592	287	520	1700	160	10	3,1	0,03	1,5				C
	F9	592	490	520	2800	160	10	5,1	0,05	2,4				C
PL9 80+	F9	592	892	520	5000	160	10	9,7	0,11	4,1				
QL9 80+	F9	490	892	520	4100	160	8	7,8	0,11	3,6				
RL9 80+	F9	287	892	520	2500	160	5	4,8	0,05	2,5				

* ME%: Minimum efficiency ref. to EN779:2012

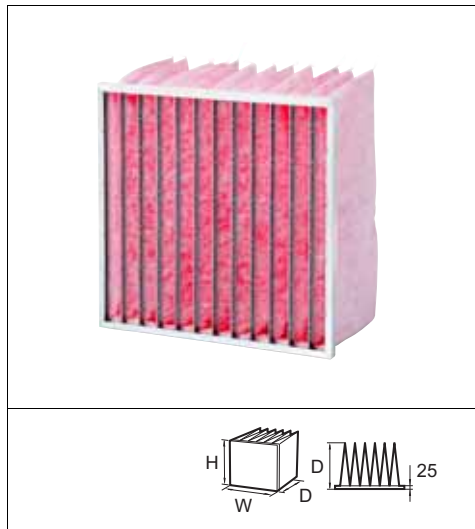
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Hi-Flo™



Advantages

- Large surface area
- Ultra compact
- Low pressure drop
- New developed pocket design for the best air distribution
- Conical pockets
- High dust holding capacity

Application: Air conditioning applications.

Type: Compact multi-pocket bag filter.

Case: Galvanised steel.

Media: Glass Fiber.

EN779:2012 efficiency: M6, F7, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Holding frames: Front and side access housings and frames are available, Type 8, Type L, and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
TM6	M6	592	592	370	3400	60	12	5,5	0,05	2,55	23	23	1345	D
TN6	M6	490	592	370	2800	60	10	4,5	0,05	2,15				D
TO6	M6	287	592	370	1700	60	6	2,7	0,025	1,4				D
TO6 33	M6	287	287	370	800	60	6	1,3	0,02	0,8				D
TM6 63	M6	592	287	370	1700	60	12	2,7	0,025	1,4				D
TM6 65	M6	592	490	370	2800	60	12	4,5	0,051	2,15				D
TOL6	M6	287	892	370	2500	60	6	4	0,05	1,4				
TNL6	M6	490	892	370	4100	60	10	6,8	0,05	2,6				
TML6	M6	592	892	370	5000	60	12	8,1	0,1	2,9				
TM7 60+	F7	592	592	370	3400	130	12	5,5	0,05	2,3	67	60	1793	D
TN7 60+	F7	490	592	370	2800	130	10	4,5	0,05	2,05				D
TO7 60+	F7	287	592	370	1700	130	6	2,7	0,025	1,35				D
TO7 33 60+	F7	287	287	370	800	130	6	1,3	0,02	0,8				D
TM7 63 80+	F7	592	287	370	1700	130	12	2,7	0,025	1,4				D
TM7 65 80+	F7	592	490	370	2800	130	12	4,5	0,05	2,15				D
TOL7 60+	F7	287	892	370	2500	130	6	4	0,05	1,5				
TNL7 60+	F7	490	892	370	4100	130	10	6,8	0,05	2,2				
TML7 60+	F7	592	892	370	5000	130	12	8,1	0,1	2,5				
TM9 80+	F9	592	592	370	3400	230	12	5,5	0,05	2,25	87,3	85,6	2952	D
TN9 80+	F9	490	592	370	2800	230	10	4,5	0,05	2				D
TO9 80+	F9	287	592	370	1700	230	6	2,7	0,025	1,35				D
TO9 33 80+	F9	287	287	370	800	230	6	1,3	0,02	0,8				D
TM9 63 80+	F9	592	287	370	1700	230	12	2,7	0,025	1,4				D
TM9 65 80+	F9	592	490	370	2800	230	12	4,5	0,05	2,15				D
TOL9 80+	F9	287	892	370	2500	230	6	4	0,05	1,5				
TNL9 80+	F9	490	892	370	4100	230	10	6,8	0,05	2,2				
TML9 80+	F9	592	892	370	5000	230	12	8,1	0,1	2,5				

* ME%: Minimum efficiency ref. to EN779:2012

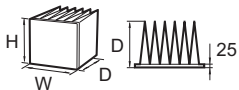
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Cam-Flo



Advantages

- Filter material of newly-developed plastic fibre media
- Low initial pressure loss, flat development
- Newly-developed seam technique for better air distribution
- Conical pockets and self-supporting bags
- High mechanical strength
- Dust holding capacity

Applications: Air filtering in standard ventilation systems for heavy-duty industrial installations

Type frame: Metal

Media: Plastic fiber in a combination of polypropylene and polyester.

EN779:2012 efficiency: M6, F7, F9

Temperature: Max. 70°C under continuous operation

Air flow: Nominal air flow +25% to a final pressure fall of max. 600 Pa.

Air humidity: 90% RH max.

Packaging: Biodegradable corrugated cardboard, with effective handle. We subscribe to the REPA register. Plastic bag for used filter media included.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
6	M6	592	592	640	3400	60	10	7,5	0,06	3,2	33	22	895	C
6	M6	490	592	640	2850	60	8	6,3	0,06	2,9				C
6	M6	287	592	640	1700	60	5	3,8	0,04	2,1				C
6	M6	592	592	520	3400	70	10	6,1	0,06	3	33	22	1175	D
6	M6	490	592	520	2850	70	8	5,1	0,06	2,7				D
6	M6	287	592	520	1700	70	5	3,1	0,04	2				D
7 50+	F7	592	592	640	3400	90	10	7,5	0,06	3,2	62	58	1074	B
7 50+	F7	490	592	640	2850	90	8	6,3	0,06	2,9				B
7 50+	F7	287	592	640	1700	90	5	3,8	0,04	2,1				B
7 50+	F7	592	592	520	3400	105	10	6,1	0,06	3	62	58	1157	B
7 50+	F7	490	592	520	2850	105	8	5,1	0,06	2,7				B
7 50+	F7	287	592	520	1700	105	5	3,1	0,04	2				B
9 70+	F9	592	592	640	3400	106	10	7,5	0,06	3,2	72	71	1450	A
9 70+	F9	490	592	640	2850	106	8	6,3	0,06	2,9				A
9 70+	F9	287	592	640	1700	106	5	3,8	0,04	2,1				A
9 70+	F9	592	592	520	3400	120	10	6,1	0,06	3	72	71	1558	B
9 70+	F9	490	592	520	2850	120	8	5,1	0,06	2,7				B
9 70+	F9	287	592	520	1700	120	5	3,1	0,04	2				B

* ME%: Minimum efficiency ref. to EN779:2012

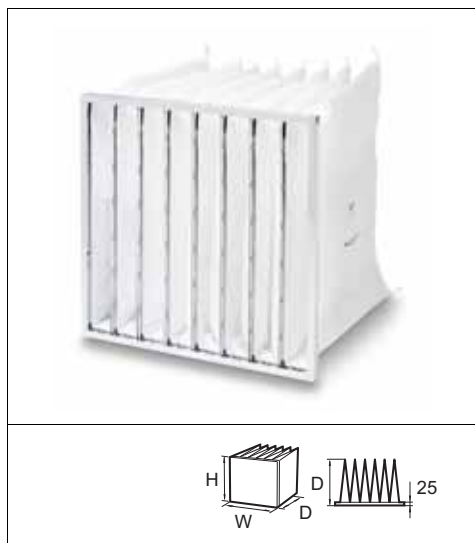
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag Filters

Basic-Flo



Advantages

- Economy version
- Quick and easy mounting
- Conical bags for optimised performance
- Sturdy metal header frame

Application: Comfort air conditioning applications, prefilter applications

Type: Multi pocket bag filter

Frame: Galvanised steel, 25mm

Media: Synthetic fiber.

EN779:2012 efficiency: M5, M6, F7.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Maximum air flow: 1,25 x nominal air flow

Temperature / Humidity: 70°C maximum in continuous service.

Mounting: Frame type 4MP or housings FC-HF / FKDA

Remarks: Also available with plastic frame, 25mm



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
A5	M5	592	592	600	3400	50	6	4,5	0,05	2,4	19	6,6	859	C
B5	M5	490	592	600	2800	50	5	3,6	0,05	2,1				C
C5	M5	287	592	600	1700	50	3	2,3	0,035	1,5				C
A5 63	M5	592	287	600	1700	50	6	2,3	0,035	1,5				C
A5 65	M5	592	490	600	2800	50	6	3,6	0,05	2,1				C
C5 33	M5	287	287	600	800	50	3	1,1	0,02	0,8				C
A5/520	M5	592	592	520	3400	55	6	3,7	0,05	2	17	6,6	963	D
B5/520	M5	490	592	520	2800	55	5	3	0,05	1,8				D
C5/520	M5	287	592	520	1700	55	3	1,8	0,035	1,2				D
A5 63/520	M5	592	287	520	1700	55	6	1,8	0,035	1,2				D
A5 65/520	M5	592	490	520	2800	55	6	3	0,05	1,8				D
C5 33/520	M5	287	287	520	800	55	3	0,9	0,02	0,7				D
A5/370	M5	592	592	370	3400	60	6	2,6	0,05	1,8	11	6,6		E
B5/370	M5	490	592	370	2800	60	5	2,2	0,05	1,6				E
C5/370	M5	287	592	370	1700	60	3	1,3	0,035	1,2				E
A5 63/370	M5	592	287	370	1700	60	6	1,3	0,035	1,2				E
A5 65/370	M5	592	490	370	2800	60	6	2,2	0,05	1,6				E
C5 33/370	M5	287	287	370	800	60	3	0,6	0,02	0,7				E
A6	M6	592	592	600	3400	60	6	4,5	0,05	2,4	34	23	1 447	E
B6	M6	490	592	600	2800	60	5	3,6	0,05	2,1				E
C6	M6	287	592	600	1700	60	3	2,3	0,035	1,5				E
A6 63	M6	592	287	600	1700	60	6	2,3	0,035	1,5				E

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015



Bag Filters

Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
A6 65	M6	592	490	600	2800	60	6	3,6	0,05	2,1				E
C6 33	M6	287	287	600	800	60	3	1,1	0,02	0,8				E
A6/520	M6	592	592	520	3400	65	6	3,7	0,05	2	34	23	1 803	E
B6/520	M6	490	592	520	2800	65	5	3	0,05	1,8				E
C6/520	M6	287	592	520	1700	65	3	1,8	0,035	1,2				E
A6 63/520	M6	592	287	520	1700	65	6	1,8	0,035	1,2				E
A6 65/520	M6	592	490	520	2800	65	6	3	0,05	1,8				E
C6 33/520	M6	287	287	520	800	65	3	0,9	0,02	0,7				E
A6/370	M6	592	592	370	3400	85	6	2,6	0,05	1,8	32	23		E
B6/370	M6	490	592	370	2800	85	5	2,2	0,05	1,6				E
C6/370	M6	287	592	370	1700	85	3	1,3	0,035	1,2				E
A6 63/370	M6	592	287	370	1700	85	6	1,3	0,035	1,2				E
A6 65/370	M6	592	490	370	2800	85	6	2,2	0,05	1,6				E
C6 33/370	M6	287	287	370	800	85	3	0,6	0,02	0,7				E
A7 35+	F7	592	592	600	3400	120	6	4,5	0,05	2,4	76	35	1 468	C
B7	F7	490	592	600	2800	120	5	3,6	0,05	2,1				C
C7	F7	287	592	600	1700	120	3	2,3	0,035	1,5				C
A7 63	F7	592	287	600	1700	120	6	2,3	0,035	1,5				C
A7 65	F7	592	490	600	2800	120	6	3,6	0,05	2,1				C
C7 33	F7	287	287	600	800	120	3	1,1	0,02	0,8				C
A7/520 35+	F7	592	592	520	3400	135	6	3,7	0,05	2	70	35	1 782	D
B7/520	F7	490	592	520	2800	135	5	3	0,05	1,8				D
C7/520	F7	287	592	520	1700	135	3	1,8	0,035	1,2				D
A7 63/520	F7	592	287	520	1700	135	6	1,8	0,035	1,2				D
A7 65/520	F7	592	490	520	2800	135	6	3	0,05	1,8				D
C7 33/520	F7	287	287	520	800	135	3	0,9	0,02	0,7				D
A7/370 35+	F7	592	592	370	3400	185	6	2,6	0,05	1,8	67	35	2 566	E
B7/370	F7	490	592	370	2800	185	5	2,2	0,05	1,6				E
C7/370	F7	287	592	370	1700	185	3	1,3	0,035	1,2				E
A7 63/370	F7	592	287	370	1700	185	6	1,3	0,035	1,2				E
A7 65/370	F7	592	490	370	2800	185	6	2,2	0,05	1,6				E
C7 33/370	F7	287	287	370	800	185	3	0,6	0,02	0,7				E
UF7 C 35+	F7	592	592	600	3400	110	8	6	0,05	2,6	77	35	1 502	C
UG7	F7	490	592	600	2800	110	6	4,5	0,05	2,4				C
UH7	F7	287	592	600	1700	110	4	3	0,035	1,5				C
UF7 63	F7	592	287	600	1700	110	8	1,5	0,035	1,5				C
UF7 65	F7	592	490	600	2800	110	8	3	0,05	2,4				C
UH7 33	F7	287	287	600	800	110	4	4,5	0,02	0,8				C
UF7/520 35+	F7	592	592	520	3400	120	8	5,2	0,05	2,6	71	35	1 482	C
UG7/520	F7	490	592	520	2800	120	6	3,9	0,05	2,4				C
UH7/520	F7	287	592	520	1700	120	4	2,5	0,035	1,5				C
UF7 63/520	F7	592	287	520	1700	120	8	2,5	0,035	1,5				C
UF7 65/520	F7	592	490	520	2800	120	8	3,9	0,05	2,4				C
UH7 33/520	F7	287	287	520	800	120	4	1,3	0,02	0,8				C
UF7/370 35+	F7	592	592	370	3400	150	8	3,6	0,05	2,4	70	35	1 920	D
UG7/370	F7	490	592	370	2800	150	6	2,7	0,05	2,1				D
UH7/370	F7	287	592	370	1700	150	4	1,8	0,035	1,5				D
UF7 63/370	F7	592	287	370	1700	150	8	1,8	0,035	1,5				D
UF7 65/370	F7	592	490	370	2800	150	8	2,7	0,05	2,1				D
UH7 33/370	F7	287	287	370	800	150	4	0,9	0,02	0,8				D

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

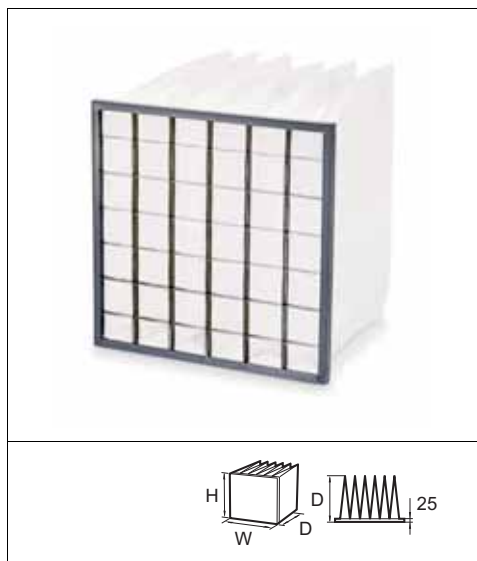
Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Bag Filters

Basic-Flo Green



Advantages

- Economy version
- Quick and easy mounting
- Optimized filter area with conical filter bags
- Incinerable

Applications: Filtration of fresh air or recirculated air in the climate controlled spaces

Type: Multi pocket bag filter

Frame: Plastic frame, 25 mm

Media: Synthetic fiber.

EN779:2012 efficiency: M5, M6, F7.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Maximum air flow: 1,25 x nominal air flow

Temperature / Humidity: 70°C maximum in continuous service

Remarks: Also available with metal frame, 25mm



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
A5	M5	592	592	600	3400	50	6	4,5	0,05	2,4	19	6,6	859	C
B5	M5	490	592	600	2800	50	5	3,6	0,05	2,1				C
C5	M5	287	592	600	1700	50	3	2,3	0,035	1,5				C
A5 63	M5	592	287	600	1700	50	6	2,3	0,035	1,50				C
A5 65	M5	592	490	600	2800	50	6	3,6	0,050	2,10				C
C5 33	M5	287	287	600	800	50	3	1,1	0,020	0,80				C
A5/520	M5	592	592	520	3400	55	6	3,7	0,050	2,00	17	6,6	963	D
B5/520	M5	490	592	520	2800	55	5	3	0,050	1,80				D
C5/520	M5	287	592	520	1700	55	3	1,8	0,035	1,20				D
A5 63/520	M5	592	287	520	1700	55	6	1,8	0,035	1,20				D
A5 65/520	M5	592	490	520	2800	55	6	3	0,050	1,80				D
C5 33/520	M5	287	287	520	800	55	3	0,9	0,020	0,70				D
A5/370	M5	592	592	370	3400	60	6	2,6	0,050	1,80	11	6,6		E
B5/370	M5	490	592	370	2800	60	5	2,2	0,050	1,60				E
C5/370	M5	287	592	370	1700	60	3	1,3	0,035	1,20				E
A5 63/370	M5	592	287	370	1700	60	6	1,3	0,035	1,20				E
A5 65/370	M5	592	490	370	2800	60	6	2,2	0,050	1,60				E
C5 33/370	M5	287	287	370	800	60	3	0,6	0,020	0,70				E
A6	M6	592	592	600	3400	60	6	4,5	0,050	2,40	34	23	1 447	E

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015



Bag Filters

Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initiaeff. %	ME %*	Energy consumption kWh/y**	Energy class***
B6	M6	490	592	600	2800	60	5	3,6	0,050	2,10				E
C6	M6	287	592	600	1700	60	3	2,3	0,035	1,50				E
A6 63	M6	592	287	600	1700	60	6	2,3	0,035	1,50				E
A6 65	M6	592	490	600	2800	60	6	3,6	0,050	2,10				E
C6 33	M6	287	287	600	800	60	3	1,1	0,020	0,80				E
A6/520	M6	592	592	520	3400	65	6	3,7	0,050	2,00	34	23	1 803	E
B6/520	M6	490	592	520	2800	65	5	3	0,050	1,80				E
C6/520	M6	287	592	520	1700	65	3	1,8	0,035	1,20				E
A6 63/520	M6	592	287	520	1700	65	6	1,8	0,035	1,20				E
A6 65/520	M6	592	490	520	2800	65	6	3	0,050	1,80				E
C6 33/520	M6	287	287	520	800	65	3	0,9	0,020	0,70				E
A6/370	M6	592	592	370	3400	85	6	2,6	0,050	1,80	32	23		E
B6/370	M6	490	592	370	2800	85	5	2,2	0,050	1,60				E
C6/370	M6	287	592	370	1700	85	3	1,3	0,035	1,20				E
A6 63/370	M6	592	287	370	1700	85	6	1,3	0,035	1,20				E
A6 65/370	M6	592	490	370	2800	85	6	2,2	0,050	1,60				E
C6 33/370	M6	287	287	370	800	85	3	0,6	0,020	0,70				E
A7 35+	F7	592	592	600	3400	120	6	4,5	0,050	2,40	76	35	1 468	C
B7	F7	490	592	600	2800	120	5	3,6	0,050	2,10				C
C7	F7	287	592	600	1700	120	3	2,3	0,035	1,50				C
A7 63	F7	592	287	600	1700	120	6	2,3	0,035	1,50				C
A7 65	F7	592	490	600	2800	120	6	3,6	0,050	2,10				C
C7 33	F7	287	287	600	800	120	3	1,1	0,020	0,80				C
A7/520 35+	F7	592	592	520	3400	135	6	3,7	0,050	2,00	70	35	1 782	D
B7/520	F7	490	592	520	2800	135	5	3	0,050	1,80				D
C7/520	F7	287	592	520	1700	135	3	1,8	0,035	1,20				D
A7 63/520	F7	592	287	520	1700	135	6	1,8	0,035	1,20				D
A7 65/520	F7	592	490	520	2800	135	6	3	0,050	1,80				D
C7 33/520	F7	287	287	520	800	135	3	0,9	0,020	0,70				D
A7/370 35+	F7	592	592	370	3400	185	6	2,6	0,050	1,80	67	35	2 566	E
B7/370	F7	490	592	370	2800	185	5	2,2	0,050	1,60				E
C7/370	F7	287	592	370	1700	185	3	1,3	0,035	1,20				E
A7 63/370	F7	592	287	370	1700	185	6	1,3	0,035	1,20				E
A7 65/370	F7	592	490	370	2800	185	6	2,2	0,050	1,60				E
C7 33/370	F7	287	287	370	800	185	3	0,6	0,020	0,70				E
UF7 C 35+	F7	592	592	600	3400	110	8	6	0,050	2,60	77	35	1 502	C
UG7	F7	490	592	600	2800	110	6	4,5	0,050	2,40				C
UH7	F7	287	592	600	1700	110	4	3	0,035	1,50				C
UF7 63	F7	592	287	600	1700	110	8	1,5	0,035	1,50				C
UF7 65	F7	592	490	600	2800	110	8	3	0,050	2,40				C
UH7 33	F7	287	287	600	800	110	4	4,5	0,020	0,80				C
UF7/520 35+	F7	592	592	520	3400	120	8	5,2	0,050	2,60	71	35	1 482	C
UG7/520	F7	490	592	520	2800	120	6	3,9	0,050	2,40				C
UH7/520	F7	287	592	520	1700	120	4	2,5	0,035	1,50				C
UF7 63/520	F7	592	287	520	1700	120	8	2,5	0,035	1,50				C
UF7 65/520	F7	592	490	520	2800	120	8	3,9	0,050	2,40				C
UH7 33/520	F7	287	287	520	800	120	4	1,3	0,020	0,80				C
UF7/370 35+	F7	592	592	370	3400	150	8	3,6	0,050	2,40	70	35	1 920	D
UG7/370	F7	490	592	370	2800	150	6	2,7	0,050	2,10				D
UH7/370	F7	287	592	370	1700	150	4	1,8	0,035	1,50				D
UF7 63/370	F7	592	287	370	1700	150	8	1,8	0,035	1,50				D
UF7 65/370	F7	592	490	370	2800	150	8	2,7	0,050	2,10				D
UH7 33/370	F7	287	287	370	800	150	4	0,9	0,020	0,80				D

* ME%: Minimum efficiency ref. to EN779:2012

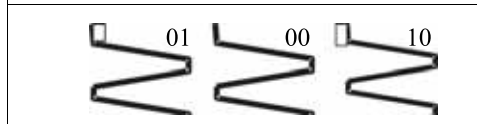
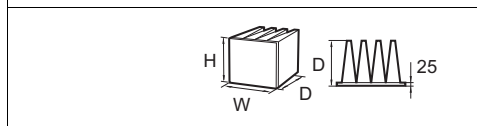
** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Compact Filters

Opakfil ES



Advantages

- Long operating life
- Light and robust
- Very low Energy Consumption
- Less frequent changes
- Certified performance optimised for LCC
- Aerodynamic radial design

Application: Air conditioning applications and preparatory filtration in clean rooms.

Type: High efficiency, incinerable filter.

Frame: 25mm thick flange, polypropylene and ABS.

Media: Glass fiber paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN779:2012 efficiency: M6, F7, F8, F9.

Recommended final pressure drop: 450 Pa (suggested economical change point 350 Pa).

Temperature: 70°C maximum in continuous service.

Mounting system: Front and side access housing and frames are available, Type 8, Type L and FC housings.



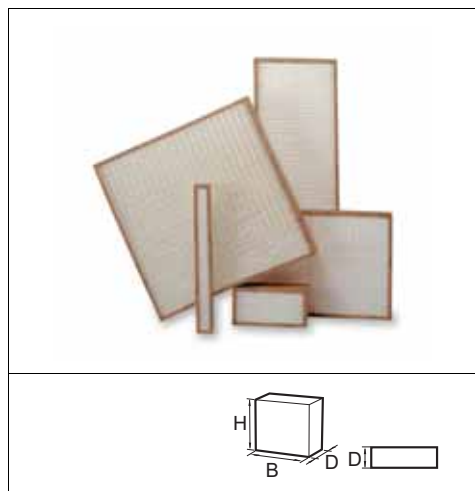
Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initialeff. %	ME %*	Energy consumption kWh/y**	Energy class***
ES 6	M6	592	592	296	3400	60	17	0,11	5	23	23	900	C
ES 6	M6	592	490	296	2800	60	14	0,09	4				C
ES 6	M6	592	287	296	1700	60	8	0,05	3				C
ES 7	F7	592	592	296	3400	65	17	0,11	5	44	44	782	A+
ES 7	F7	592	490	296	2800	65	14	0,09	4				A+
ES 7	F7	592	287	296	1700	65	8	0,05	3				A+
ES 8	F8	592	592	296	3400	75	17	0,11	5	63	62	948	A+
ES 8	F8	592	490	296	2800	75	14	0,09	4				A+
ES 8	F8	592	287	296	1700	75	8	0,05	3				A+
ES 9	F9	592	592	296	3400	90	17	0,11	5	79	78	1163	A+
ES 9	F9	592	490	296	2800	90	14	0,09	4				A+
ES 9	F9	592	287	296	1700	90	8	0,05	3				A+

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

Ecopleat Eco



Advantages

- Ultra compact
- Full-combustible
- Large surface area
- Long operating life
- Less frequent changes

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules, ventilation equipment.

Type: High efficiency compact filter.

Frame: Water resistant cardboard.

Media: Wet-laid glass fiber paper.

Separator: Hot melt glue.

Sealant: Polyurethane.

EN779:2012 filter class: M5, M6, F7 and F8.

Recommended final pressure drop: 350 Pa (suggested economical change point 250 Pa).

Temperature: 70°C.

Relative humidity: 100% RH.



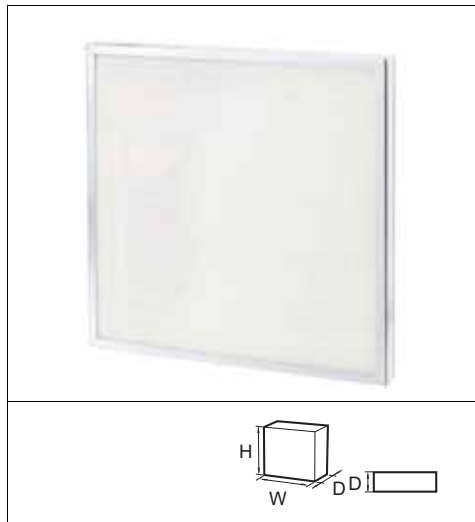
Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
Eco	M5	592	592	48	1900	50	5,3	0,02	3		
Eco	M5	592	592	96	2900	60	9,3	0,04	4		
Eco	M6	592	592	48	1900	60	5,3	0,02	3		
Eco	M6	592	592	96	2900	70	9,3	0,04	4		
Eco	F7	592	592	48	1900	90	5,8	0,02	3	48	45
Eco	F7	592	592	96	2900	90	10,2	0,04	4	48	45
Eco	F8	592	592	48	1900	110	6,4	0,02	3	79	76
Eco	F8	592	592	96	2900	105	11,6	0,04	4	79	76

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

High Efficiency Panels

Ecopleat Metal



Advantages

- Large surface area
- Savings in operating costs
- Less frequent changes
- Ultra compact
- High dust holding capacity

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules.

Type: High efficiency compact filter.

Frame: Galvanised steel.

Media: Wet-bid glass fiber paper.

Separator: Hot-melt beads.

EN779:2012 filter class: M5, M6, F7 and F8.

Recommended final pressure drop: 350 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Fire rating: DIN 53438 Class F1.

Option: Fresh air (AN) with a reinforced grid: Upgrade your G4 and increased lifetime.

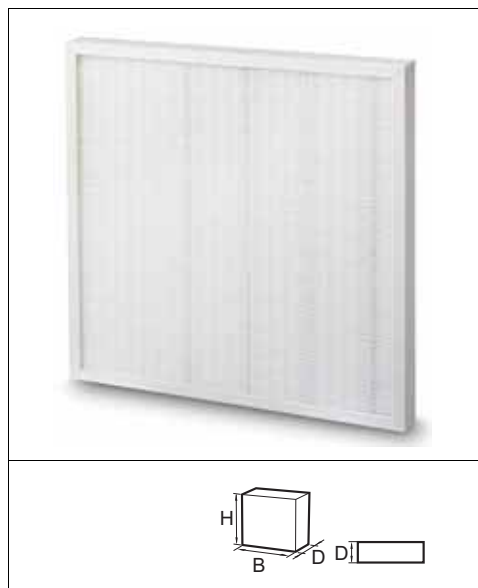


Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
Metal	M5	287	592	50	1450	65	2,8	0,01	2		
Metal	M5	592	592	50	2900	65	5,3	0,02	4		
Metal	M6	287	592	50	1450	75	2,7	0,01	2		
Metal	M6	592	592	50	2900	75	5,3	0,02	4		
Metal	F7	287	592	50	1450	120	2,9	0,01	2	48	45
Metal	F7	592	592	50	2900	120	5,8	0,02	4	48	45
Metal	F7	592	592	98	2900	90	11,5	0,04	5	48	45

* ME%: Minimum efficiency ref. to EN779:2012

High Efficiency Panels

Ecopleat Green



Advantages

- Large surface area
- Long operating life
- Ultra compact and ultra light
- Less frequent changes
- CREO Approved

Application: Air conditioning or industrial processing systems and for mini air conditioning systems, individual modules, ventilation equipment.

Type: High efficiency compact filter.

Frame: Plastic frame.

Media: Wet-laid glass fiber paper.

Separator: Hot melt glue.

Sealant: Polyurethane.

EN779:2012 filter class: M5, M6, F7 and F8.

Recommended final pressure drop: 350 Pa (suggested economical change point 250 Pa).

Temperature: 70°C.

Relative humidity: 100% RH.



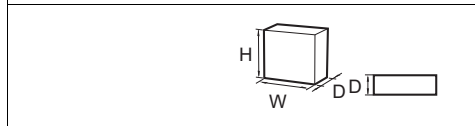
Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
Green	M5	592	592	48	2900	65	5,3	0,02	3		
Green	M5	287	592	48	1450	65	2,8	0,01	1,5		
Green	M5	305	610	48	1600	65	2,9	0,01	1,5		
Green	M5	610	610	48	3200	65	5,6	0,02	3		
Green	M5	592	592	96	2900	60	10,2	0,04	4		
Green	M6	592	592	48	2900	75	5,3	0,02	3		
Green	M6	592	592	96	2900	70	10,2	0,04	4		
Green	M6	287	592	48	1450	75	2,7	0,01	1,5		
Green	M6	610	610	96	3200	70	10,9	0,04	4		
Green	F7	592	592	48	2900	120	5,8	0,02	3	48	45
Green	F7	592	592	96	2900	90	11,5	0,04	4	48	45
Green	F7	287	592	96	1500	90	5,7	0,02	3	48	45
Green	F7	305	610	48	1600	120	3,1	0,01	1,5	48	45
Green	F7	610	610	48	3200	120	6,2	0,02	3	48	45
Green	F7	287	592	48	1450	120	2,9	0,01	1,5	48	45
Green	F8	592	592	48	2900	160	6,3	0,02	3	79	76
Green	F8	592	592	96	2900	105	12,8	0,04	4	79	76

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

High Efficiency Panels

M-Pleat Green



Advantages

- Prefilter M5 according new EN779:2012
- Large filtration surface
- Low pressure drop
- High dust holding capacity (2 times more than a G4) = longer lifetime
- Robust and moisture resistant media
- Green and sustainable frame
- Ultra compact size
- IAQ improvement: M5 + F7 twice as much as G4 + F7

Application: Replacement of gravimetric filters, Air Handling Units, Industrial processes and individual modules (reducing plant energy and IAQ improvement)

Type: Ultra compact filter Classe M (EN779:2012)

Frame: Rugged ABS plastic

Media: Synthetic self-supporting

Efficiency EN779:2012: M5

Recommended final pressure drop: 300 Pa

Maximum airflow: 1.5 x nominal airflow

Temperature: 70°C in continuous maximum

Mounting system: Universal holding frame, slides

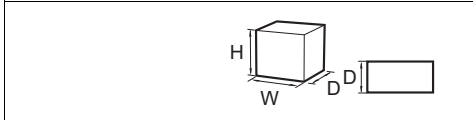
Options: Gasket

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Weight kg
M-Pleat Green	M5	287	592	48	1100	35	1,5	0,5
M-Pleat Green	M5	592	592	48	2200	35	2,9	0,8
M-Pleat Green	M5	305	610	48	1200	35	1,6	0,5
M-Pleat Green	M5	610	610	48	2400	35	3,1	0,9
M-Pleat Green	M5	287	592	96	1100	30	2	0,9
M-Pleat Green	M5	592	592	96	2200	30	3,9	1,5
M-Pleat Green	M5	305	610	96	1200	30	2,1	0,9
M-Pleat Green	M5	610	610	96	2400	30	4,1	1,6
Rooftop Article								
M-Pleat Green	M5	395	495	48	1300	35	1,7	0,6
M-Pleat Green	M5	495	495	48	1550	35	2	0,7
M-Pleat Green	M5	395	620	48	1550	35	2	0,7
M-Pleat Green	M5	495	620	48	1900	35	2,4	0,8

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Pleated Compact Filters

Airopac



Advantages

- Low pressure drop
- Robust metal header frame
- Large surface area
- Location dimples in frame ensure correct filter fitting
- Rigid design concept
- High dust holding capacity

Application: Air conditioning applications and preparatory filtration in clean rooms.

Type: High efficiency compact filter, HF model with header frame.

Case: Galvanised steel.

Media: Glass fiber paper.

Separator: Aluminium.

Sealant: Polyurethane.

EN779:2012 efficiency: M6, F7, F9.

Opacimetric efficiency: 85%.

Recommended final pressure drop: 450 Pa (suggested economical change point 250 Pa).

Temperature: 70°C maximum in continuous service.

Mounting system: Front and side access housing and frames are available, type 8, type L and FC housings.

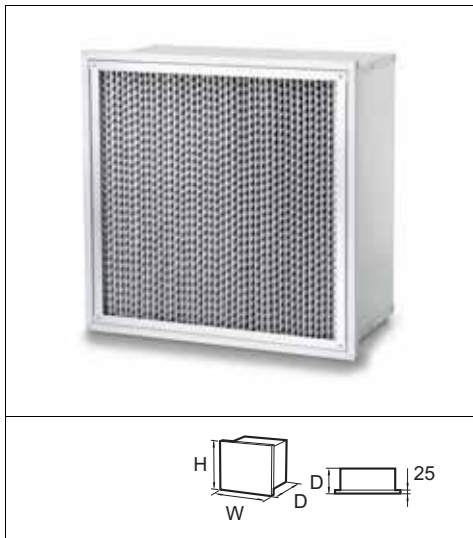
Model Name	Type	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME%*
3CPM-HF-2424 6-60	HF	M6	592	592	150	1300	25	6,5	0,072	5,8	18	18
3CPM-HF-1224 6-60	HF	M6	287	592	150	650	30	2,9	0,036	3,8		
3CPM-1224 6-60		M6	305	610	150	650	15	3,8	0,036	3,2		
3CPM-2424 6-60		M6	610	610	150	1300	15	7,8	0,072	5,1		
3CPM-HF-242412-60	HF	M6	592	592	292	2500	60	13,3	0,124	9	28,5	24
3CPM-HF-122412-60	HF	M6	287	592	292	1300	80	6,2	0,062	5,7		
3CPM-122412-60		M6	305	610	292	1300	50	7,7	0,062	5,3		
3CPM-242412-60		M6	610	610	292	2500	45	15,8	0,124	8,9		
3CPM-HF-2424 6-90	HF	F7	592	592	150	1300	60	6,5	0,072	5,8	50	48
3CPM-HF-1224 6-90	HF	F7	287	592	150	650	65	2,9	0,036	3,8		
3CPM-1224 6-90		F7	305	610	150	650	50	3,8	0,036	3,2		
3CPM-2424 6-90		F7	610	610	150	1300	50	7,8	0,072	5,1		
3CPM-HF-242412-90	HF	F7	592	592	292	2500	95	13,3	0,124	9	52	50
3CPM-HF-122412-90	HF	F7	287	592	292	1300	110	6,2	0,062	5,7		
3CPM-122412-90		F7	305	610	292	1300	80	7,7	0,062	5,3		
3CPM-242412-90		F7	610	610	292	2500	70	15,8	0,124	8,9		
3CPM-HF-242412-95	HF	F9	592	592	292	1800	80	12,6	0,128	9	76,3	73
3CPM-HF-122412-95	HF	F9	287	592	292	950	80	5,7	0,063	5,7		
3CPM-122412-95		F9	305	610	292	1050	85	7,8	0,063	5,3		
3CPM-242412-95		F9	610	610	292	2000	85	15,6	0,128	8,9		

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Pleated Compact Filters

Airopac High Temp



Advantages

- High efficiency
- High temperature
- Silicon free construction
- Compact design

Application: Paint bake ovens and other high temperature applications.

Type: High efficiency, high temperature, silicon free compact filter.

Frame: Galvanised steel.

Gasket: Glass fiber.

Media: Glass fibre paper.

Separator: Corrugated aluminium.

Sealant: Glass fiber.

Grille: Galvanised steel upstream and downstream.

EN779:2012 filter class: M6, F7, F8.

Recommended final pressure drop: 250 Pa.

Temperature: 260°C maximum continuous, 385°C peak during 1 hour.



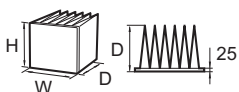
Model Name	Type	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
3CPM-HF-HT-60-2G-242412-1R	HF HT	M6	592	592	292	3000	105	12,6	0,128	8,3	28,5	24
3CPM-HT-60-2G-480/480/78-1R	HT	M6	480	480	78	800	25	2,5	0,072	2,1		
3CPM-HT-60-2G-122403-1R	HT	M6	305	610	78	750	30	2,1	0,023	2		
3CPM-HT-60-2G-242403-1R	HT	M6	610	610	78	1500	30	4,9	0,04	4		
3CPM-HT-60-2G-242406-1R	HT	M6	610	610	150	1700	30	7,8	0,072	5,6		
3CPM-HF-HT-60-2G-122412-1R	HF HT	M6	287	592	292	1500	115	5,7	0,063	4,4		
3CPM-HT-60-2G-122412-1R	HT	M6	305	610	292	1700	80	7,8	0,063	5,6		
3CPM-HT-60-2G-242412-1R	HT	M6	610	610	292	3400	75	15,9	0,128	9,5		
3CPM-HF-HT-90-2G-242412-1R	HF HT	F7	592	592	292	3000	150	12,6	0,128	8,3	52	50
3CPM-HT-M-90-2G-915/457/52-1R	HT	F7	915	457	52	2000	110	5,1	0,059	4,1		
3CPM-HT-M-90-2G-610/610/52-1R	HT	F7	610	610	52	1500	90	4,5	0,04	3,6		
3CPM-HT-90-2G-915/457/78-1R	HT	F7	915	457	78	2000	100	5,6	0,059	4,5		
3CPM-HT-90-2G-480/480/78-1R	HT	F7	480	480	78	800	80	2,6	0,04	2,1		
3CPM-HT-90-2G-122403-1R	HT	F7	305	610	78	750	80	2	0,023	2		
3CPM-HT-90-2G-242403-1R	HT	F7	610	610	78	1500	80	4,3	0,04	4		
3CPM-HT-90-2G- 915x 610x 78-1R	HT	F7	915	610	78	2250	80	5,9	0,059	6		
3CPM-HF-HT-90-2G-122412-1R	HF HT	F7	287	592	292	1500	155	5,7	0,063	4,4		
3CPM-HT-90-2G-122412-1R	HT	F7	305	610	292	1700	120	7,7	0,063	5,6		
3CPM-HT-90-2G-242412-1R	HT	F7	610	610	292	3400	110	15,9	0,128	9,5		
3CPM-HF-HT-95-2G-242412-1R	HF HT	F9	592	592	292	1800	80	12,6	0,128	8,3	76,3	73
3CPM-HF-HT-95-2G-122412-1R	HF HT	F9	287	592	292	950	80	5,7	0,063	4,4		
3CPM-HT-95-2G-122412-1R	HT	F9	305	610	292	1050	85	7,8	0,063	4,4		
3CPM-HT-95-2G-242412-1R	HT	F9	610	610	292	2000	85	15,6	0,128	9,5		

* ME%: Minimum efficiency ref. to EN779:2012



www.camfil.com

Hi-Flo ProSafe



Advantages

- Specially designed for Process Safety (Food, Life Science applications)
- The latest developed glass fibre media
- Low initial pressure drop
- Flat pressure drop curve
- New developed pocket design for the best air distribution
- Conical pockets
- Moulded, rigid and aerodynamic shaped plastic frame
- Less energy consumption
- Compliant to EC 1935:2004
- Compliant to VDI 6022 / ISO 846

Application: Air conditioning applications and as pre filters for clean rooms.

Type: Pocket filters with high efficiency.

Frame: PS plastic - moulded and combustible.

Media: Glass fiber.

EN779:2012 efficiency: M5, M6, F7, F9.

Temperature: 70°C maximum in continuous service.

Air flow: Nominell air flow $\pm 25\%$.

Packing: Hygenic packing in plastic bags. Outer packing: Environmental friendly cardboard boxes, easy to carry.

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
6/640	M6	592	592	640	3400	55	10	7.5	0.04	2.3	25	23	667	B
6/640	M6	490	592	640	2700	55	8	6	0.04	1.6				B
6/640	M6	287	592	640	1700	55	5	3.7	0.03	1.4				B
6/640	M6	287	287	640	800	55	5	1.9	0.01	0.8				B
6/640	M6	592	287	640	1700	55	10	3.7	0.03	1.4				B
6/640	M6	592	490	640	2700	55	10	6.2	0.04	1.6				B
6/640	M6	490	490	640	2330	55	8	5	0.04	1.3				B
6/520	M6	592	592	520	3400	60	10	6.1	0.04	2.2	25	23	755	B
6/520	M6	490	592	520	2700	60	8	4.9	0.04	1.4				B
6/520	M6	287	592	520	1700	60	5	3	0.03	1.3				B
6/520	M6	287	287	520	800	60	5	1.5	0.01	0.7				B
6/520	M6	592	287	520	1700	60	10	3	0.03	1.3				B
6/520	M6	592	490	520	2700	60	10	5	0.04	1.4				B
6/520	M6	490	490	520	2330	60	8	4	0.04	1.2				B
6/370	M6	592	592	370	3400	80	10	4.3	0.04	2	26	23	1371	D
6/370	M6	490	592	370	2700	80	8	3.5	0.04	1.3				D
6/370	M6	287	592	370	1700	80	5	2.2	0.03	1.2				D
6/370	M6	287	287	370	800	80	5	1.1	0.01	0.7				D

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

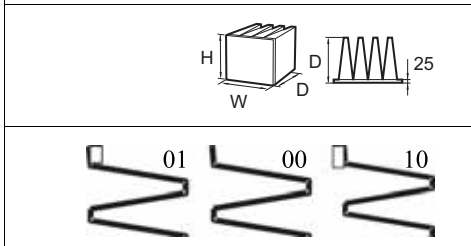
Product range ProSafe

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
6/370	M6	592	287	370	1700	80	10	2.1	0.03	1.2				D
6/370	M6	592	490	370	2700	80	10	3.6	0.04	1.2				D
6/370	M6	490	490	370	2330	80	8	2.9	0.04	1				D
7/640 50+	F7	592	592	640	3400	75	10	7.5	0.04	2.3	54	54	928	A
7/640 50+	F7	490	592	640	2700	75	8	6	0.04	1.6				A
7/640 50+	F7	287	592	640	1700	75	5	3.7	0.03	1.4				A
7/640 50+	F7	287	287	640	800	75	5	1.9	0.01	0.8				A
7/640 50+	F7	592	287	640	1700	75	10	3.7	0.03	1.4				A
7/640 50+	F7	592	490	640	2700	75	10	6.2	0.04	1.6				A
7/640 50+	F7	490	490	640	2330	75	8	5	0.04	1.3				A
7/520 50+	F7	592	592	520	3400	90	10	6.1	0.04	2.2	54	54	1101	B
7/520 50+	F7	490	592	520	2700	90	8	4.9	0.04	1.4				B
7/520 50+	F7	287	592	520	1700	90	5	3	0.03	1.3				B
7/520 50+	F7	287	287	520	800	90	5	1.5	0.01	0.7				B
7/520 50+	F7	592	287	520	1700	90	10	3	0.03	1.3				B
7/520 50+	F7	592	490	520	2700	90	10	5	0.04	1.4				B
7/520 50+	F7	490	490	520	2330	90	8	4	0.04	1.2				B
7/370 50+	F7	592	592	370	3400	120	10	4.3	0.04	2	56	54	1745	D
7/370 50+	F7	490	592	370	2700	120	8	3.5	0.04	1.3				D
7/370 50+	F7	287	592	370	1700	120	5	2.2	0.03	1.2				D
7/370 50+	F7	287	287	370	800	120	5	1.1	0.01	0.7				D
7/370 50+	F7	592	287	370	1700	120	10	2.1	0.03	1.2				D
7/370 50+	F7	592	490	370	2700	120	10	3.6	0.04	1.2				D
7/370 50+	F7	490	490	370	2330	120	8	2.9	0.04	1				D
9/640 80+	F9	592	592	640	3400	150	10	7.5	0.04	1.6	86	85.6	1660	B
9/640 80+	F9	490	592	640	2700	150	8	6	0.04	1.6				B
9/640 80+	F9	287	592	640	1700	150	5	3.7	0.03	1.4				B
9/640 80+	F9	287	287	640	800	150	5	1.9	0.01	0.8				B
9/640 80+	F9	592	287	640	1700	150	10	3.7	0.03	1.4				B
9/640 80+	F9	592	490	640	2700	150	10	6.2	0.04	1.6				B
9/640 80+	F9	490	490	640	2330	150	8	5	0.04	1.3				B
9/520 80+	F9	592	592	520	3400	180	10	6.1	0.04	2.2	88	85.6	2481	C
9/520 80+	F9	490	592	520	2700	180	8	4.9	0.04	1.4				C
9/520 80+	F9	287	592	520	1700	180	5	3	0.03	1.3				C
9/520 80+	F9	287	287	520	800	180	5	1.5	0.01	0.7				C
9/520 80+	F9	592	287	520	1700	180	10	3	0.03	1.3				C
9/520 80+	F9	592	490	520	2700	180	10	5	0.04	1.4				C
9/520 80+	F9	490	490	520	2330	180	8	4	0.04	1.2				C

* ME%: Minimum efficiency ref. to EN779:2012
 ** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014
 *** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Opakfil ProSafe



Advantages

- Specially designed for Process Safety (Food, Life Science application)
- Food compliant - EC1935:2004
- Anti-microbial growth certified (ISO846 - VDI6022)
- Sealed bag for transport through clean room
- The latest developed glass fiber media with high water repelancy
- QR code for a quick access to information and certificates
- The lower energy costs
- Resistance up to 5500 m3/h
- Light and easy maintenance (handles)
- Delivered in standard with continuous PU gasket for efficiency warranty

Application: Air conditioning applications and preparatory filtration in clean rooms.

Type: High efficiency, incinerable filter.

Frame: 25mm thick flange, polypropylene and ABS, robust and waterproof.

Media: Glass fiber paper.

Separator: Hot-melt beads.

Sealant: Polyurethane.

EN779:2012 efficiency: F7, F8, F9.

EN1822:2009 efficiency: E10.

Temperature: 70°C maximum in continuous service.

Packing: Hygienic packing in sealed plastic bag. Outer packing: environmental friendly cardboard boxes, easy to carry.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff*	Energy consumption kWh/y**	Energy Class***
Opakfil	F7	592	592	292	3400	75	19	0,11	4,5	52	974	B
Opakfil	F7	592	492	292	2800	75	15	0,09	4			
Opakfil	F7	592	287	292	1700	75	9	0,05	3			
Opakfil	F8	592	592	292	3400	80	19	0,11	4,5	59	1020	A
Opakfil	F8	592	492	292	2800	80	15	0,09	4			
Opakfil	F8	592	287	292	1700	80	9	0,05	3			
Opakfil	F9	592	592	292	3400	115	19	0,11	4,5	80	1529	C
Opakfil	F9	592	492	292	2800	115	15	0,09	4			
Opakfil	F9	592	287	292	1700	115	9	0,05	3			
Opakfil	E10	592	592	292	4000	250	19	0,11	6			
Opakfil	E10	592	492	292	3000	250	15	0,09	4,5			
Opakfil	E10	592	287	292	1700	250	9	0,05	3			

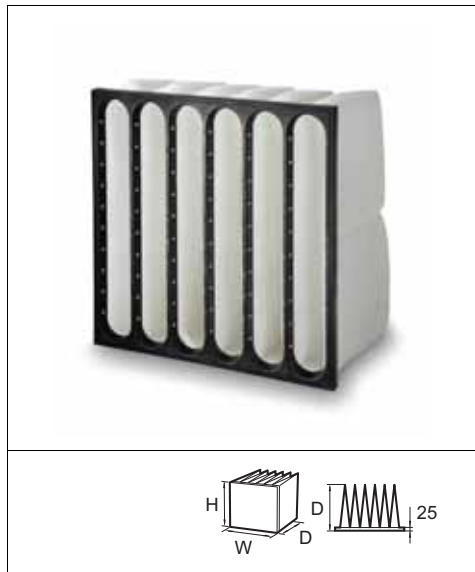
* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

*** Energy class: according to Eurovent RS 4/C/001-2015

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Hi-Cap ProSafe



Advantages

- Specially designed for Process Safety (Food, Life Science applications)
- Rigid self supporting pockets
- Moulded, stable and aerodynamic plastic header in one piece
- High mechanical strength
- Compliant to EC 1935:2004
- Compliant to VDI 6022 / ISO 846

Applications: Pre-filtration for removing the largest particles in an air conditioning system.

Type: Base filter with synthetic fibre bags and medium degree of separation.

Frame: PS plastic – one-piece and combustible.

Media: Polyester fiber.

Filter class according to EN779:2012: G4.

Maximum flow: 1.25 x nominal flow.

Temperature: Max. 70°C under continuous operation.

Packing: Hygenic packing in plastic bags. Outer packing: Environmental friendly cardboard boxes, easy to carry.



Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Filter area m ²	Unit weight kg	Unit volume m ³
4/520	G4	592	592	520	3400	30	3,7	1,2	0,04
4/520	G4	490	592	520	2700	30	3	1	0,04
4/520	G4	287	592	520	1700	30	1,8	0,7	0,03
4/520	G4	592	287	520	1700	30	1,8	0,7	0,03
4/520	G4	592	490	520	2700	30	3	1,1	0,04
4/370	G4	592	592	370	3400	35	2,6	1	0,04
4/370	G4	490	592	370	2700	35	2,2	0,9	0,04
4/370	G4	287	592	370	1700	35	1,3	0,6	0,03
4/370	G4	592	287	370	1700	35	1,3	0,6	0,03
4/370	G4	592	490	370	2700	35	2,2	0,9	0,04

Other dimensions are available on request - All dimensions are nominal.

Summary EPA/HEPA/ULPA Filters: E10 to U17



Filters for High Efficiency
Absolute™ C - CMM; CMT
Page 64



Filters for High Efficiency
Absolute™ DG
Page 65



Filters for High Efficiency
Absolute™ VG XL, XXL
Page 66



Filters for High Efficiency
Absolute™ VE XL, XXL
Page 67



Filters for High Efficiency
Absolute™ VE XL, XXL
Page 68



Filters for High Efficiency
Absolute™ VGHF
Page 69



Filters for High Efficiency
Absolute™ 1D
Page 70



Filters for High Efficiency
Absolute™ V ProSafe VGXL, XXL
Page 71



HEPA/ULPA Panels
Megalam MD, MX, MG
Page 72



HEPA/ULPA Panels
Megalam MD14, MX14, MG14 -1PU
Page 73



HEPA/ULPA Panels
Megalam MD14, MX14, MG14-GEL
Page 74



HEPA/ULPA Panels
Megalam MD15, MX15, MG15 -1PU
Page 75



HEPA/ULPA Panels
Megalam MD14/ME, MD15/ME, MX15/ME -1PU
Page 76



HEPA/ULPA Panels
Silent Hood filter MD14-HL
Page 77



Filter for High Temperature
Termikfil 2000
Page 78



Filter for High Temperature
Absolute™ 1FRK
Page 79



Filter for High Temperature
Absolute™ 1FRKV
Page 80



Filter for High Temperature
Absolute™ 1FRSI
Page 81

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Filters for High Efficiency

Absolute™ C - CMM; CMT



Advantages

- Compact design concept
- Very high efficiency
- Incinerable
- Scannable

Application: HEPA-Filter for standard applications

Type: HEPA-Filter Absolute™ C

Frame: MDF

Gasket: Half round continuous expanded polyurethane

Media: Glass fibre

Separators: Hot melt beads

Sealant: Polyurethane (2-K-sealant)

Efficiency acc. EN 1822: H13

MPPS efficiency: ≥ 99,95% at MPPS

Recommended final pressure drop: 600 Pa / max. 1000 Pa

Temperature / Humidity: 70°C / 100% RH

Remarks: All filters scan tested acc. EN 1822

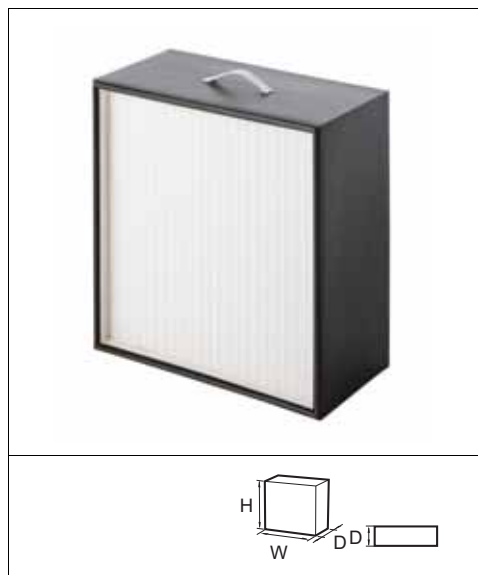


Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop*	Area m ²	Volume m ³	Weight kg
CMM13-305x305x292-P	H13	305	305	292	435	250	3,4	0,030	4
CMM13-305x610x292-P	H13	305	610	292	935	250	7,3	0,063	7,2
CMM13-457x457x292-P	H13	457	457	292	1050	250	8,5	0,128	8
CMM13-457x610x292-P	H13	457	610	292	1470	250	11,5	0,128	10
CMM13-610x610x292-P	H13	610	610	292	2050	250	16	0,128	13
CMM13-762x610x292-P	H13	762	610	292	2560	250	20	0,160	16,2
CMT13-305x305x292-P	H13	305	305	292	535	250	4,7	0,030	4
CMT13-305x610x292-P	H13	305	610	292	1155	250	10,1	0,063	7,2
CMT13-457x457x292-P	H13	457	457	292	1260	250	11,6	0,128	8
CMT13-457x610x292-P	H13	457	610	292	1800	250	15,8	0,128	10
CMT13-610x610x292-P	H13	610	610	292	2450	250	21,3	0,128	13
CMT13-762x610x292-P	H13	762	610	292	3110	250	27,1	0,160	16,2

* Pressure drop: ±10%
Type -1PU = gasket placed upstream

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Absolute™ DG



Advantages

- Rated airflow capacity of up to 3400 m³/h 610x610 (H13)
- Halogen free
- Low outgassing
- Flexible in the dimensions
- Lightweight and installation friendly
- VDI 6022
- Scannable

Application: HEPA-Filter for high air flows

Type: HEPA-Filter

Frame: ABS plastic with handle

Gasket: Half round continuous expanded polyurethane

Media: Glass fibre

Separators: Hot melt beads

Sealant: Polyurethane (2-K-sealant)

Recommended final pressure drop: 500 Pa / max. 1000 Pa

Efficiency acc. EN 1822: H13, H14

MPPS efficiency: ≥ 99,95%; 99,995% at MPPS

Temperature / Humidity: 70°C / 100% RH

Remarks: All filters scan tested acc. EN 1822:2009

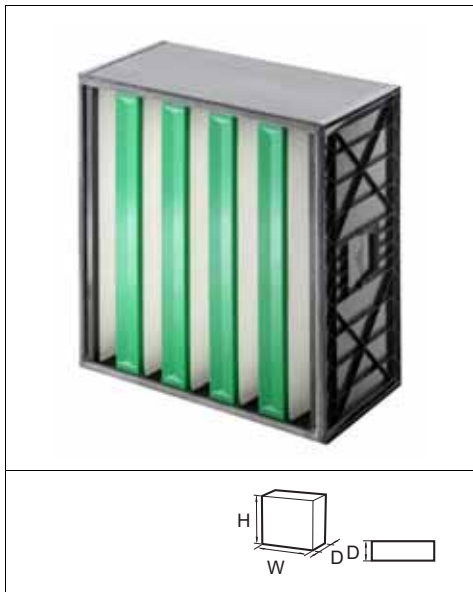
Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Volume m ³	Weight kg	Media m ²
DG13-305x610x292-P-0-I	H13	305	610	292	1600	250	0,06	8,5	19,5
DG13-610x610x292-P-0-I	H13	610	610	292	3400	250	0,12	12	37,75
DG13-762x610x292-P-0-I	H13	762	610	292	4250	250	0,14	15,5	48,41
DG14-305x610x292-P-0-I	H14	305	610	292	1350	290	0,06	8,5	19,5
DG14-610x610x292-P-0-I	H14	610	610	292	3200	290	0,12	12	37,75
DG14-762x610x292-P-0-I	H14	762	610	292	4100	290	0,14	15,5	48,41

Other dimensions on demand
*Pressure drop: +. 15%

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filters for High Efficiency

Absolute™ VG XL, XXL



Advantages

- High air flow
- Low pressure drop
- Optimized, compact construction
- High efficiency
- Halogen free
- VDI 6022
- Applicable up to 6000 m³/h air flow

Application: Very high efficiency final filtration in air conditioning systems, housings and diffusers with high airflows.

Type: EPA/HEPA-Filter

Frame: ABS plastic with ergonomic handle

Gasket: EPDM; one piece half round continuous gasket Ø15mm

Media: Glass fibre

Separators: Hot melt beads

Sealant: Polyurethane (2-K-sealant)

Efficiency acc. EN 1822: E10, E11, E12, H13, H14

MPPS efficiency: E10 > 85% - E11 > 95% - E12 > 99,5% - H13 > 99,95% - H14 > 99,995%

Final check: For H13 and H14 Filter there will be one test-report for each filter within the cardboard box

Maximum pressure drop: 600 Pa

Temperature / Humidity: 70°C / 100% RH

Mounting systems: Housing FKB, mounting frame 4N, CamSafe2

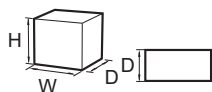
*CREO: Clean Room Energy Optimization program



Model Name	Filter Class	Width	Height	Depth	Media m ²	Air flow	Pressure drop	Volume m ³	Weight kg
VGXXL10-305x610x292-M	E10	305	610	292	13	2000	230	0,12	5
VGXXL10-610x610x292-M	E10	610	610	292	33	5000	230	0,22	11
VGXXL11-305x610x292-M	E11	305	610	292	13	2000	250	0,12	5
VGXXL11-610x610x292-M	E11	610	610	292	33	5000	250	0,22	11
VGXL12-305x610x292-M	E12	305	610	292	15	1500	245	0,12	5
VGXL12-610x610x292-M	E12	610	610	292	38	4000	250	0,22	11
VGXL13-289x595x292-M	H13	289	595	292	15	1300	250	0,12	5
VGXL13-305x610x292-M	H13	305	610	292	15	1500	250	0,12	5
VGXL13-595x595x292-M	H13	595	595	292	37	3200	250	0,22	11
VGXL13-610x610x292-M	H13	610	610	292	38	4000	240	0,22	11
VGXXL13-610x610x292-M	H13	610	610	292	38	5000	380	0,22	11
VGXXL13-762xX610x292-M	H13	762	610	292	46	6000	380	0,28	14
VGXL14-305x610x292-M	H14	305	610	292	15	1500	310	0,12	5
VGXL14-610x610x292-M	H14	610	610	292	38	4000	310	0,22	11

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Absolute™ VE XL, XXL



Advantages

- High air flow
- Ergonomic handle
- Applicable up to 5000 m³/h air flow
- Optimize the air filtration in clean rooms
- Low pressure drop

Application: Efficiency final filtration in air conditioning systems, housings and diffusers

Type: EPA filter.

Frame: Galvanised sheet metal with handle.

Media: Glass fibre.

Separator: Hot-melt beads.

Sealant: Polyurethane (2-K-sealant)

Gasket: EPDM, one piece half round continuous gasket Ø15mm

Filter class acc. EN1822:2009: E10, E11, E12

MPPS efficiency: E10:>85%, E11:>95%, E12:>99.5%

Maximum pressure drop: 600 Pa.

Temperature: 70°C / 100% RH

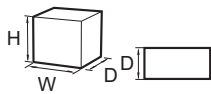
Mounting systems: Housing FKB, FKB/D, CamBox or CamSafe.

Remarks: special versions on request (e.g. stainless steel frame or high temperature version 120°C)

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
VEXL10-289x595x292-M	E10	289	595	292	1700	250	16	0,05	8,5
VEXL10-305x610x292-M	E10	305	610	292	2000	250	14	0,05	8,5
VEXL10-595x595x292-M	E10	595	595	292	4200	250	38	0,11	13
VEXL10-610x610x292-M	E10	610	610	292	4000	250	21	0,11	13
VEXXL11-305x610x292-M	E11	305	610	292	2000	250	14	0,05	14
VEXXL11-610x610x292-M	E11	610	610	292	5000	250	35,5	0,11	23
VEXL12-289x595x292-M	E12	289	595	292	1300	250	16	0,05	12
VEXL12-305x610x292-M	E12	305	610	292	1500	250	16	0,05	8,5
VEXL12-595x595x292-M	E12	595	595	292	3200	250	38	0,11	22
VEXL12-610x610x292-M	E12	610	610	292	4000	250	40	0,11	16,5

Filters for High Efficiency

Absolute™ VE XL, XXL



Advantages

- High air flow
- Applicable up to 4000 m³/h air flow
- Low pressure drop
- Ergonomic handle
- Optimize the air filtration in clean rooms
- Individual tested acc. to EN 1822:2009

Application: Very high efficiency final filtration in air conditioning systems, housings and diffusers.

Type: HEPA filter.

Frame: Galvanised sheet metal with handle

Gasket: EPDM, one piece half round continuous gasket Ø15mm

Media: Glass fibre.

Separator: Hot-melt beads.

Sealant: Polyurethane (2-K-sealant)

Filter class acc. EN1822:2009: H13, H14.

MPPS efficiency: H13:>99.95%, H14:> 99.995%.

Maximum pressure drop: 600 Pa.

Temperature / Humidity: 70°C / 100% RH.

Mounting systems: Housing FKB, FKB/D, CamBox or CamSafe.

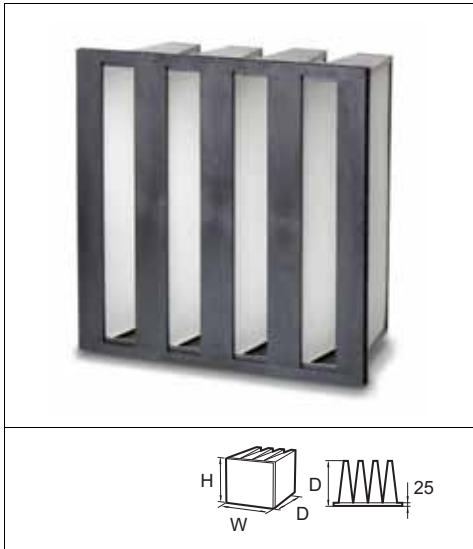
Remarks: Other versions on request.

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
VEXL13-289x595x292-M	H13	289	595	292	1300	250	16	0,06	8,5
VEXL13-305x610x292-M	H13	305	610	292	1500	250	16	0,06	8,5
VEXL13-595x595x292-M	H13	595	595	292	3200	250	38	0,11	15,5
VEXL13-610x610x292-M	H13	610	610	292	4000	250	40	0,11	16,5
VEXL14-305x610x292-M	H14	305	610	292	1400	280	16	0,06	8,5
VEXL14-610x610x292-M	H14	610	610	292	3500	270	40	0,11	16,5

Type -M = gasket placed on one side

Filters for High Efficiency

Absolute™ VGHF



Advantages

- Compact filter with header frame
- Up to 4000 m³/h air flow
- Incinerable

Application: High efficiency final filtration in air conditioning systems and industrial process.
Type: EPA- & HEPA-Filter.

Frame: Polypropylene and ABS; header frame 25 mm.

Gasket: P = Polyurethane, endless foamed; F = flat gasket.

Media: Glass fiber.

Separators: Hot-melt beads

Sealant: Polyurethane (2-K-sealant)

Filter class acc. EN 1822: E11, H13

MPPS efficiency acc. EN 1822:2009: ≥ 95%; ≥ 99,95% at MPPS

Recommended final pressure drop: 2x initial pressure drop

Maximum pressure drop: 500 Pa

Temperature / Humidity: 70°C /100% RH



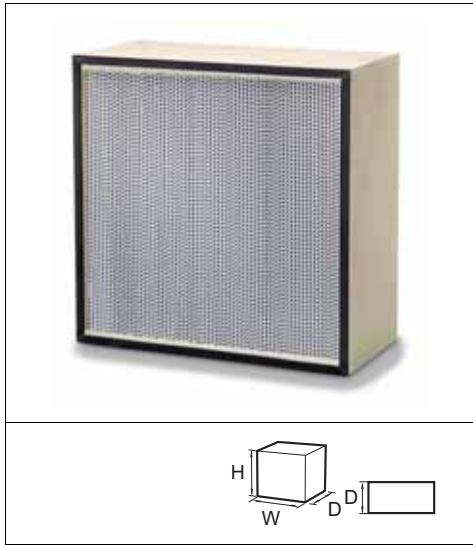
Model Name	Filter class	Width	Width	Height	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
VGHF11-592x287x292-0P	E11	592	287	292	1350	165	13	0,06	3,5
VGHF11-592x490x292-0P	E11	592	490	292	2450	165	23	0,11	6
VGHF11-592x592x292-0P	E11	592	592	292	3000	165	28	0,11	10
VGHF11-592x287x292-F	E11	592	287	292	1350	165	13	0,06	3,5
VGHF11-592x490x292-F	E11	592	490	292	2450	165	23	0,11	6
VGHF11-592x592x292-F	E11	592	592	292	3000	165	28	0,11	10
VGHF13-592x287x292-0P	H13	592	287	292	1350	250	13	0,06	3,5
VGHF13-592x490x292-0P	H13	592	490	292	2450	250	23	0,11	6
VGHF13-592x592x292-0P	H13	592	592	292	3000	250	28	0,11	10
VGHF13-592x287x292-F	H13	592	287	292	1350	250	13	0,06	3,5
VGHF13-592x490x292-F	H13	592	490	292	2450	250	23	0,11	6
VGHF13-592x592x292-F	H13	592	592	292	3000	250	28	0,11	10

* Pressure drop: ± 10%
Type -0P = gasket placed downstream
-F = gasket placed upstream

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filters for High Efficiency

Absolute™ 1D



Advantages

- High quality glass fibre media
- High efficiency
- High mechanical strength
- High dust holding capacity
- Rigid design

Application: HEPA Filter for standard applications

Type: HEPA-Filter

Frame: Plywood (twelfefold glued)

Gasket: Polyurethane, endless foamed

Media: Glass fibre

Separators: Aluminium

Sealant: Polyurethane (2-K-sealant)

Efficiency acc. EN 1822: H13

MPPS efficiency: ≥99,95% at MPPS

Recommended final pressure drop: 500 Pa

Temperature / Humidity: 110°C / 100% RH

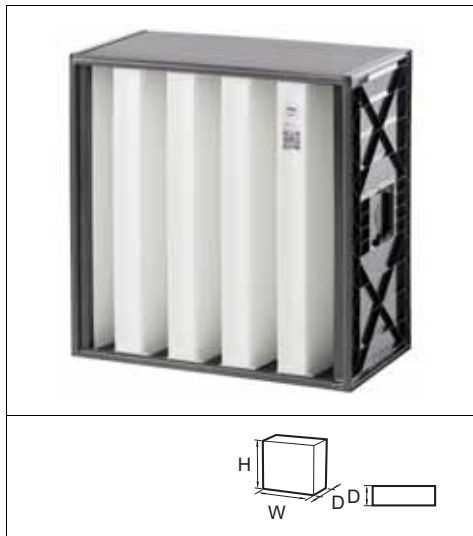
Mounting: Housings FKB, FKB/D, CamBox or CamSafe

Remarks: All filter tested acc. EN 1822:2009. Other editions on request

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop*	Area m ²	Volume m ³	Weight kg
1D-110-1PU	H13	305	305	150	340	250	2,4	0,019	3,7
1D-220-1PU	H13	305	610	150	715	250	5,1	0,037	7,2
1D-300-1PU	H13	457	457	150	760	250	5,9	0,039	8,4
1D-500-1PU	H13	575	575	150	1270	250	9,3	0,072	9,3
1D-600-1PU	H13	610	610	150	1545	250	11	0,072	10,2
1D-830-1PU	H13	762	610	150	1955	250	13,9	0,1	12,7
1D-970-1PU	H13	610	915	150	2370	250	16,8	0,12	15,1
1D-980-1PU	H13	915	610	150	2370	250	16,8	0,12	15,1
1D-1200-1PU	H13	1220	610	150	3190	250	22,7	0,16	18,5
1D-200-1PU	H13	305	305	292	530	250	5,1	0,03	6,4
1D-450-1PU	H13	305	610	292	1125	250	10,4	0,063	10,4
1D-725-1PU	H13	457	610	292	1765	250	16,3	0,128	14,4
1D-1000-1PU	H13	610	610	292	2435	250	22,5	0,128	17,1
1D-1250-1PU	H13	762	610	292	3070	250	28,4	0,16	20,5

* Pressure drop: ±10%
 Type -1PU = gasket placed upstream

Absolute™ V ProSafe VGXL, XXL



Advantages

- Recommended for food & beverage and life science industries
- Hygienic product acc. to VDI6022
- Microbial inert components acc. to ISO 846
- Food contact approved acc. to EC 1935:2004
- Free of harmful chemical components:
 - halogen-free
 - bisphenol-free
 - formaldehyde-free
 - phthalate-free
- Test resistance to decon and cleaning procedures
- High air flow, low pressure drop
- Individual test certificate acc. to EN1822:2009
- Optimizing waste management:
 - compactable
 - incinerable
 - lightweight
- Ideal for CREO energy optimization



Application: EPA/HEPA final filtration for air conditioning systems of sensitive process industries like life science or food and beverage

Type: High air flow incinerable EPA/HEPA filter

Frame: ABS with ergonomic handles

Gasket: PU one piece half round

Media: Glass fiber paper

Separator: Hot-melt

Sealant: Polyurethane

Efficiency EN 1822:2009 : E11, H13, H14

Efficiency MPPS: E11 > 95% - H13 > 99,95% - H14 > 99,995%

Controls: Individual EN 1822 from H13, measurement report attached in the box

Recommended final pressure drop: 600 Pa

Maximum flow rate: Nominal flow rate

Temperature: 70°C maximum in continuous service

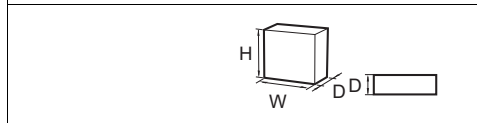
Mounting systems: Front and side access filter frames. Terminal housings and safe change systems

***CREO:** CleanRoom Design Program (Energy optimization software)

Model Name	Filter class	Weight	Height	Depth	Area m ²	Airflow/dP m ³ /h/Pa	Weight kg	Volume m ³
VGXXL11-305X610X292-P-PS	E11	305	610	292	13	2000/250	5	0,12
VGXXL11-610X610X292-P-PS	E11	610	610	292	33	5000/250	11	0,22
VGXXL11-762X610X292-P-PS	E11	762	610	292	46	6000/250	14	0,28
VGXL13-305X610X292-P-PS	H13	305	610	292	15	1500/250	5	0,12
VGXL13-610X610X292-P-PS	H13	610	610	292	38	4000/240	11	0,22
VGXXL13-610X610X292-P-PS	H13	610	610	292	38	5000/380	11	0,22
VGXXL13-762X610X292-P-PS	H13	762	610	292	46	6000/380	14	0,28
VGXL14-305X610X292-P-PS	H14	305	610	292	15	1500/310	5	0,12
VGXL14-610X610X292-P-PS	H14	610	610	292	38	4000/310	11	0,22
VGXL14-762X610X292-P-PS	H14	762	610	292	46	4800/310	14	0,28

HEPA/ULPA Panels

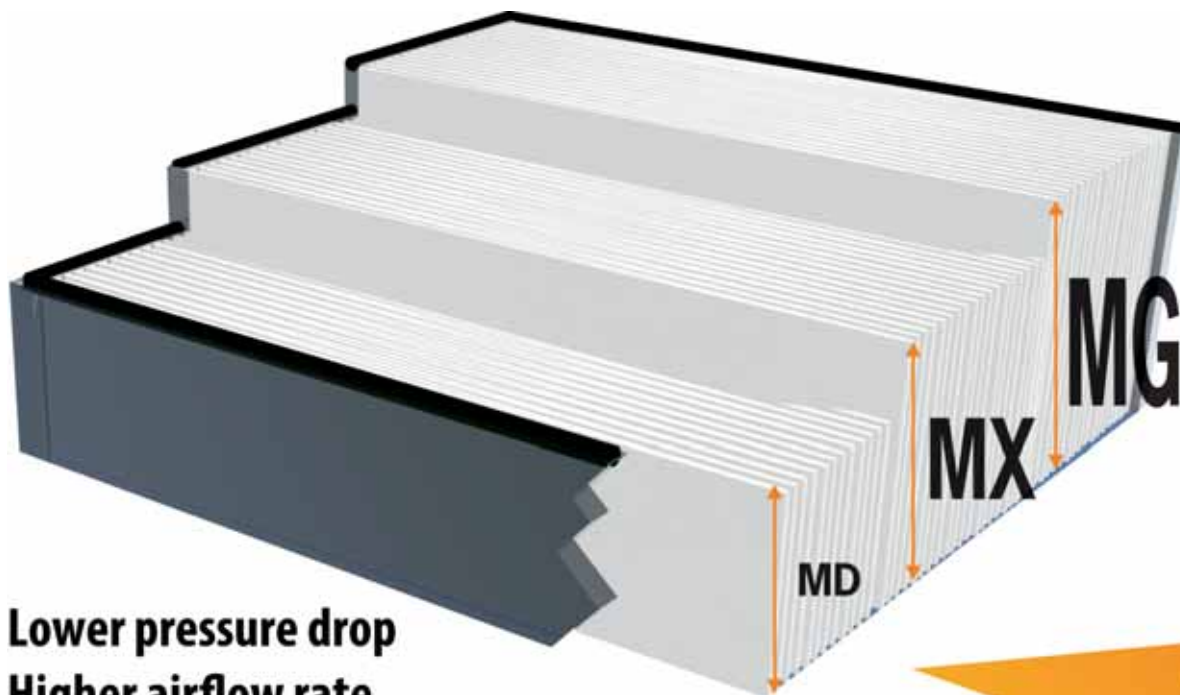
Megalam MD, MX, MG



Advantages

- Less pressure drop
- Quieter
- Higher flow rate
- Longer operating life

Example: Megalam H14 / 6P6			
	MD	MX	MG
Filter area	10m ²	12.5m ²	18m ²
Pressure drop 0.45 m/s (600m ³ /h)	120 Pa	90 Pa (-25%)	70 Pa (-40%)
Maximum pressure drop	900 m ³ /h (190 Pa)	600 m ³ /h (90 Pa)	2000 m ³ /h (250 Pa)
Energy		-25%	-42%
Lifespan		x 1.5	x 2.5
		Less pressure loss	More Flow



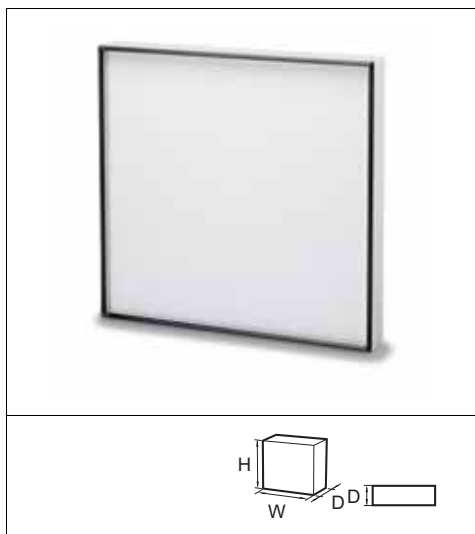
Lower pressure drop
Higher airflow rate
More energy savings
Longer operating life



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

HEPA/ULPA Panels

Megalam MD14, MX14, MG14 -1PU



Advantages

- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004
- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures

Application: HEPA filter for clean rooms and LAF benches

Type: HEPA-Filter

Frame: Extruded and anodised aluminum

Gasket: Polyurethane

Media: Glass fiber

Separators: Hot-melt beads

Sealant: Polyurethane (2-K-sealant)

Grid: Mild steel white (RAL 9010) epoxy paint

Efficiency acc. EN 1822:2009: H14

MPPS Efficiency acc. EN 1822:2009: $\geq 99,995\%$ at MPPS

Recommended final pressure drop: 2x initial pressure drop

Maximum pressure drop: MD: 500 Pa; MX: 600 Pa; MG: 800 Pa

Temperature/Humidity: 70°C / 100% RH

Remarks: Individually scantedested acc. EN 1822:2009 with protocol and packed in PE-foil.

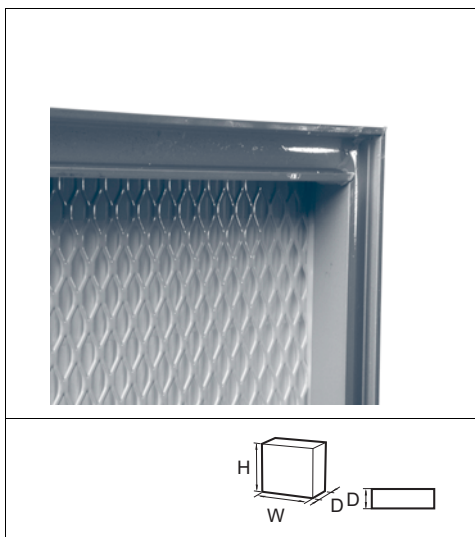
Compliant with ProSafe** requirements.

Model Name	Filter Class	Width	Height	Depth	Area m ²	Air flow / pressure drop at 0,45 m/s (m ³ /h / Pa)*	Volume m ³
MD14-2G10-305x305x66-1PU	H14	305	305	66	2,35	151 / 160	0,012
MD14-2G10-305x610x66-1PU	H14	305	610	66	4,78	301 / 155	0,023
MD14-2G10-457x457x66-1PU	H14	457	457	66	5,4	338 / 150	0,026
MD14-2G10-610x610x66-1PU	H14	610	610	66	9,7	605 / 140	0,045
MD14-2G10-762x762x66-1PU	H14	762	762	66	15,27	940 / 140	0,072
MD14-2G10-915x915x66-1PU	H14	915	915	66	22,1	1356 / 140	0,089
MD14-2G10-1220x610x66-1PU	H14	1220	610	66	19,6	1205 / 140	0,092
MX14-2G10-305x305x90-1PU	H14	305	305	90	3,2	151 / 125	0,012
MX14-2G10-305x610x66-1PU	H14	305	610	90	6,6	300 / 115	0,023
MX14-2G10-457x457x90-1PU	H14	457	457	90	7,3	338 / 105	0,026
MX14-2G10-610x610x90-1PU	H14	610	610	90	13,2	605 / 95	0,045
MX14-2G10-762x762x90-1PU	H14	762	762	90	20,6	940 / 95	0,072
MX14-2G10-915x915x90-1PU	H14	915	915	90	29,8	1355 / 95	0,089
MX14-2G10-1220x610x90-1PU	H14	1220	610	90	26,7	1206 / 95	0,092
MG14-2G10-305x305x110-1PU	H14	305	305	110	4,2	151 / 80	0,019
MG14-2G10-305x610x110-1PU	H14	305	610	110	8,7	302 / 75	0,037
MG14-2G10-457x457x110-1PU	H14	457	457	110	9,7	340 / 75	0,039
MG14-2G10-610x610x110-1PU	H14	610	610	110	17,5	605 / 65	0,072
MG14-2G10-762x762x110-1PU	H14	762	762	110	27,5	941 / 65	0,178
MG14-2G10-915x915x110-1PU	H14	915	915	110	39,8	1356 / 65	0,178
MG14-2G10-1220x610x110-1PU	H14	1220	610	110	35,3	1205 / 65	0,16

Type -1PU = gasket placed upstream; Type -2G10- = grid placed both sides
 * Pressure drop: $\pm 10\%$
 ** All certificates and further information available on www.camfil.com/prosafe

HEPA/ULPA Panels

Megalam MD14, MX14, MG14-GEL



Advantages

- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004
- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures

Application: HEPA filter for clean rooms and LAF benches

Type: HEPA-Filter

Frame: Extruded and anodised aluminum

Gasket: Sil-Gel

Media: Glass fiber

Separators: Hot-melt beads

Sealant: Polyurethane (2-K-sealant)

Grid: Mild steel white (RAL 9010) epoxy paint

Efficiency acc. EN 1822:2009: H14

MPPS Efficiency acc. EN 1822:2009: $\geq 99,995\%$ at MPPS

Recommended final pressure drop: 2x initial pressure drop

Maximum pressure drop: MD: 500 Pa; MX: 600 Pa; MG: 800 Pa

Temperature/Humidity: 70°C / 100% RH

Remarks: Individually scantested acc. EN 1822:2009 with protocol and packed in PE-foil. Compliant with ProSafe** requirements.

Model Name	Filter Class	Width	Height	Depth	Area m ²	Air flow / pressure drop at 0,45 m/s (m ³ /h / Pa)*	Volume m ³
MD14-2G10-305x305x71-GEL	H14	305	305	71	2,4	151 / 160	0,012
MD14-2G10-305x610x71-GEL	H14	305	610	71	4,8	301 / 155	0,023
MD14-2G10-457x457x71-GEL	H14	457	457	71	5,4	338 / 150	0,026
MD14-2G10-610x610x71-GEL	H14	610	610	71	9,7	603 / 140	0,045
MD14-2G10-762x762x71-GEL	H14	762	762	71	15,3	941 / 140	0,072
MD14-2G10-915x915x71-GEL	H14	915	915	71	22,3	1350 / 140	0,089
MD14-2G10-1220x610x71-GEL	H14	1220	610	71	19,6	1205 / 140	0,092
MX14-2G10-305x305x105-GEL	H14	305	305	105	3,2	151 / 125	0,012
MX14-2G10-305x610x105-GEL	H14	305	610	105	6,6	300 / 115	0,023
MX14-2G10-457x457x105-GEL	H14	457	457	105	7,3	338 / 105	0,026
MX14-2G10-610x610x105-GEL	H14	610	610	105	13,2	605 / 95	0,045
MX14-2G10-762x762x105-GEL	H14	762	762	105	20,8	940 / 95	0,072
MX14-2G10-915x915x105-GEL	H14	915	915	105	30,1	1356 / 95	0,178
MX14-2G10-1220x610x105-GEL	H14	1220	610	105	26,7	1206 / 95	0,16
MG14-2G10-305x305x130-GEL	H14	305	305	130	4,2	151 / 80	0,019
MG14-2G10-305x610x130-GEL	H14	305	610	130	8,6	302 / 75	0,037
MG14-2G10-457x457x130-GEL	H14	457	457	130	9,71	340 / 75	0,039
MG14-2G10-610x610x130-GEL	H14	610	610	130	17,5	605 / 65	0,072
MG14-2G10-762x762x130-GEL	H14	762	762	130	27,5	941 / 65	0,178
MG14-2G10-915x915x130-GEL	H14	915	915	130	39,8	1356 / 65	0,178
MG14-2G10-1220x610x130-GEL	H14	1220	610	130	35,28	1206 / 65	0,16

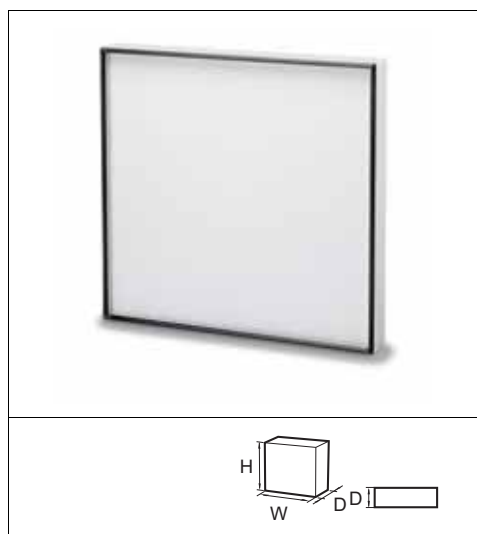
Type -GEL = gasket placed upstream; Type -2G10 = grid placed both sides

* Pressure drop: $\pm 10\%$

** All certificates and further information available on www.camfil.com/prosafe

HEPA/ULPA Panels

Megalam MD15, MX15, MG15 -1PU



Advantages

- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004
- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures

Application: ULPA filter for clean rooms and LAF benches

Type: ULPA filter

Frame: Extruded and anodised aluminum

Gasket: Polyurethane, endless foamed

Media: Glass fiber

Separators: Hot-melt beads

Sealant: Polyurethane (2-K-sealant)

Grid: Mild steel white (RAL 9010) epoxy paint

Efficiency acc. EN 1822:2009: U15

MPPS Efficiency acc. EN 1822:2009: > 99.9995% MPPS

Recommended final pressure drop: 2x initial pressure drop

Maximum pressure drop: MD: 500 Pa; MX: 600 Pa; MG: 800 Pa

Temperature/Humidity: 70°C / 100% RH

Température: 70°C maximum en service continu

Remarks: Individually scantested acc. EN 1822:2009 with protocol and packed in PE-foil.

Compliant with ProSafe** requirements.

Model Name	Filter Class	Width	Height	Depth	Area m ²	Air flow / pressure drop at 0,45 m/s (m ³ /h / Pa)*	Vollume m ³
MD15-2G10-305x305x66-1PU	U15	305	305	66	2,7	151 / 165	0,012
MD15-2G10-305x610x66-1PU	U15	305	610	66	4,8	301 / 160	0,023
MD15-2G10-457x457x66-1PU	U15	457	457	66	6,3	338 / 160	0,026
MD15-2G10-610x610x66-1PU	U15	610	610	66	11,3	605 / 145	0,045
MD15-2G10-762x762x66-1PU	U15	762	762	66	17,81	940 / 145	0,072
MD15-2G10-915x915x66-1PU	U15	915	915	66	25,8	1356 / 145	0,089
MD15-2G10-1220x610x66-1PU	U15	1220	610	66	22,9	1205 / 145	0,092
MX15-2G10-305x305x90-1PU	U15	305	305	90	3,67	150 / 135	0,012
MX15-2G10-305x610x66-1PU	U15	305	610	90	7,5	300 / 125	0,023
MX15-2G10-457x457x90-1PU	U15	457	457	90	8,4	338 / 125	0,026
MX15-2G10-610x610x90-1PU	U15	610	610	90	15,18	605 / 115	0,045
MX15-2G10-762x762x90-1PU	U15	762	762	90	23,84	940 / 115	0,072
MX15-2G10-915x915x90-1PU	U15	915	915	90	34,5	1356 / 115	0,089
MX15-2G10-1220x610x90-1PU	U15	1220	610	90	30,6	1205 / 115	0,092
MG15-2G10-305x305x110-1PU	U15	305	305	110	4,5	151 / 100	0,019
MG15-2G10-305x610x110-1PU	U15	305	610	110	9,3	301 / 95	0,037
MG15-2G10-457x457x110-1PU	U15	457	457	110	10,4	340 / 90	0,039
MG15-2G10-610x610x110-1PU	U15	610	610	110	18,8	603 / 80	0,072
MG15-2G10-762x762x110-1PU	U15	762	762	110	29,5	941 / 80	0,178
MG15-2G10-915x915x110-1PU	U15	915	915	110	42,75	1356 / 80	0,178
MG15-2G10-1220x610x110-1PU	U15	1220	610	110	37,9	1206 / 80	0,16

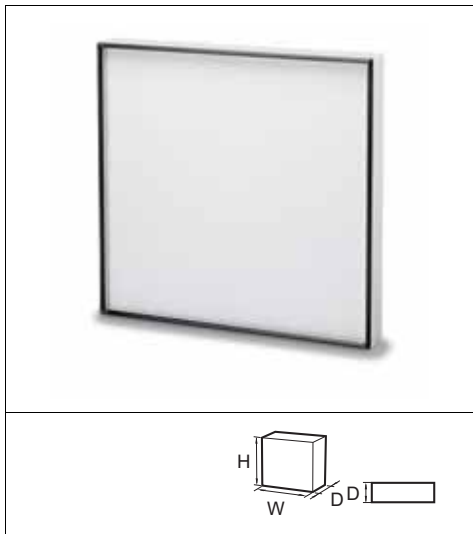
Type -1PU = gasket placed upstream; Type -2G10- = grid placed both sides

* Pressure drop: ± 10 %

** All certificates and further information available on www.camfil.com/prosafe

HEPA/ULPA Panels

Megalam MD14/ME, MD15/ME, MX15/ME -1PU



Advantages

- Compliant to VDI 6022
- Microbial inert components acc. to ISO 846
- Tested for Food Contact acc. to EC 1935:2004
- Free of bisphenol-A, phthalate and formaldehyde
- Chemically resistant to inactivation and cleaning procedures

Application: HEPA-/ULPA filter for clean rooms and LAF benches

Type: HEPA-/ULPA-Filter

Frame: Extruded and anodised aluminum

Gasket: Polyurethane

Media: Membrane (ME)

Separators: Hot-melt beads

Sealant: Polyurethane (2-K-sealant)

Grid: Mild steel white (RAL 9010) epoxy paint

Efficiency acc. EN 1822:2009: H14, U15

MPPS Efficiency acc. EN 1822:2009: ≥99,995%, ≥99,9995% at MPPS

Recommended final pressure drop: 2x initial pressure drop

Maximum pressure drop: MD: 500 Pa; MX: 600 Pa

Temperature/Humidity: 70°C / 100% RH

Remarks: Individually scantested acc. EN 1822:2009 with protocol and packed in PE-foil. Compliant with ProSafe** requirements.

Model Name	Filter Class	Weight	Height	Depth	Area m ²	Air flow / pressure drop at 0,45 m/s (m ³ /h / Pa)*	Volume m ³
MD14/ME-2G10-305x305x66-1PU	H14	305	305	66	2,6	151 / 55	0,012
MD14/ME-2G10-305x610x66-1PU	H14	305	610	66	5,25	300 / 55	0,023
MD14/ME-2G10-457x457x66-1PU	H14	457	457	66	5,95	338 / 55	0,026
MD14/ME-2G10-610x610x66-1PU	H14	610	610	66	10,7	605 / 50	0,045
MD14/ME-2G10-762x762x66-1PU	H14	762	762	66	16,8	940 / 50	0,072
MD14/ME-2G10-915x915x66-1PU	H14	915	915	66	24,2	1356 / 50	0,089
MD14/ME-2G10-1220x610x66-1PU	H14	1220	610	66	21,55	1205 / 50	0,092
MD15/ME-305x305x66-1PU	U15	305	305	66	2,35	151 / 100	0,012
MD15/ME-305x610x66-1PU	U15	305	610	66	4,8	300 / 100	0,023
MD15/ME-457x457x66-1PU	U15	457	457	66	5,4	338 / 100	0,026
MD15/ME-610x610x66-1PU	U15	610	610	66	9,7	605 / 100	0,045
MD15/ME-762x762x66-1PU	U15	762	762	66	15,3	941 / 100	0,072
MD15/ME-915x915x66-1PU	U15	915	915	66	22,1	1356 / 100	0,089
MD15/ME-1220x610x66-1PU	U15	1220	610	66	19,5	1205 / 100	0,092
MX15/ME-305x305x90-1PU	U15	305	305	90	3,2	151 / 80	0,012
MX15/ME-305x610x90-1PU	U15	305	610	90	6,5	300 / 80	0,023
MX15/ME-457x457x90-1PU	U15	457	457	90	7,34	338 / 80	0,026
MX15/ME-610x610x90-1PU	U15	610	610	90	13,22	603 / 80	0,045
MX15/ME-762x762x90-1PU	U15	762	762	90	20,8	941 / 80	0,072
MX15/ME-915x915x90-1PU	U15	915	915	90	30,1	1356 / 80	0,089
MX15/ME-1220x610x90-1PU	U15	1220	610	90	26,66	1205 / 80	0,092

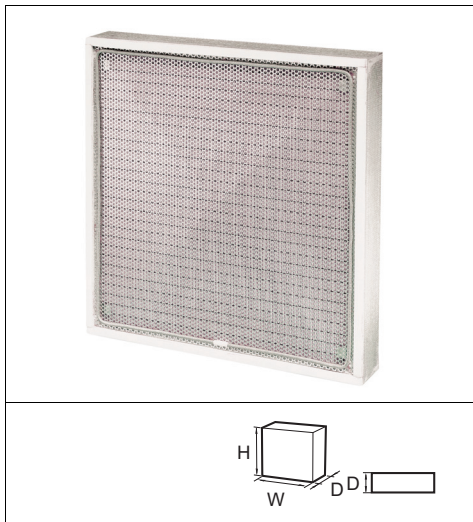
Type -1PU = gasket placed upstream; Type -2G10- = grid placed both sides

* Pressure drop: ± 15 %

** All certificates and further information available on www.camfil.com/prosafe

Filter for High Temperature

Termikfil 2000



Advantages

- Meets FDA requirements
- Maximum continuous operating temperature 350°C, efficiency 99,99% at 0,3 µm
- Ceramic frame
- Exclusive precuring process at 300°C carried out in the plant
- Efficiency tested after precuring

Application: Protection of ultra-clean processes at high temperature, sterilisation tunnels in the pharmaceutical industry.

Type: Very high efficiency panel resistant to 350°C in continuous service.

Frame: Composite ceramic.

Gasket: Rolled glass fibre paper + 6mm dia glass braid.

Media: Glass fibre.

Separator: Glass strands.

Sealant: Ceramic.

Faceguard: Upstream and downstream in stainless steel.

DOP efficiency: ≥ 99.99%.

Maximum local penetration: 0.01% conforming to FDA requirements.

Recommended final pressure drop: 350 Pa.

Temperature: Up to 350°C in continuous service.

Test: 100% after thermal treatment at 300°C.

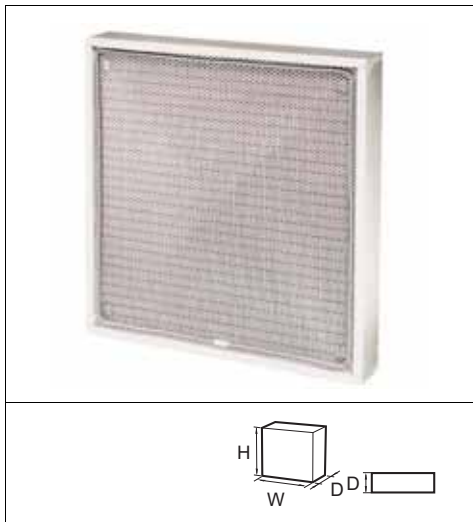
Mounting: A stainless steel adaptor frame can be supplied to reach the thickness of 150mm or 292mm.

NB: To reduce fume emission when starting up, TERMIKFIL undergoes a specific precuring cycle in the factory at 300°C using an exclusive CAMFIL process.

Model Name	Width	Height	Depth	Media area m ²	Air flow/pressure drop m ³ /h/Pa	Weight kg	Volume m ³
3P3	305	305	84	2.9	300/250	2	0.01
4P4	457	457	84	5.0	675/250	3	0.04
3P6	305	610	84	5.9	600/250	4	0.02
4P6	457	610	84	8.9	900/250	4	0.03
6P6	610	610	84	12.1	1200/250	5	0.04
7P6	762	610	84	15.3	1500/250	6	0.05
9P6	915	610	84	18.5	1800/250	8	0.06

Filter for High Temperature

Termikfil 2000



Advantages

- Meets FDA requirements
- Maximum continuous operating temperature 350°C, efficiency 99,99% at 0,3 µm
- Ceramic frame
- Exclusive precuring process at 300°C carried out in the plant
- Efficiency tested after precuring

Application: Protection of ultra-clean processes at high temperature, sterilisation tunnels in the pharmaceutical industry.

Type: Very high efficiency panel resistant to 350°C in continuous service.

Frame: Composite ceramic.

Gasket: Rolled glass fibre paper + 6mm dia glass braid.

Media: Glass fibre.

Separator: Glass strands.

Sealant: Ceramic.

Faceguard: Upstream and downstream in stainless steel.

DOP efficiency: ≥ 99.99%.

Maximum local penetration: 0.01% conforming to FDA requirements.

Recommended final pressure drop: 350 Pa.

Temperature: Up to 350°C in continuous service.

Test: 100% after thermal treatment at 300°C.

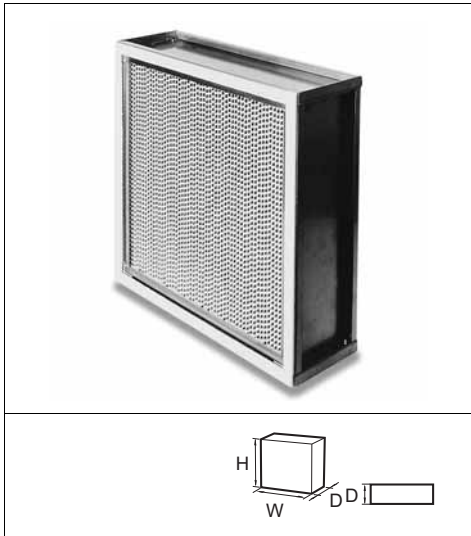
Mounting: A stainless steel adaptor frame can be supplied to reach the thickness of 150mm or 292mm.

NB: To reduce fume emission when starting up, TERMIKFIL undergoes a specific precuring cycle in the factory at 300°C using an exclusive CAMFIL process.

Model Name	Width	Height	Depth	Media area m ²	Air flow/pressure drop m ³ /h/Pa	Weight kg	Volume m ³
3P3	305	305	84	2.9	300/250	2	0.01
4P4	457	457	84	5.0	675/250	3	0.04
3P6	305	610	84	5.9	600/250	4	0.02
4P6	457	610	84	8.9	900/250	4	0.03
6P6	610	610	84	12.1	1200/250	5	0.04
7P6	762	610	84	15.3	1500/250	6	0.05
9P6	915	610	84	18.5	1800/250	8	0.06

Filter for High Temperature

Absolute™ 1FRK



Advantages

- 99,95% at MPPS with DEHS
- High air flow
- Temperature resistant up to 350°C

Application: Protection for clean processes at high temperature

Type: HEPA-Filter

Frame: Stainless steel

Gasket: Glass fibre, cord seal

Media: Glass fibre

Separators: Aluminium

Sealant: Ceramic

Efficiency acc. EN 1822:2009: H13

MPPS efficiency acc. EN 1822:2009: ≥99,97% at 0,3µm, ≥99,95% at MPPS, measured at 20°C with DEHS

Recommended final pressure drop: 500 Pa

Temperature / Humidity: 350°C / 100% RH

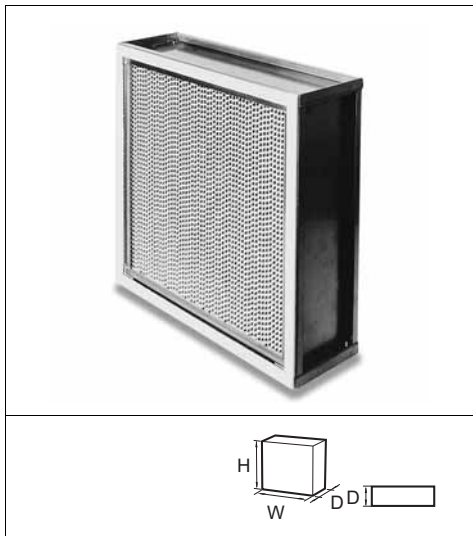
Filter packed in plastic film. Due to the different thermal expansion coefficients of the individual filter components the ceramic potting may form cracks during the tempering process. At operating temperature (350°C) these filters have an overall efficiency of 99,97% at 0,3µm, leakages are possible.

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
1FRK- 220-1W	H13	305	610	150	540	250	5	0,037	8,9
1FRK- 300-1W	H13	457	457	150	620	250	5,9	0,04	9,46
1FRK- 600-1W	H13	610	610	150	1180	250	11,4	0,072	12,36
1FRK- 980-1W	H13	762	610	150	1500	250	13,9	0,1	14,5
1FRK- 450-1W	H13	915	610	150	1780	250	17,1	0,12	16,8
1FRK- 725-1W	H13	305	610	292	900	250	10,4	0,128	16,6
1FRK-830-1W	H13	457	610	292	1420	250	16,3	0,128	19
1FRK-1000-1W	H13	610	610	292	1960	250	22,5	0,128	22
1FRK-1250-1W	H13	762	610	292	2480	250	28,4	0,16	24,52

Modell -1W = Gasket upstream (standard)
 Modell -01W = Gasket downstream
 Modell -2W = Gasket both sides
 Modell -0 = no gasket

Filter for High Temperature

Absolute™ 1FRKV



Advantages

- $\geq 99,95\%$ at MPPS with DEHS
- High mechanical strength
- Temperature resistant up to 350°C
- High air flow
- High efficiency

Application: Protection for clean processes at high temperature.

Type: HEPA-Filter

Frame: Stainless steel 1.4301/304, reinforced

Gasket: Glass fibre

Media: Glass fibre

Separators: Aluminium

Sealant: Ceramic

Efficiency acc. EN 1822: H13

MPPS efficiency acc. EN 1822: $\geq 99,95\%$ at MPPS, measured at 20°C with DEHS

Recommended final pressure drop: 500 Pa

Temperature / Humidity: 350°C / 100% RH

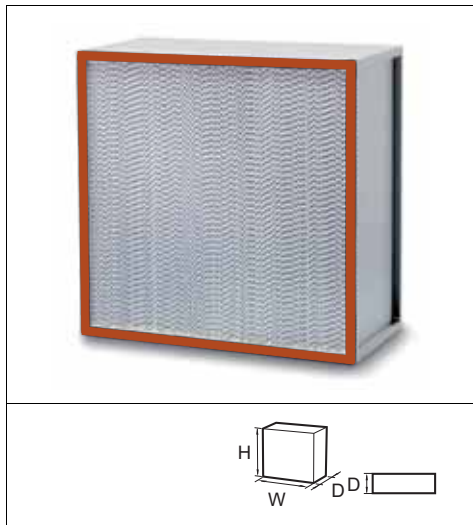
Filter packed in plastic film. Due to the different thermal expansion coefficients of the individual filter components the ceramic potting may form cracks during the tempering process. At operating temperature (350°C) these filters have an overall efficiency of 99,97% at 0,3µm, leakages are possible.

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
1FRKV- 220-1W	H13	305	610	150	540	250	5,00	0,040	6,00
1FRKV- 300-1W	H13	457	457	150	620	250	5,90	0,050	8,00
1FRKV- 600-1W	H13	610	610	150	1180	250	11,00	0,070	12,00
1FRKV- 980-1W	H13	915	610	150	1780	250	16,80	0,110	16,00
1FRKV- 450-1W	H13	305	610	292	900	250	10,40	0,060	9,00
1FRKV- 725-1W	H13	457	610	292	1420	250	16,30	0,080	13,00
1FRKV-1000-1W	H13	610	610	292	1960	250	22,50	0,120	17,00
1FRKV-1250-1W	H13	762	610	292	2480	250	28,40	0,170	21,00

Modell -1W = Gasket upstream (standard)
 Modell -01W = Gasket downstream
 Modell -2W = Gasket both sides
 Modell -0 = no gasket

Filter for High Temperature

Absolute™ 1FRSI



Advantages

- ≥99,95% at MPPS with DEHS
- High mechanical strength
- Temperature resistant up to 250°C
- High air flow
- Constant efficiency

Application: Protection for clean processes at high temperatures

Type: HEPA-Filter

Frame: Stainless steel, 1.4301

Gasket: Silicon HT

Media: Glass fibre

Separator: Aluminium

Sealant: Silicon HT

Efficiency acc. EN 1822: H13

Efficiency: ≥99,97% at 0,3µm, ≥99,95% at MPPS, measured at 20°C with DEHS

Recommended final pressure drop: 500 Pa

Temperature / Humidity: 250°C / 100% RH

Remarks: Please note the installation and assembly instructions!

Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
1FRSI-25-1SIHT	H13	203	203	78	50	250	0,5	0,006	2,5
1FRSI-50-1SIHT	H13	203	203	150	90	250	0,9	0,019	3,1
1FRSI-110-1SIHT	H13	305	305	150	250	250	2,4	0,019	4,0
1FRSI- 200-1SIHT	H13	305	305	292	410	250	5,1	0,030	5,1
1FRSI- 220-1SIHT	H13	305	610	150	540	250	5,0	0,035	6,0
1FRSI- 300-1SIHT	H13	457	457	150	620	250	5,9	0,072	7,3
1FRSI- 450-1SIHT	H13	305	610	292	900	250	10,4	0,063	9,3
1FRSI- 600-1SIHT	H13	610	610	150	1180	250	10,9	0,072	9,5
1FRSI- 725-1SIHT	H13	457	610	292	1420	250	16,3	0,128	13,0
1FRSI- 830-1SIHT	H13	762	610	150	1500	250	13,7	0,100	10,6
1FRSI- 980-1SIHT	H13	915	610	150	1800	250	16,8	0,120	12,0
1FRSI-1000-1SIHT	H13	610	610	292	1960	250	22,5	0,128	16,5
1FRSI-1250-1SIHT	H13	762	610	292	2500	250	28,4	0,160	21,5
1FRSI-610x457x150-1SIHT	H13	610	457	150	860	250	7,8	0,072	8,4
1FRSI-457x457x292-1SIHT	H13	457	457	292	1030	250	12,8	0,128	10,5
1FRSI-610x762x292-1SIHT	H13	610	762	292	2500	250	22,7	0,160	21,5

Type -1SIHT = gasket upstream (standard)

Type -01SIHT = gasket downstream

Type -2SIHT = gasket both sides

Type -0 = without gasket

Other dimensions on request

Summary Molecular Filtration



2 in 1 solutions
CityPleat
Page 86



2 in 1 solutions
CityPleat Green
Page 87



2 in 1 solutions
City-Flo
Page 88



2 in 1 solutions
CityCarb
Page 89



Compact Filters
CitySorb
Page 90



Cylindrical Filters
CamCarb CG
Page 91



Cylindrical Filters
CamCarb CM
Page 92



Cylindrical Filters
CamCarb Mounting Frames
(Baseplates)
Page 93



Loose-Filled Panels
CamCarb PM
Page 94



Vee Cell Modules
CamCarb VG
Page 95



AMC control
GigaPleat XPC/XPH
Page 96



AMC control
GigaPleat NXPP
Page 97



AMC control
GigaPleat NXPH
Page 98



AMC control
GigaPleat NXPC
Page 99

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

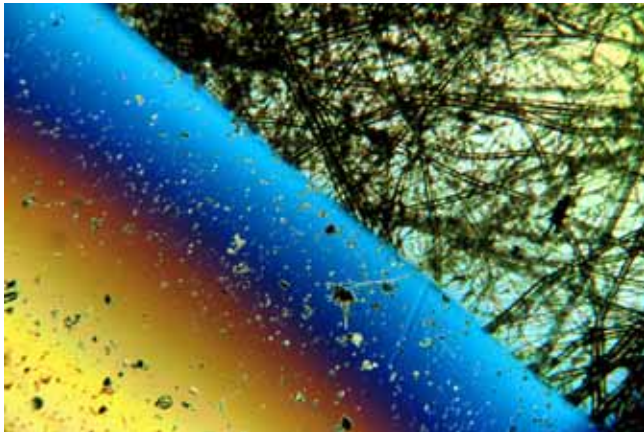
Indoor Air Quality, EN 13779

The industrialised world

Even though there are natural sources of pollution, the far greater concern is pollution generated by human activity. Emissions in today's modern world from industry, vehicles and power generation mean that the air we breathe can be very heavily polluted.

Man has created approximately one hundred thousand chemicals which never existed in nature, synthetic chemicals that are produced at the rate of more than one billion tonnes per year.

All synthetic chemicals have the potential to vaporise, and most of them are present in the air around us to some degree. A modern day problem is that we spend an increasing amount of time indoors, exposed to these chemical pollutants, which in turn threatens our health.



The impact of pollution on our health

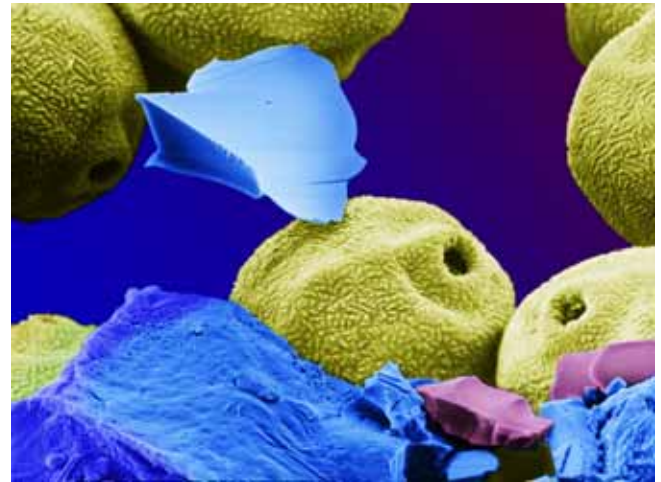
Air pollutants may be categorised as particulate (dust) or molecular (gas and vapours). Particulate and molecular pollutants are drawn into the human respiratory system when we breathe. Most particles are trapped in the lung tissue, however the much smaller molecules quickly pass through the lungs and go into the bloodstream and get distributed

Recommendations in EN 13779 for air filters

Outdoor air quality	IAQ Indoor Air Quality			
	IDA 1 (High)	IDA 2 (Medium)	IDA 3 (Moderate)	IDA 4 (Low)
ODA 1	F9	F8	F7	M5
ODA 2	F7 + F9	M5 + F8	M5 + F7	M5 + M6
ODA 3	F7 + GF* + F9	F7 + GF* + F9	M5 + F7	M5 + M6

Table referring to appendix "A3. Use of Air Filters" in The European Standard EN 13779.

around the entire body. The effects of molecular pollutants are experienced much faster than the effects of particles. Typical symptoms are headaches, eyestrain and irritation of the airways. These symptoms are often called "Sick Building Syndrome".



The European Standard for Ventilation

The purpose of the European Standard EN 13779 is to achieve a comfortable and healthy indoor environment during all seasons with acceptable installation and running costs.

EN 13779 is now a national standard in many European countries. It specifies the required air filter performance to achieve good Indoor Air Quality (IAQ) taking into consideration the contamination of the outdoor air. The outdoor air is divided into three categories - from ODA 1, where the air is pure apart from temporary pollution such as pollen, up to ODA 3 with high concentrations of gas and particles. ODA 3 is now the typical contamination level in urban areas.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Ozone rating



Camfil introduces an ozone removal efficiency classification for molecular filters.

Ozone can be removed from the air by molecular filters. To help customers assess the effectiveness of different products, Camfil offers an ozone removal efficiency rating system. This is the first of its kind in the filtration industry.

This is Ozone

Ozone is a naturally occurring gas, widely present in our environment at ground level. The ozone molecule is composed of three oxygen atoms, rather than the two atoms of normal oxygen. Ozone is formed by the interaction of other gaseous pollutants such as nitrogen oxides and volatile organic compounds (VOCs) under the influence of ultraviolet (UV) light. City centre levels of ozone increase during periods of intense sunlight. Ozone is classed as an oxidising agent, and has the potential to damage or destroy other molecules.

Ozone and human health

Ozone is an extremely reactive gas and inhalation of ozone can be harmful to human health. The presence of ozone in air may be readily linked to increased hospital admissions due to respiratory illness. Symptoms of ozone exposure include; throat irritation, aggravation of asthma, decrease in lung function and increased susceptibility to respiratory infection. Ambient ozone levels and high alerts may be available on local government websites in many parts of the world.

Removing ozone from the air

Molecular filters reduce ozone levels in the air through processes of adsorption and decomposition.

Validating ozone removal efficiency with measurements

Camfil use a unique test rig to measure ozone removal efficiency. Temperature and relative humidity conditioned air is blown through full size production filters. Ozone is injected into the airstream and sensitive ozone detectors measure the concentration upstream and downstream of the filter. Filter efficiency is readily calculated from the up-and-downstream ozone concentrations.

We are the market leader in validation of the performance of molecular filters. Filters can be challenged with many different gases and vapours. Using temperatures between 5 and 50 deg C and relative humidity values between 30% and 90%, we can determine the performance of our filters under the conditions present in our customer applications. To be able to develop improved and functional filters for the future these measurement capabilities are crucial.



Table of ozone filtration ratings

Filter Type	Average Ozone Removal Efficiency	Ozone Rating
City-Flo XL	35%	3
CityPleat 200 2"	50%	5
CityPleat Green	50%	5
CityPleat 480 4"	65%	6
CitySorb	70%	7
City-Flo	80%	8
CityCarb	90%	9

i) All filters tested at 2.5 m/s face velocity (500 fpm);
 ii) Ozone challenge = 150 – 450 ppb;
 iii) Temperature = 22 deg C; iv) Relative humidity = 50%)

All the filters use a high quality broad spectrum adsorbent, based on activated carbon to destroy the ozone molecules. Laboratory tests show that filters based on the use of potassium permanganate, which is itself a strong oxidising agent are unlikely to be effective.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Application Matrix for Molecular Filtration Product

Increasing Duty →

DUTY	VERY LIGHT	LIGHT	MODERATE	MODERATE	MODERATE	HEAVY	HEAVY	VERY HEAVY
SEGMENT	IAQ	COMFORT	SENSITIVE ENVIRONMENT	CLEAN ROOMS	LIGHT PROCESS	CORROSION CONTROL	INDUSTRIAL EXHAUST	EMERGENCY PROTECTION
EXAMPLE	CITY CENTRE OFFICE	AIRPORT	MUSEUM AND IVF CLINIC	SEMI-CONDUCTOR	SMALL FACTORY	PETROCHEM. PULP & PAPER	WASTE HANDLING	MINE REFUGE
CUSTOMER PROBLEM	NON-SPECIFIC	SPECIFIC	SPECIFIC	SPECIFIC	SPECIFIC	SPECIFIC	VERY SPECIFIC	VERY SPECIFIC
MAKE-UP AIR	CITY FAMILY / CAMCARB	CAMCARB	CAMCARB	CAMCARB / GIGAPLEAT	CAMCARB	PROCARB		PROCARB
RECIRC. (RETURN) AIR	CITY FAMILY	CITY FAMILY	CITY FAMILY / GIGAPLEAT	GIGAPLEAT	CAMCARB	CAMCARB		PROCARB
EXHAUST AIR					CAMCARB		PROCARB	



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CityPleat



Advantages

- “2 in 1” filtration solution; particulate and molecular.
- Rapid Adsorption Dynamics (RAD)
- Ozone rating O_z5 or O_z6
- 100% incinerable
- Can be used upgrade existing installations
- Lightweight and clean

Application: : Combination filtration to achieve particle pre-filtration and control of low level gaseous pollutants. Typical applications include IAQ improvement in city centre buildings, shopping malls and other public buildings.

Type: Prefilter for gas and particles removal.

Frame: Moisture resistant cardboard.

Media: Synthetic fibre and broad spectrum carbon.

EN779:2012 filter class: G4.

ASHRAE 52.2:2007 filter class: MERV 7.

Recommended temperature: 0 - 40°C.

Recommended relative humidity: < 70%.

Recommended final pressure drop: 250 Pa.

Maximum final pressure drop: 350 Pa.

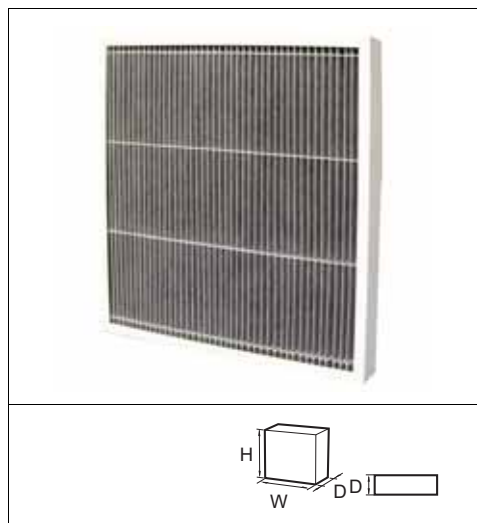
Ozone rating: O_z 5, O_z 6

Ozone removal efficiency: 50 - 70% depending on model and air flow.
All values are +15%.

Model Name	Filter Class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Volume m ³	Weight kg
CityPleat-100-594x594x44	G4	594	594	44	1900	135	0,019	1
CityPleat-100-289x594x44	G4	289	594	44	900	135	0,01	0,5
CityPleat-200-594x594x44	G4	594	594	44	3175	135	0,019	1,8
CityPleat-200-289x594x44	G4	289	594	44	1500	135	0.10	0,9
CityPleat-200-594x594x95	G4	594	594	95	3185	90	0.039	2
CityPleat-200-289x594x95	G4	289	594	95	1500	90	0.019	1
CityPleat-480-594x594x95	G4	594	594	95	3185	50	0.039	3,8
CityPleat-480-289x594x95	G4	289	594	95	1500	50	0.019	1,9

*Full size test in Camfil molecular filtration test rig.

CityPleat Green



Advantages

- “2 in 1” filtration solution; particulate and molecular.
- Rapid Adsorption Dynamics (RAD)
- Ozone rating O₂5
- 100% incinerable
- Can be used upgrade existing installations
- Lightweight and clean

Application: Combination filtration to achieve particle pre-filtration and control of low level gaseous pollutants. Typical applications include IAQ improvement in city centre buildings, shopping malls and other public buildings.

Type: Compact filter

Frame: Plastic (ABS)

Media: Media impregnated activated carbon

Separators: Beads of hot-melt

Efficiency EN779:2012: G4

Recommended temperature: 0 to 40 ° C

Recommended relative humidity: <70%

Recommended final pressure drop: 250 Pa

Maximum pressure drop: 350 Pa

Average efficiency of ozone: 50%

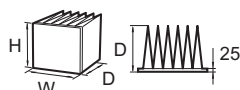
Size min / max filter: min. 200x200, max. 650x610

Ozone rating: O₂ 5

Ozone removal efficiency: 50-60% depending on model and airflow. Values +/- 15%

Model Name	Filter class	Height	Width	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
CPG-200 287x592x48-G4-0	G4	287	592	48	1500	135	0,6	0,01	1,2
CPG-200 592x592x48-G4-0	G4	592	592	48	3175	135	1,2	0,02	2,3
CPG-200 305x610x48-G4-0	G4	305	610	48	1645	135	0,7	0,01	1,3
CPG-200 610x610x48-G4-0	G4	610	610	48	3370	135	1,4	0,02	2,5

City-Flo



Advantages

- **Double function: particle and molecular filtration**
- **Can be used to upgrade existing installations**
- **Ideal for filtering low concentrations of most external and internal source pollutants**
- **Robust metal header frame**
- **“2 in 1” filtration solution; particulate and molecular**
- **Range of standard sizes**
- **Rapid Adsorption Dynamics (RAD)**

Application: Particle and odour removal in Hospitals, Offices, Airports etc.

Type: Multi pocket particle and molecular filter.

Frame: Galvanised steel.

Media: Glass fibre and broad spectrum carbon.

EN779:2012 efficiency: F7 (80-85%).

Temperature: 50°C maximum in continuous service.

Recommended relative humidity: < 70%.

Ozone rating: O_z 8

Ozone removal efficiency: 80%. Value +/- 15%

Holding frames: Front and side access holding frames are available: Type 8, Type L and FC Housings.



Model Name	Filter class	Width	Height	Depth	Airflow m ³ /h	Pressure drop	Bags	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
HFZS-F7-592/592/534-10-25	F7	592	592	534	3400	140	10	6,2	0,2	6	62	55	1823	D
HFZS-F7-490/592/534-8-25	F7	490	592	534	2700	140	8	5	0,2	4,6				D
HFZS-F7-490/592/534-8-25	F7	287	592	534	1700	140	5	3,1	0,1	3,5				D

* ME%: Minimum efficiency ref. to EN779:2012

** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014

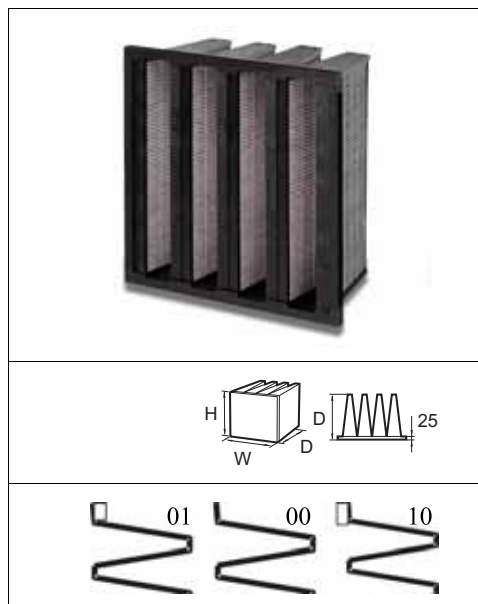
*** Energy class: according to Eurovent RS 4/C/001-2015

Industry leading bag filter construction is available with an additional molecular filtration media layer to provide gas filtration and enhanced IAQ.

City-Flo is the ultimate solution when a high performance bag filter and a high performance molecular (gas, odour) filter must be installed in a single location. City-Flo filter can easily be fitted into new or existing standard filter frames. High performance Camfil glass fibre media is combined with an exclusive “Broad Spectrum” carbon media that exploits the benefits of “Rapid Adsorption Dynamics” (RAD) to remove a very wide range of VOCs and odours. Molecular pollutants are released from both external sources (traffic fumes, power generation, industry) and internal sources (building construction and finish materials, wooden materials, carpets, cleaning agents etc.).

The filter should be replaced when the pressure loss exceeds the maximum allowable value for the ventilation system or after a maximum of one year. In accordance with good practice, used City-Flo filters should be bagged immediately after removal and disposed of by the appropriate route

CityCarb



Advantages

- Compact “2 in 1” filtration solution; particulate and molecular
- Ideal for filtering low concentrations of most external and internal source pollutants
- Can be used to upgrade existing installations
- Range of standard sizes
- Rapid Adsorption Dynamics (RAD)
- 100% incinerable

Application: Particle and odour removal in Offices, Hospitals, Airports etc.

Type: Compact particle and molecular filter.

Frame: Polystyrene.

Media: Synthetic fibre and broad spectrum carbon.

EN779:2012 efficiency: F7.

Maximum flow rate: 4000m³/h.

Ozone rating: O_z 9

Ozone removal efficiency: 90% . Value +/- 15%

Mounting system: Front and side access holding frames are available: Type 8, Type L and FC housings.



Model Name	Filter class	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*	Energy consumption kWh/y**	Energy class***
OPKCC-242412-01PU	F7	592	592	292	3400	120	8	0,1	11,8			>2451	E
OPKCC-242012-01PU	F7	592	490	292	2800	120	6,6	0,1	8,5				E
OPKCC-241212-01PU	F7	592	287	292	1500	120	3,5	0,05	6				E

* ME%: Minimum efficiency ref. to EN779:2012
 ** Energy Consumption, kWh/year: Calculated according to Eurovent Guideline 4/21-2014
 *** Energy class: according to Eurovent RS 4/C/001-2015

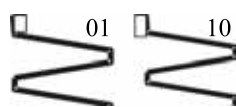
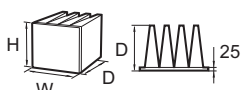
A compact filter with an additional molecular filtration media layer to provide enhanced IAQ through combined particle filtration and gas filtration.

CityCarb is the ultimate solution when a high performance compact filter and a high performance molecular (gas, odour) filter must be installed in a single location. CityCarb filter can easily be fitted into new or existing standard filter frames. Particle filtration media is combined with an exclusive “Broad Spectrum” carbon media that exploits the benefits of “Rapid Adsorption Dynamics” (RAD) to remove a very wide range of VOCs and odours. Molecular pollutants are released from both external sources (traffic fumes, power generation, industry) and internal sources (building construction and finish materials, wooden materials, carpets, cleaning agents etc).

The filter should be replaced when the pressure loss exceeds the maximum allowable value for the ventilation system or after a maximum of one year. In accordance with good practice, used CityCarb filters should be bagged immediately after removal and disposed of by the appropriate route

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CitySorb



Advantages

- Ideal for filtering low concentrations of most molecular pollutants from external and internal sources.
- 100% incinerable
- Compact filtration solution
- Range of standard sizes
- High efficiency
- Large air flow capacity

Application: Adsorption of odours and gasses in air conditioning applications.

Type: Rigid pleated filter.

Case: Polystyrene.

Media: Multilayer carbon media.

Sealant: Polyurethane.

Separators: Hot-melt.

Gasket: One piece PU gasket.

Recommended temperature range: 0-40°C.

Recommended relative humidity: < 70% RH.

Ozone rating: O₂ 7

Ozone removal efficiency: 70% . Value +/- 15%

Holding frames: Front and side access housings and frames are available, Type 8, Type L and FC Housings.

Model Name	Width	Height	Depth	Air flow m ³ /h	Pressure drop	Area m ²	Volume m ³	Weight kg
OPKCS-242412-01PU	592	592	292	3400	80	8.0	0.02	10.8
OPKCS-242012-01PU	592	490	292	2800	80	6.6	0.04	9.2
OPKCS-241212-01PU	592	287	292	1500	80	3.5	0.02	5.4

A compact molecular filter to provide enhanced IAQ in buildings. CitySorb is the ultimate solution when a high performance molecular filter must be installed in the ventilation system and there is existing pre-filtration. CitySorb filter can easily be fitted into new or existing standard filter frames. "Broad Spectrum" carbon media that exploits the benefits of "Rapid Adsorption Dynamics" (RAD) is used to remove a very wide range of VOCs and odours. Molecular pollutants are released from both external sources (traffic fumes, power generation, industry etc.) and internal sources (building construction and finish materials, wooden materials, carpets, cleaning agents etc).

The filter should be replaced when the pressure loss exceeds the maximum allowable value for the ventilation system or after a maximum of one year. In accordance with good practice, used CitySorb filters should be bagged immediately after removal and disposed of by the appropriate route.

CamCarb CG



Advantages

- Leak-free installation ensures maximum possible efficiency
- 360 degree geometry and even air distribution ensures maximum possible lifetime
- Lowest possible Life Cycle Cost (LCC)
- May be filled with a wide range of molecular filtration medias
- Rapid bayonet fitting system and integral dual TPE gaskets
- Totally corrosion resistant
- Reduced weight compared to Metal version
- Modular and flexible assembly

Application: The most reliable molecular filter for high efficiency and long-term control of molecular contaminants in sensitive buildings and process industries.

Type: Cylindrical molecular filter cartridge manufactured from engineering grade resins.

Filtration media: Broad Spectrum activated carbon for control of odours, VOCs and ozone. Various impregnated medias for control of difficult gases e.g. hydrogen sulphide, ammonia, DMS etc.

Temperature: 40°C maximum in continuous service.

Mounting system: Dedicated base plate in 3 standard sizes (see separate page).

Model	Diameter mm	Length mm	Carbon Type*	Rated Airflow m ³ /hr	Pressure loss Pa **	Weight kg	Volume-unpacked m ³
1300	148	240	CEX003	1250	65	1.5	0.005
2600	148	452	CEX003	2500	100	2.7	0.01
3500	148	595	CEX003	3400	150	3.7	0.13

* Broad Spectrum carbon, 3 mm pellet size

** At rated flow

CamCarb CG filters are filled with high quality activated carbon or CamPure media and are used for high efficiency removal of molecular contaminants from supply air, recirculation air and exhaust air ventilation systems in sensitive building and process applications.

CamCarb CG filters eliminate customer problems with different categories of airborne molecules, including; odours, irritants, toxic gases and corrosives (acidic gases).

The molecular filtration media is deployed in an annular pattern with uninterrupted 360 degree geometry along the entire length of the filter. This arrangement ensures even air distribution over the entire filter area and maximizes filter lifetime.

Filters mount onto a dedicated baseplate using integrated bayonet fastenings without the need for specialized tools. Three standard sizes of the modular baseplate allow the filter installation to be accommodated in any size air handling unit, duct or plenum.

CamCarb CM



Advantages

- Leak-free installation ensures maximum possible efficiency
- 360 degree geometry and even air distribution ensures maximum possible lifetime
- May be re-filled, lowest possible Life Cycle Cost (LCC)
- Rapid bayonet fitting system and integral dual TPE gaskets
- Stainless steel construction
- Modular and flexible assembly

Application: The most reliable molecular filter for high efficiency and long-term control of molecular contaminants in sensitive buildings and process industries.

Type: Cylindrical molecular filter cartridge manufactured from stainless steel.

Filtration media: Broad Spectrum activated carbon for control of odours, VOCs and ozone. Various impregnated medias for control of difficult gases e.g. hydrogen sulphide, ammonia, DMS etc.

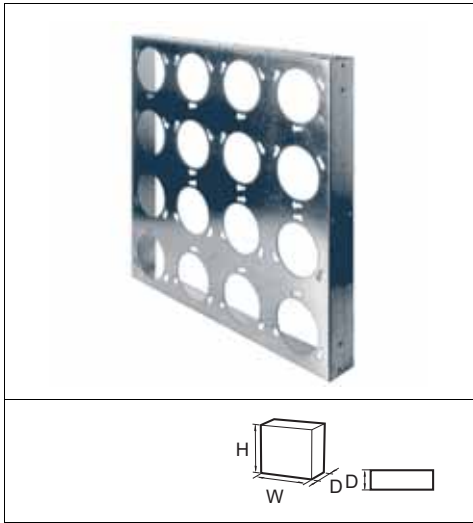
Temperature: 40°C maximum in continuous service.

Mounting system: Dedicated base plate in 3 standard sizes (see separate page).

Model	Diameter mm	Length mm	Carbon Type*	Rated Airflow m ³ /hr	Pressure loss Pa **	Weight kg	Volume-unpacked m ³
2600	147	450	CEX003	2500	100	3.9	0.01
3500	147	600	CEX003	3400	150	5.2	0.14

* Broad Spectrum carbon, 3 mm pellet size
 ** At rated flow

CamCarb Mounting Frames (Baseplates)



Advantages

- Modular design adaptable for all types of installations
- Rapid fitting system via bayonet fitting
- Quick and easy service
- Three standard sizes
- Assembly by bolting, rivets, welding

Application: Dedicated mounting frames to ensure leak-free installation of CamCarb molecular filters in AHUs, ducts and plenums.

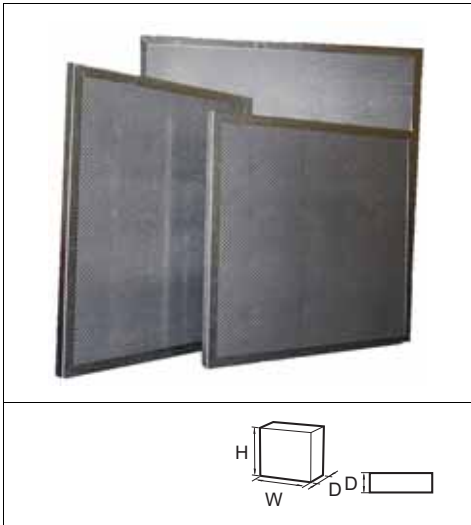
Applicable filters: CamCarb Metal and CamCarb Green in 2600 and 3500 sizes. (Note always specific filter type when ordering as base plate thickness may vary to accommodate different weights of filters).

Material: Galvanised steel or stainless steel (specify with order)

Model Name	Width	Height	Depth	Cylinder capacity	Indicative Weight kg	Approx. Unit volume m ³
G8	305	610	70	8	5.0	0.02
G12	508	610	70	12	5.7	0.03
G16	610	610	70	16	6	0.04

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamCarb PM



Advantages

- May be filled with any molecular filtration media.
- May be lined with a fine scrim to minimise shedding
- Vibrated fill technique to prevent media settlement
- Standard and non-standard sizes available
- Galvanised steel frame, option for stainless steel
- Plastic frame for certain standard sizes

Application: Adsorption of odours and gases in air conditioning applications.

Type: Loose fill adsorbent panels.

Frame: Galvanised steel.

Media: Campure or activated carbon based materials.

Temperature: 40°C maximum in continuous service.

Recommended relative humidity: 30 - 70%.

Mounting systems: Front and side access housings and frames are available.

Height	Width	Depth	Recommended contact time (s)	Airflow m ³ /hr	Pressure drop Pa	Weight kg	Volume L
600	600	25	0.1	350	30	9.0	
300	600	25	0.1	175	30	4.5	
500	600	25	0.1	300	30	7.5	
600	600	50	0.2	350	60	18.0	
300	600	50	0.2	175	60	9.0	
500	600	50	0.2	300	60	12.5	

Filters are available in a comprehensive range of sizes and depths. Please contact Camfil for more information.

CamCarb VG



Advantages

- Replacement items for supply recirculation air systems in industrial process industries.
- May be filled with various molecular filtration medias, depending on the application and contaminant(s)

Description: Heavy duty disposable plastic Vee Cell modules to specifically treat corrosive (acidic) gases from supply air systems in process industry applications.

Mounting: Normally in filter specific side access housings

Media: Modules can be filled with a range of Camfil molecular filtration medias based on impregnated activated carbon or activated alumina to adsorb acidic gas(es).

Temperature range: normally 0⁰ to 50⁰C

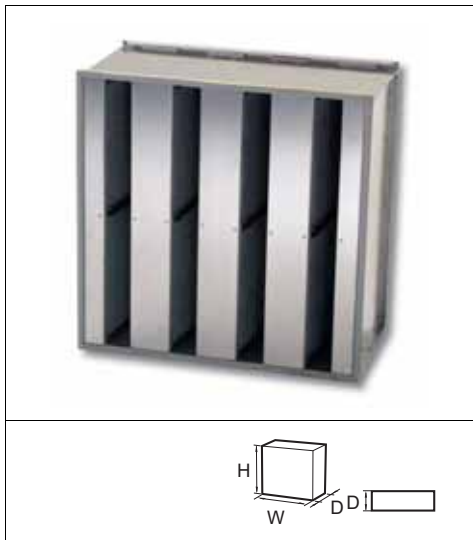
Relative Humidity Range: 30 to 95%, depending on media selection

Recommended face velocity: 0.5 to 1.5 m/s

Typical pressure loss at rated velocity range: 50 to 250 Pa

Model Name	Height	Width	Depth	Media Bed depth mm	Volume L	Weight
300-H	300	300	300	75	13.5	11.4
300-F	600	300	300	75	27.0	22.7
440-F	150	300	440	25	6.6	11.1
440-H	150	600	440	25	13.2	22.2

GigaPleat XPC/XPH



Advantages

- Reduced waste through re-usable housing
- Up to 2 media types can be combined into the same filter
- Compact solution
- High media cleanliness
- Exchangeable panels

Application: Clean room recirculation air and clean room make up air.

Type: Compact filter with exchangeable panels.

Housing: Stainless steel. Removable sheet metal profiles for panel replacement.

Gasket: Position: 01 - downstream, 10 - upstream.

Sealant: Polyurethane.

Configuration XPC: 2 layers of 8 panels / full size housing.

Configuration XPH: 1 layer of 8 panels / full size housing.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

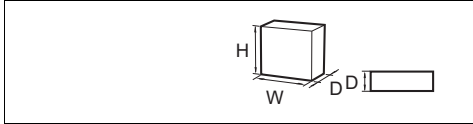
Outgassing: Individually outgassing tested for VOC emissions on request

Product	Model Name	Material	Width	Height	Depth	Number of panels per layer	Number of panels per housing	Appr. Weight with panels kg	Volume m ³
Box Housing	XPC 610x610x292	Stainless Steel	610	610	292	8	16	28	0,13
Box Housing	XPC 305x610x292	Stainless Steel	305	610	292	4	8	16	0,06
Header Housing	XPH 592x592x292	Stainless Steel	592	592	292	8	8	17	0,13
Header Housing	XPH 287x592x292	Stainless Steel	287	592	292	4	4	9	0,06

Panel	Fit Housing Width	Fit Housing Height	Fit Housing Depth	Air flow m ³ /h	Pressure drop Pa +15%
XPC A3	610/305	610	292	2600/1100	95
XPC B2	610/305	610	292	2600/1100	95
XPC C3	610/305	610	292	2600/1100	95
XPC L3	610/305	610	292	2600/1100	95
XPH A3	592/287	592	292	2600/1100	60
XPH B2	592/287	592	292	2600/1100	60
XPH C3	592/287	592	292	2600/1100	60
XPH L3	592/287	592	292	2600/1100	60

AMC removal vs filter model	L3	B2	A3	C3
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF ₃)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes
For specific contaminants, please contact Camfil				

GigaPleat NXPP



Advantages

- Extremely low pressure drop
- High media cleanliness
- Individually VOC outgassing tested
- Extremely small form factor
- Wide range of dimensions
- Multiple media types can be combined into the same filter

Application: For clean room ceiling, Fan Filter Units, mini-environment or process equipment.

Type: Panel filter.

Frame: Anodized aluminium.

Available filter depth without knife edge: 66, 90, 110, 150, 172 and 200 mm.

Available filter depth with knife edge: 66 (+38), 90 (+38), 110 (+38), 150 (+15) mm.

Knife: KU facing up, KD facing down.

Sealant: Polyurethane.

Gasket: 01=Downstream gasket, 10=Upstream, 11=2 gaskets.

Faceguard: 02: Downstream faceguard; 20: Upstream faceguard, 22: 2 faceguards.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Outgassing: Individually outgassing tested for VOC emissions.

Model Name	Width	Height	Depth	Air flow m ³ /h	Pressure drop Pa +/-15%	Appr. Weight kg	Volume m ³
NXPP A3	610	610	90	535	15	5	0,04
NXPP A3	1220	610	90	1070	15	10	0,04
NXPP B2	610	610	90	535	15	5	0,04
NXPP B2	1220	610	90	1070	15	10	0,04
NXPP C3	610	610	90	535	15	5	0,04
NXPP C3	1220	610	90	1070	15	10	0,04
NXPP L3	610	610	90	535	15	5	0,04
NXPP L3	1220	610	90	1070	15	10	0,04
NXPP B2C3L3	610	610	150	535	50	14	0,06
NXPP B2C3L3	1220	610	150	1070	50	28	0,06

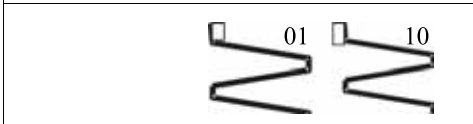
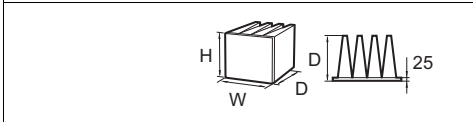
Other dimensions and media combinations available on request. Adapter frames for FFU installation available on request.

AMC removal vs filter model	L3	B2	A3	C3
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF3)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes

For specific contaminants, please contact Camfil

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

GigaPleat NXP



Advantages

- Low pressure drop
- High media cleanliness
- Low weight
- Incinerable

Application: Clean room recirculation air, clean room make up air.

Type: Compact filter with header.

Frame: ABS

Sealant: Polyurethane.

Gasket: 01= downstream, 10 = upstream.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Outgassing: Individually outgassing tested for VOC emissions on request.

Model Name	Width	Height	Depth	Air flow m ³ /h	Pressure drop Pa +-15%	Appr. Weight kg	Volume m ³
NXP A3	592	592	292	2600	60	12	0,13
NXP A3	592	287	292	1100	60	6,5	0,06
NXP B2	592	592	292	2600	50	12	0,13
NXP B2	592	287	292	1100	50	6,5	0,06
NXP C3	592	592	292	2600	60	12	0,13
NXP C3	592	287	292	1100	60	6,5	0,06
NXP L3	592	592	292	2600	60	12	0,13
NXP L3	592	287	292	1100	60	6,5	0,06

AMC removal vs filter model	L3	B2	A3	C3
Acids				YES
Bases		YES	YES	
Condensables (B.Pt > 150 deg. C)	YES		Yes	Yes
Dopants (Organophosphates)	YES		Yes	Yes
Dopants (BF3)				YES
Organics (B.Pt < 150 deg. C)	YES			
Ozone	YES		Yes	Yes
For specific contaminants, please contact Camfil				

GigaPleat NXPC



Advantages

- Low pressure drop
- High media cleanliness
- Wide range of dimensions

Application: Clean room recirculation air, clean room make up air.

Type: Compact filter.

Frame: GI, aluminium or stainless steel.

Sealant: Polyurethane.

Gasket: 01 = downstream, 10 = upstream.

Recommended temperature range: 10 - 40°C.

Recommended relative humidity: 30 - 70%.

Particle cleanliness: ISO Class 6.

Outgassing: Individually outgassing tested for VOC emissions on request

Model Name	Width	Height	Depth	Air flow m ³ /h	Pressure drop Pa +15%	Appr. Weight kg	Volume m ³
NXPC A3	610	610	292	2600	60	15	0,13
NXPC A3	305	610	292	1100	60	8	0,06
NXPC A3	595	595	292	2600	60	15	0,13
NXPC A3	289	595	292	1100	60	8	0,06
NXPC A3	592	592	292	2600	60	15	0,13
NXPC A3	287	592	292	1100	60	8	0,06
NXPC B2	610	610	292	2600	60	15	0,13
NXPC B2	305	610	292	1100	60	8	0,06
NXPC B2	595	595	292	2600	60	15	0,13
NXPC B2	289	595	292	1100	60	8	0,06
NXPC B2	592	592	292	2600	60	15	0,13
NXPC B2	287	592	292	1100	60	8	0,06
NXPC C3	610	610	292	2600	60	15	0,13
NXPC C3	305	610	292	1100	60	8	0,06
NXPC C3	595	595	292	2600	60	15	0,13
NXPC C3	289	595	292	1100	60	8	0,06
NXPC C3	592	592	292	2600	60	15	0,13
NXPC C3	287	592	292	1100	60	8	0,06
NXPC L3	610	610	292	2600	60	15	0,13
NXPC L3	305	610	292	1100	60	8	0,06
NXPC L3	595	595	292	2600	60	15	0,13
NXPC L3	289	595	292	1100	60	8	0,06
NXPC L3	592	592	292	2600	60	15	0,13
NXPC L3	287	592	292	1100	60	8	0,06

For media choice, please refer to Gigapleat NXPH

Summary Housings & Frames



Filter Holding Frames
Absolute Filter Holding Frame
Page 102



Filter Holding Frames
Universal filter holding frame
Page 103



Filter Housings
CamCube HF, filter housings for bag filters
Page 104



Filter Housings
CamCube AC, filter housings for HEPA filters
Page 106



Filter Housings
CamCube CC, filter housings for cylindrical carbon filter
Page 108



Filter Housings
FCBL-CC
Page 110



Filter Housings
FCBS-A
Page 111



Terminal Filter Housings
Pharmaseal-E top entry : full equipment
Page 112



Terminal Filter Housings
CamSeal: Optional Integrated Damper
Page 113



Terminal Filter Housings
CleanSeal top entry PU gasket: full equipment
Page 114



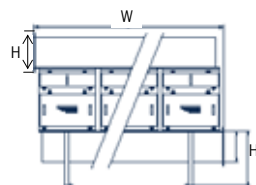
Filter Containment Systems
Cambox
Page 116



Filter Containment Systems
CamBox S
Page 117



Filter Containment Systems
CamContain
Page 118



Filter Containment Systems
CamSafe 2 - Connecting Ducts painted
Page 119



Filter Containment Systems
CamSafe 2 - Safe change filter casing Bag In Bag Out (BIBO) - painted version
Page 120



Casings and filters for containment systems
PVC CASE VHE FILTERS 5 m³/h
Page 122



Casings and filters for containment systems
PVC CASE VHE FILTERS 20-30-50 m³/h
Page 123



Casings and filters for containment systems
PVC CASE VHE FILTERS 30 m³/h et 50 m³/h
Page 124



Casings and filters for containment systems
METAL CASE VHE FILTERS 30-70 m³/h
Page 125



Casings and filters for containment systems
METAL CASE VHE FILTERS 300 m³/h
Page 126



CamHosp
CamHosp-R: Operating theatre recirculation air ceiling
Page 127



Fan filter unit
CamFFU High Performance HP-EC
Page 129



Fan filter unit
CamFFU Compact Solution CS-EC simple control onboard
Page 130



Fan filter unit
CamFFU Integrated Solution IS-EC
Page 131

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

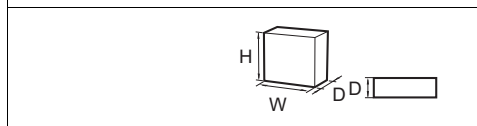
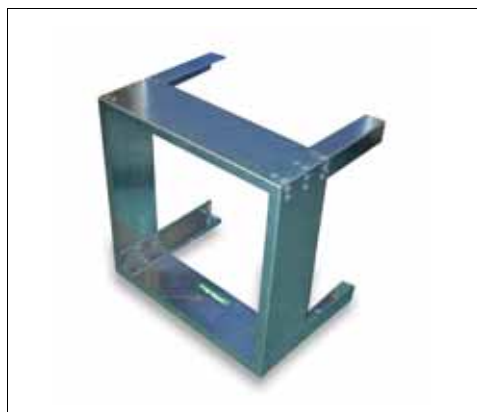
HEPA / ULPA Filters
Class E10 to U17

Molecular Filtration

Filter Frames and Housings

Air Purifiers, Dust collectors
& Gas Turbine Filtration

Absolute Filter Holding Frame



Advantages

- Modular design adaptable for all types of installations
- Location dimples in frame ensure correct filter fitting
- Pre drilled for easy assembly
- Filter holding clips can be easily replaced as required
- CREO Approved

Application: Mounting very high efficiency filters in air conditioning units and systems.

Type: Front access filter holding frame.

Construction: Galvanised steel or stainless steel.

Filter Types: Absolute and Micretain very high efficiency filters.

Filter fixing: Using 4 corner mounted clamps.

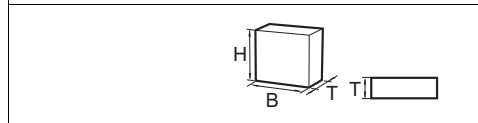


Model Name	Exterior dimensions (WxHxD) mm	Filter dimension (WxHxD) mm	Unit weight kg	Unit volume m ³
Galvanised steel	626x626x335	610x610x292	12.5	0.13
Galvanised steel	626x321x335	610x305x292	10.0	0.07
Galvanised steel	610x610x335	595x595x292	12.3	0.12
Galvanised steel	610x305x335	595x290x292	9.9	0.06
Stainless steel	626x626x335	610x610x292	12.5	0.13
Stainless steel	626x321x335	610x305x292	10.0	0.07
Stainless steel	610x610x335	595x595x292	12.3	0.12
Stainless steel	610x305x335	595x290x292	9.9	0.06

Other dimensions and arrangements available on request.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Universal filter holding frame



Avantages

- Ergonomic
- Rapid installation
- Modular concept for all installations
- Suitable for commercial and industrial applications
- CREO Approved

Application: Mounting frame for Hi-Flo, Hi-Cap and Compact filter.

Frame: Galvanised sheet metal; stainless steel on request

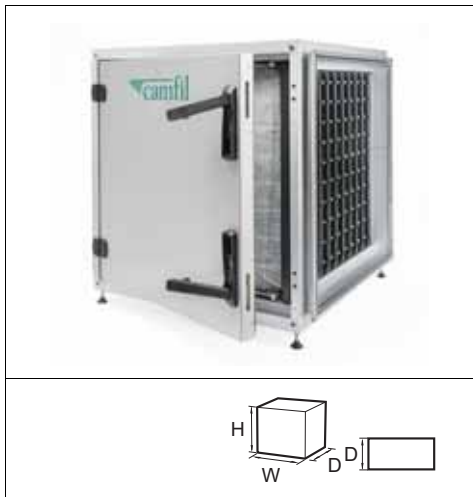
Gasket: Expanded foam; profile gasket or without gasket on request

Remarks: Filter fixing using 4 clamps

Model Name	Dimensions WxHxD (mm)	Clamping height(mm)	Volume m ³	Weight kg
4MP	610x610x76	25	0,036	3,00
4NQ	508x610x76	25	0,036	2,85
4OR	305x610x76	25	0,018	2,15
4OR/2	305x305x76	25	0,018	1,60
4MPL	610x910x76	25	0,053	3,80
4NQL	508x910x76	25	0,053	3,70
4ORL	305x910x76	25	0,026	2,90
4MPS	610x610x74	25; 50	0,036	3,00
4NQS	508x610x74	25; 50	0,036	2,85
4ORS	305x610x74	25; 50	0,035	2,15

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamCube HF, filter housings for bag filters



Advantages

- Heat and condensation insulated
- Corrosivity class C4
- Leakage class C
- Easy to service
- Short delivery time

Filter housing material: Aluzinc.

Filter: Bag filters such as Hi-Flo XL and City-Flo XL. Compact filters such as Opakfil. See the relevant page in the catalogue for the technical data about filters

Air flow: The recommended air flow in a full module filter (592 x 592 mm) is 3,400 m³/h. See the relevant page in the catalogue for further information about design

Note: Door hinged on the left or right, can be changed on site

Accessories:

Prefilter mounting rail 50 or 100 mm

Adjustable feet (4 per set)

Hose connectors for pressure drop, supplied separately reference 550901

Hose connectors for pressure drop, factory mounted reference 550900

Locking handles

Flange adaptor

Product description

CamCube HF is a flexible and compact range of filter housings for bag filters and other filter types with a 25 mm frame. Two stage filtration is available as an option with a prefilter mounting rail for panel filters. The housing walls is a sandwich design with 45 mm heat and condensation insulation between, covered with aluzinc sheet metal inside and outside (corrosivity class C4).

The service hatch is hinged mounted. The endless gasket on the inside of the service hatch makes it highly airtight.

The filter housing has a leakage class of C according to EN 15727.

When the service hatch is closed the newly developed clamping device ensures the clamping of the filter.

As standard the casing has M8 threads for mounting the filter housing. The filter housing is supplied with a guide connection and a flange connection is available as an option.

Descriptive text example:

Filter housing: CamCube HF-1010. Supplier, Camfil Svenska AB

Design: Sandwich construction with 45 mm heat and condensation insulation, covered with double aluzinc sheet metal (corrosivity class C4).

Leakage class C

Filter: 1 x Cityflo XL-592x592x640 F7

Accessories: One set of adjustable feet. Hose connectors for pressure drop, factory mounted.

Classification:

Leakage class C, according to the EN 15727:2010 standard. Leakage class L1 according to the EN 1886:2007 standard

Mechanical performance: D1 according to the EN 1886:2007 standard

Filterbypass test, highest class according to the EN 1886:2007 standard, up to filter class F9



M8 threads for mounting

Guide connection as standard



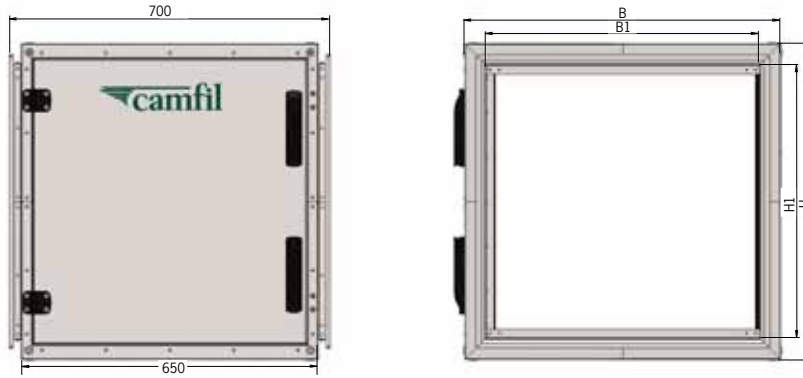
Endless gasket in the service hatch



Newly developed filter clamping

Adjustable feet as an option

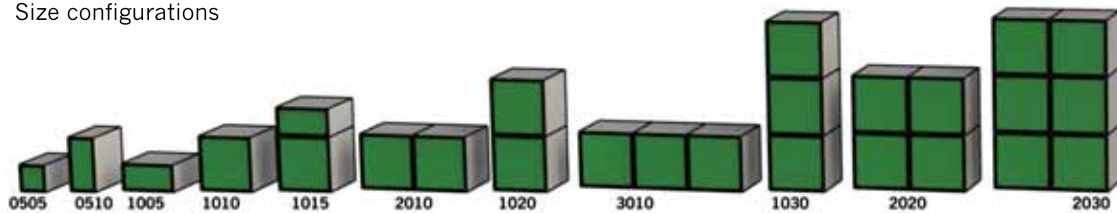
Filter Housings



Details of CamCube

Model Name	External dimensions (BxH) mm	Connection dimensions (B1xH1) mm	Number of filters 592x592 mm	Number of filters 287x592 mm	Number of filters 592x287 mm	Number of filters 287x287 mm	Weight kg
CamCube HF-0505	392x392	300x300				1	24
CamCube HF-0510	392x692	300x600		1			34
CamCube HF-1005	692x392	600x300			1		34
CamCube HF-1010	692x692	600x600	1				43
CamCube HF-1015	692x992	600x900	1		1		55
CamCube HF-1020	692x1292	600x1200	2				64
CamCube HF-1025	692x1592	600x1500	2		1		76
CamCube HF-1030	692x1892	600x1800	3				85
CamCube HF-1510	992x692	900x600	1	1			53
CamCube HF-1515	992x992	900x900	1	1	1	1	66
CamCube HF-1520	992x1292	900x1200	2	2			76
CamCube HF-1525	992x1592	900x1500	2	2	1	1	89
CamCube HF-1530	992x1892	900x1800	3	3			99
CamCube HF-2010	1292x692	1200x600	2				62
CamCube HF-2015	1292x992	1200x900	2		2		77
CamCube HF-2020	1292x1292	1200x1200	4				86
CamCube HF-2025	1292x1592	1200x1500	4		2		100
CamCube HF-2030	1292x1892	1200x1800	6				109
CamCube HF-2510	1592x692	1500x600	2	1			74
CamCube HF-2515	1592x992	1500x900	2	1	2	1	89
CamCube HF-2520	1592x1292	1500x1200	4	2			98
CamCube HF-2525	1592x1592	1500x1500	3	2		1	113
CamCube HF-2530	1592x1892	1500x1800	6	3			123
CamCube HF-3010	1892x692	1800x600	3				83
CamCube HF-3015	1892x992	1800x900	3		3		99
CamCube HF-3020	1892x1292	1800x1200	6				108
CamCube HF-3025	1892x1592	1800x1500	6		3		124
CamCube HF-3030	1892x1892	1800x1800	9				134

Size configurations



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamCube AC, filter housings for HEPA filters



Advantages

- Heat and condensation insulated
- Corrosivity class C4
- Leakage class C
- Easy to service
- Short delivery time

Filter housing material: Aluzinc.

Filter: HEPA-filter, Absolute C and Absolute D in size 595x595x292 mm.

See the relevant page in the catalogue for the technical data about filters.

Filter clamping: Suitable for filters, in depth 292 mm.

Note: Door hinged on the left or right. Can be changed on site.

Accessories:

Prefilter mounting rail 50 or 100 mm

Adjustable feet (4 per set) reference 550902

Hose connectors for pressure drop, supplied separately reference 550901

Hose connectors for pressure drop, factory mounted reference 550900

Lockable handles

Flange adaptor

Product description

CamCube AC is a flexible and compact range of filter housings for HEPA filters and other filter types with 292 mm depth.

Two stage filtration is available as an option with a prefilter mounting rail for panel filters.

The cover is a sandwich design with 45 mm heat and condensation insulation between, covered with aluzinc sheet metal inside and outside (corrosivity class C4).

The service hatch is hinged mounted. The endless gasket on the inside of the service hatch, makes it highly airtight.

The filter housing has a leakage class of C according to EN 15727.

When the service hatch is closed the newly developed clamping device ensures the clamping of the filter.

As standard the casing has M8 threads for mounting the filter housing. The filter housing is supplied with a guide connection and a flange connection is available as an option.

Descriptive text example

Filterhousing: CamCube AC-1010. Supplier, Camfil Svenska AB.

Design: Sandwich construction with 45 mm heat and condensation insulation, covered with double aluzinc sheet metal (corrosivity class C4). Leakage class C.

Filter: 1 x Absolute C 595x595x292 mm H13.

Accessories: One set of adjustable feet. Hose connectors for pressure drop, factory mounted.

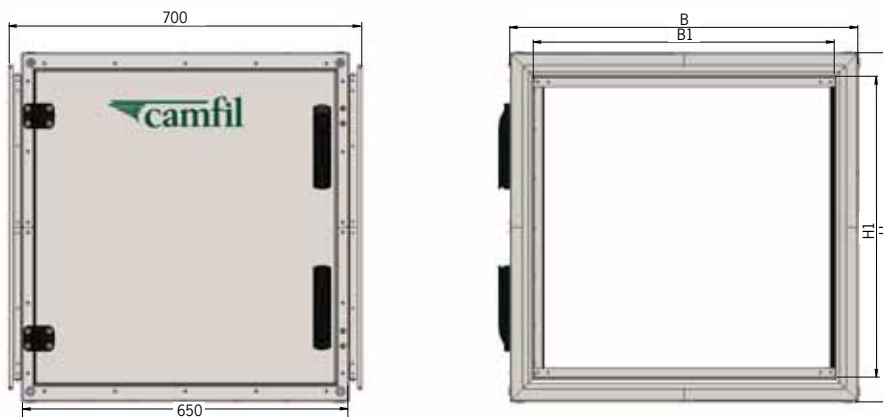
Classification:

Leakage class C, according to the EN 15727:2010 standard.

Leakage class L1 according to the EN 1886:2007 standard.

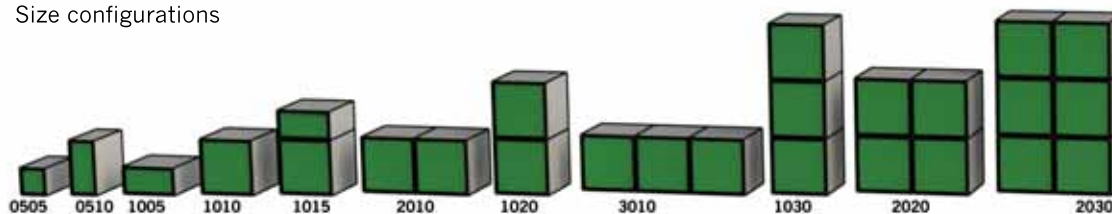
Mechanical performance: D1 according to the EN 1886:2007 standard.

Filter Housings



Model Name	External dimensions (BxH) mm	Connection dimensions (B1xH1) mm	Number of filters 595x595mm	Number of filters 297x595mm	Number of filters 595x297mm	Number of filters 297x297mm	Weight kg
CamCube AC-0505	392x392	300x300				1	24
CamCube AC-0510	392x692	300x600		1			34
CamCube AC-1005	692x392	600x300			1		34
CamCube AC-1010	692x692	600x600	1				43
CamCube AC-1015	692x992	600x900	1		1		55
CamCube AC-1020	692x1292	600x1200	2				64
CamCube AC-1025	692x1592	600x1500	2		1		76
CamCube AC-1030	692x1892	600x1800	3				85
CamCube AC-1510	992x692	900x600	1	1			53
CamCube AC-1515	992x992	900x900	1	1	1	1	66
CamCube AC-1520	992x1292	900x1200	2	2			76
CamCube AC-1530	992x1892	900x1800	3	3			99
CamCube AC-2010	1292x692	1200x600	2				62
CamCube AC-2015	1292x992	1200x900	2		2		77
CamCube AC-2020	1292x1292	1200x1200	4				86
CamCube AC-2025	1292x1592	1200x1500	4		2		100
CamCube AC-2030	1292x1892	1200x1800	6				109
CamCube AC-2510	1592x692	1500x600	2	1			74
CamCube AC-2515	1592x992	1500x900	2	1	2	1	89
CamCube AC-2520	1592x1292	1500x1200	4	2			98
CamCube AC-3010	1892x692	1800x600	3				83
CamCube AC-3020	1892x1292	1800x1200	6				108
CamCube AC-3030	1892x1892	1800x1800	9				134

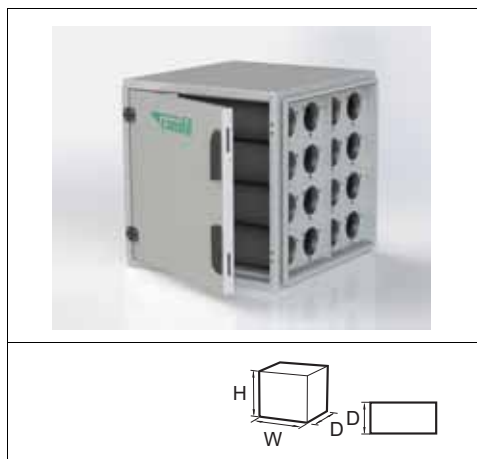
Size configurations



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Housings

CamCube CC, filter housings for cylindrical carbon filter



- Easy to install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Clamping device for the filter
- Stable and secure design

Filter housing material: Aluzinc

Filter: Cylindrical filters for loose filled carbon type Camcarb, available in plastic, GZ-steel or stainless steel (EN1.4301). Filled with different types of adsorbents depending on application. See the relevant page in the catalogue for further information.

Air flow: Recommended air flow at 0,1 at 0,2 sec contact time, see table next page. See also each catalog page for further information.

Note: Door hinged on the left or right. Can be changed on site.

Accessories:

- Prefilter or afterfilter mounting rail 50 mm
- Adjustable feet (4 per set) refrence 550902
- Hose connectors for pressure drop, supplied separately refrence 550901
- Hose connectors for pressure drop, factory mounted refrence 550900
- Lockable handles
- Flange adaptor

Product description

CamCube CC is a flexible and compact range of filter housings for cylindrical filters in length 450 mm.

Two stage filtration is available as an option with a prefilter or afterfilter mounting rail for panel filters.

The housing is a sandwich design with 45 mm heat and condensation insulation between, covered with aluzinc sheet metal inside and outside (corrosivity class C4).

The service hatch is hinged mounted. The endless gasket on the inside of the service hatch makes it highly airtight.

The filter housing has a leakage class of C according to EN 15727.

As standard the casing has M8 threads for mounting the filter housing. The filter housing is supplied with a guide connection, and a flange connection is available as an option.

Descriptive text example:

Filter housing: CamCube CC-1010. Supplier, Camfil Svenska AB

Design: Sandwich construction with 45 mm heat and condensation insulation, covered with double aluzinc sheet metal (corrosivity class C4). Leakage class C.

Filter: 16 pcs Camcarb 2600 GZ D=145 mm L=450 mm CEX003

Accessories: One set of adjustable feet. Hose connectors for pressure drop, factory mounted.

Classification:

Leakage class C, according to the EN 15727:2010 standard.

Leakage class L1 according to the EN 1886:2007 standard.

Mechanical perfomance: D1 according to the EN 1886:2007 standard.



M8 threads for mounting

Guide connection as standard

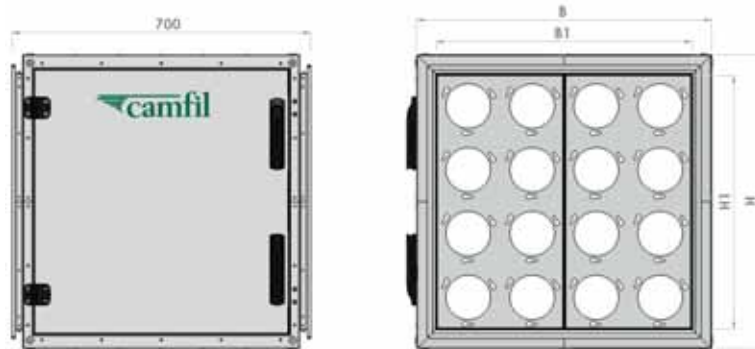


Endless gasket in the service hatch



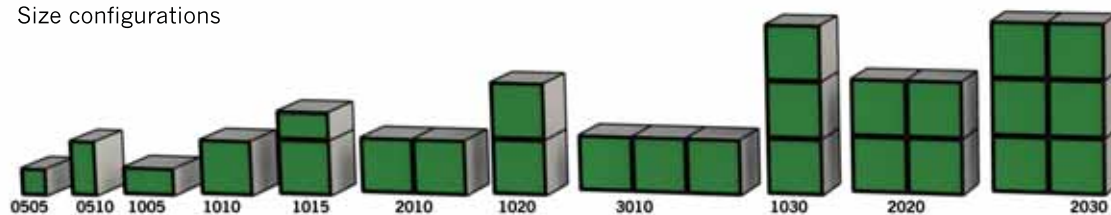
Cylinder for the housing

Filter Housings



Model Name	External dimensions (BxH) mm	Connection dimensions (B1xH1) mm	Number of cylinders	m3/h at 0,1 sec contact time	m3/h at 0,2 sec contact time	Weight kg
CamCube CC-0505	392x392	300x300	4	650	310	24
CamCube CC-0510	392x692	300x600	8	1300	620	34
CamCube CC-1005	692x392	600x300	8	1300	625	34
CamCube CC-1010	692x692	600x600	16	2600	1250	43
CamCube CC-1015	692x992	600x900	24	3900	1875	55
CamCube CC-1020	692x1292	600x1200	32	5200	2500	64
CamCube CC-1025	692x1592	600x1500	40	6500	3125	76
CamCube CC-1030	692x1892	600x1800	48	7800	3750	85
CamCube CC-1510	992x692	900x600	24	3900	1875	53
CamCube CC-1515	992x992	900x900	36	5850	2810	66
CamCube CC-1520	992x1292	900x1200	48	7800	3750	76
CamCube CC-1525	992x1592	900x1500	60	9750	4685	89
CamCube CC-1530	992x1892	900x1800	72	11700	5625	99
CamCube CC-2010	1292x692	1200x600	32	5200	2500	62
CamCube CC-2015	1292x992	1200x900	48	7800	3750	77
CamCube CC-2020	1292x1292	1200x1200	64	10400	5000	86
CamCube CC-2025	1292x1592	1200x1500	80	13000	6250	100
CamCube CC-2030	1292x1892	1200x1800	96	15600	7500	109
CamCube CC-2510	1592x692	1500x600	40	6500	3125	74
CamCube CC-2515	1592x992	1500x900	60	9750	4685	89
CamCube CC-2520	1592x1292	1500x1200	80	13000	6250	98
CamCube CC-2525	1592x1592	1500x1500	100	16250	7810	113
CamCube CC-2530	1592x1892	1500x1800	120	19500	9375	123
CamCube CC-3010	1892x692	1800x600	48	7800	3750	83
CamCube CC-3015	1892x992	1800x900	72	11700	5625	99
CamCube CC-3020	1892x1292	1800x1200	96	15600	7500	108
CamCube CC-3025	1892x1592	1800x1500	120	19500	9375	124
CamCube CC-3030	1892x1892	1800x1800	144	23400	11250	134

Size configurations



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Housings

FCBL-CC



Advantages

- Easy to Install
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Easy servicing
- Stable and secure design
- Modular construction
- CREO Approved

Housing: Galvanised steel.

Filters: Carbon cylinders 1000, 2000 or 2600.

Carbon CM05: For odours and VOC's.

Carbon CM07: For gases as H₂S, SO₂, NH₃.

Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).

Please note: Stainless steel version is also available

Model Name	Exterior dimensions (WxHxD) mm	Interior dimension (WxH) mm	Number of cylinders	Volume m ³	Weight kg
FCBL-CC 0510	399×744×750	309×610	8	0.23	25.5
FCBL-CC 1005	704×439×750	614×309	8	0.24	25.5
FCBL-CC 1010	704×744×750	614×614	16	0.4	33
FCBL-CC 1015	704×1055×750	614×925	24	0.57	49.5
FCBL-CC 1020	704×1360×750	614×1230	32	0.73	58.5
FCBL-CC 1025	704×1670×750	614×1540	40	0.9	75
FCBL-CC 1030	704×1975×750	614×1845	48	1.06	82.5
FCBL-CC 1510	1013×744×750	923×614	24	0.58	45
FCBL-CC 1520	1013×1360×750	923×1230	48	1.05	75
FCBL-CC 1530	1013×1975×750	923×1845	72	1.53	110
FCBL-CC 2010	1318×744×750	1228×614	32	0.75	53
FCBL-CC 2015	1318×1055×750	1228×925	48	1.06	80.5
FCBL-CC 2020	1318×1360×750	1228×1228	64	1.37	91.5
FCBL-CC 2025	1318×1670×750	1228×1540	80	1.68	118
FCBL-CC 2030	1318×1975×750	1228×1845	96	1.99	128.5
FCBL-CC 2510	1677×744×750	1537×614	40	0.95	65
FCBL-CC 2520	1677×1360×750	1537×1230	80	1.74	111
FCBL-CC 2530	1677×1975×750	1537×1845	120	2.53	157.5
FCBL-CC 3010	1982×744×750	1842×614	48	1.13	72.5
FCBL-CC 3015	1982×1055×750	1842×925	72	1.6	111
FCBL-CC 3020	1982×1360×750	1842×1230	96	2.06	124.5
FCBL-CC 3025	1982×1670×750	1842×1540	120	2.53	161.5
FCBL-CC 3030	1982×1975×750	1842×1842	144	2.99	175

Other dimensions and arrangements available on request

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Housings

FCBS-A



Advantages

- Easy to Install
- Modular construction
- No tools needed to change filters
- Gasket to seal between door and filter housing
- Easy servicing
- Stable and secure design

Housing: Galvanised steel.

Filters: Absolute, AIROPAC, MICRETAIR and SOFILAIR.

Alternative: Possibility to switch the housings 180° (flexibility to access from left or right side).

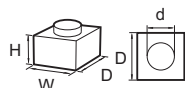
Please note: Stainless steel version is also available.

Model Name	Exterior dimensions WxHxD mm	Interior dimensions WxH mm	Number of filters 592x592 mm	Number of filters 287x592 mm	Volume m ³	Weight kg
FCBS-A 0510	399x744x500	309x614	-	1	0.15	20
FCBS-A 1005	704x439x500	614x309	-	1	0.16	20
FCBS-A 1010	704x744x500	614x614	1	-	0.27	26
FCBS-A 1015	704x1055x500	614x925	1	1	0.38	41
FCBS-A 1020	704x1360x500	614x1230	2	-	0.49	46
FCBS-A 1025	704x1670x500	614x1540	2	-	0.6	59
FCBS-A 1030	704x1975x500	614x1845	3	-	0.71	68
FCBS-A 1510	1013x744x500	923x614	1	-	0.39	37
FCBS-A 1520	1013x1360x500	923x1230	2	2	0.7	62
FCBS-A 1530	1013x1975x500	923x1845	3	3	1.03	88
FCBS-A 2010	1318x744x500	1228x614	2	-	0.5	42
FCBS-A 2015	1318x1055x500	1228x925	2	2	0.71	68
FCBS-A 2020	1318x1360x500	1228x1228	4	-	0.92	72
FCBS-A 2025	1318x1670x500	1228x1540	4	2	1.13	95
FCBS-A 2030	1318x1975x500	1228x1845	6	-	1.33	101
FCBS-A 2510	1677x744x500	1537x614	2	1	0.64	51
FCBS-A 2520	1677x1360x500	1537x1230	4	2	1.17	89
FCBS-A 2530	1677x1975x500	1537x1845	6	3	1.7	126
FCBS-A 3010	1982x744x500	1842x614	3	-	0.76	59
FCBS-A 3015	1982x1055x500	1842x925	3	3	1.07	89
FCBS-A 3020	1982x1360x500	1842x1230	6	-	1.38	98
FCBS-A 3025	1982x1670x500	1842x1540	6	3	1.7	130
FCBS-A 3030	1982x1975x500	1842x1842	9	-	2	138

Other dimensions and arrangements available on request

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Pharmaseal-E top entry: full equipment



Advantages

- Combines all the essential functions required for pharmaceutical and biotechnology facilities
- Integrated Control panel : all controls and connections accessible from room side
- Easy maintenance : quick filter change
- Long term reliability : fully welded seams
- Airflow adjustment by "Radial" damper
- Traceability : unique serial number
- Individual tightness test at factory

Application: Turbulent airflow clean rooms in bio-pharma

Type: Terminal filter ducted ceiling housing for HEPA/ULPA filters in clean rooms, gel seal or expanded PU gasket, with individual "Radial" damper, for fully equipped GMP tests

Construction: Galvanised steel, fully welded seams, white epoxy paint, oven baked

Damper: Individual adjustable "Radial" damper, for airflow adjustment accessible from room side

- Included functions accessible from room side:

- * Static pressure port
- * Damper control with Damper position indicator
- * Aerosol dispersion ring with Aerosol port injection

For filters: High airflow MEGALAM MG HFU HD (gel seal) or HFP HD (PU gasket) to be ordered separately.

Filter Mounting: Quick filter change using pivoting clamps fitted with compression limiter.

Filter seal: Knife edge for immediate air tightness with gel or PU gasket.

Control: Individually leak tested at 750 Pa by pressure decay according to NF M 62200.

Fastening : By removable "universal blocks", suspended by hangers or integrated into clean room ceiling panels

Hinged grids: Perforated, swirl, 4 ways adjustable blades to order separately

Model Name	Model	Size (AxBxH/Ø) mm	For filters (WxHxD) mm	Weight kg	Volume m3
TOP ENTRY					
Pharmaseal-E full	PHE-3P3-TS-C160-F	392x392x370/160	331/295x283/247x123	5,9	0,06
Pharmaseal-E full	PHE-5P5-TS-C250-F	595x595x370/250	535/499x487/451x123	6,7	0,13
Pharmaseal-E full	PHE-11P5-TS-C315-F	595x1195x370/315	1087/1051x487/451x123	12,5	0,26
SIDE ENTRY					
Pharmaseal-E full	PHE-3P3-LS-C160-F	392x392x420/160	331/295x283/247x123	5,9	0,06
Pharmaseal-E full	PHE-5P5-LS-C250-F	595x595x510/250	535/499x487/451x123	6,7	0,13
Pharmaseal-E full	PHE-11P5-LS-C315-F	595x1195x575/315	1087/1051x487/451x123	12,5	0,26

Grid not included: see CamSeal grid reference

Model Name	Model	Filter class	Size ext/int (WxHxD) mm	Media Area m ²	Airflow / Pressure drop m ³ /h/Pa	Weight kg
Filters for Pharmaseal-E seal gel, 2 faceguard						
MG14 HFU HD-2G	3P3	H14	323/287x283/247x123	3,3	380/250	4
MG14 HFU HD-2G	5P5	H14	535/499x487/451x123	11,5	1200/250	6,5
MG14 HFU HD-2G	11P5	H14	1087/1051x487/451x123	25,1	2500/250	12
Filters for Pharmaseal-E PU gasket, 2 faceguard						
MG14 HFP HD-2G	3P3	H14	323/287x283/247x123	3,3	380/250	4
MG14 HFP HD-2G	5P5	H14	535/499x487/451x123	11,5	1200/250	6,5
MG14 HFP HD-2G	11P5	H14	1087/1051x487/451x123	25,1	2500/250	12



CamSeal: Optional Integrated Damper



Advantages

- Economical design
- Simplified filter maintenance : no tools
- Control ports room side
- For pressure drop and integrity
- High airflow per unit
- Versatile air diffusion possibilities
- Non-unidirectional airflow for clean room
- Interchangeable grids
- Tool-free access to filter
- Damper adjustable from room side

Applications: Turbulent airflow clean rooms and hospitals

Type: Ceiling housing for final filtration in clean rooms and hospitals

Installation: In T bar grid or suspended or fixed by brace

Construction: Plenum : galvanized steel ; clean part : white painted RAL9010 oven backed

For filters: Megalam MG HFC HD high airflow HEPA panels

Mounting of filters: Clamping device with gasket compression limitation

Pressure drop: 1 standard, access from room side

Connection: By collar on lateral side or superior

Damper: Adjustable from room side

Options: Swirl, perforated flush, adjustable vanes or 4 way grids to be ordered separately

Note: All grids are hunged

Construction: Galvanized steel and white part painted RAL9010 oven backed

Closure: Instant magnetic studs

Mounting: CamSeal housing

Model Name	Model	Size WxHxD/Ø mm	For filters HFC size mm	Weight kg	Volume m ³
HOUSINGS					
Side Entry	CSL-3P3-LS-C160	392x392x362/160	325/301x325/301x104	7.0	0.06
Side Entry	CSL-5P5-LS-C250	595x595x452/250	528/504x528/504x104	9.6	0.16
With Damper integrated	CSL-3P3-LS-C160D	392x392x362/160	325/301x325/301x104	7.0	0.06
With Damper integrated	CSL-5P5-LS-C250D	595x595x452/250	528/504x528/504x104	9.6	0.16
Top Entry	CSL-3P3-TS-C160	392x392x270/160	325/301x325/301x104	5.9	0.06
Top Entry	CSL-5P5-TS-C250	595x595x270/250	528/504x528/504x104	6.7	0.13
GRIDS					
4 way	CSL-4W-3P3	347x347x35	Pour caisson CamSeal CSL 3P3	1.0	0.004
4 way	CSL-4W-5P5	549x549x35	Pour caisson CamSeal CSL 5P5	1.8	0.011
Swirl	CSL-SW-3P3	346x346x20	Pour caisson CamSeal CSL 3P3	1.3	0.004
Swirl	CSL-SW-5P5	549x549x20	Pour caisson CamSeal CSL 5P5	2.9	0.011
Perforated flush	CSL-PF-3P3	346x346x16	Pour caisson CamSeal CSL 3P3	1.0	0.004
Perforated flush	CSL-PF-5P5	549x549x16	Pour caisson CamSeal CSL 5P5	2.5	0.011

Model Name	Size (WxHxD) mm	Filter class	Area m ²	Airflow / Pressuredrop m ³ /h/Pa	Weight kg	Volume m ³
MG10 HFC HD-2G	300x300x104	E10	4.0	500/250	3.5	0.01
MG10 HFC HD-2G	503x503x104	E10	12.0	1500/250	6.5	0.03
MG14 HFC HD-2G	300x300x104	H14	5.3	490/250	3.5	0.01
MG14 HFC HD-2G	503x503x104	H14	14.2	1370/250	6.5	0.03

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CleanSeal top entry PU gasket: full equipment



Advantages

- **NEW! Tool-less filter clamping 100% secured and immediate**
- **NEW! Quick grid locking for immediate access to filter**
- **Long lasting reliability and tightness: robust fully welded construction**
- **Easy installation: unique movable supporting blocks included**
- **Large choice of standardized sizes**
- **Complete interchangeable diffusion plates range**

Application: Turbulent airflow in clean rooms

Type: Terminal housing for HEPA/ULPA filters with PU gasket

Construction: Galvanized steel, fully welded seams

Finishing: White epoxy coated RAL 9010

Connection: By ribbed circular inlet continuous welded on top

For Filters: MEGALAM MD/MX/MD PU gasket frame height (66/90/110mm) (to be ordered separately)

Filter Mounting: Tool-less multi-height quick release lever clamp for immediate and secured clamping including gasket compression limiter and filter retainer.

Control equipment: room side access : 1 port for dp or 100%

Housing installation: by removable «universal blocks, for suspension by hangers, or integration into clean room ceiling panels or fitting into T bar grids system

Diffusion plates (to be ordered separately): Flush hinged grids with “credit card” quick locking: Perforated, swirl, 4 ways, adjustable blades

Model Name	Model***	Size* (AxBxH**/Ø)mm	For filters (WxHxD) mm	Volume m ³	Weight kg
Top entry-PU	CL-SW-3P3-P-XX-T-C160-N-00-AAA	392x392x311/160	305x610x66/90/110	0.05	6.7
Top entry-PU	CL-SW-4P4-P-XX-T-C200-N-00-AAA	544x544x311/200	457x457x66/90/110	0.09	10.1
Top entry-PU	CL-SW-4P4-P-XX-T-C250-N-00-AAA	544x544x311/250	457x457x66/90/110	0.09	10.0
Top entry-PU	CL-SW-5P5-P-XX-T-C250-N-00-AAA	595x595x311/250	508x508x66/90/110	0.11	11.3
Top entry-PU	CL-SW-5P5-P-XX-T-C315-N-00-AAA	595x595x311/315	508x508x66/90/110	0.11	11.1
Top entry-PU	CL-SW-6P6-P-XX-T-C250-N-00-AAA	697x697x311/250	610x610x66/90/110	0.15	14.1
Top entry-PU	CL-SW-6P6-P-XX-T-C315-N-00-AAA	697x697x311/315	610x610x66/90/110	0.15	13.9
Top entry-PU	CL-SW-11P5-P-XX-T-C315-N-00-AAA	1195x595x311/315	1108x508x66/90/110	0.22	19.1
Top entry-PU	CL-SW-12P6-P-XX-T-C315-N-00-AAA	1307x697x311/315	1220x610x66/90/110	0.28	22.7

Note 1 (*): including peripheral return of 20mm
 Note 2 (**): including collar height of 46mm
 Note 3 (***) : for ordering, replace XX, and select filter frame height:
 MD for Megalam MD 66mm
 MX for Megalam MX 90mm
 MG for Megalam MG 110mm

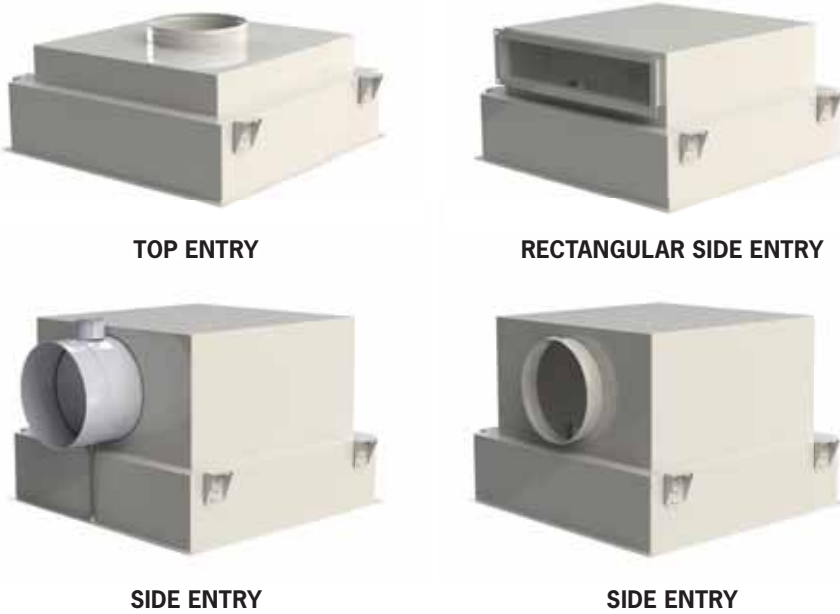
As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CleanSeal Product Overview

AVAILABLE DIFFUSERS



AVAILABLE CONFIGURATIONS



STANDARDIZED DIMENSIONS

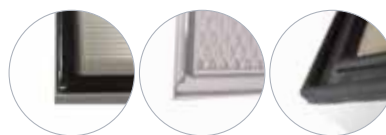
FILTER (ext./mm)

305 x 305 457 x 457 508 x 508 610 x 610 1108 x 508 1220 x 610

3P3	4P4	5P5	6P6	11P5	12P6
392 x 392	544 x 544	595 x 595	697 x 697	1195 x 595	1307 x 697
FRAME (ext./mm)					

AVAILABLE FOR ALL GASKET TYPES

CleanSeal versions allow customer to chose any type of gaskets DIN, PU or Camfil Gel gaskets.



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Cambox



Advantages

- Simple filter installation
- Available with safe change bag for contact-free filter change
- Available for different types of filters and sizes
- Available with screw or hinged inspection hatch
- Available in full or half-size module

Application: For the removal of hazardous dust and gas in laboratories, radiology departments and isolation wards.

Filter housings, painted: Epoxy resin coating, RAL 7037, clamping device made of stainless steel SS2333.

Filter housing stainless: Manufactured in AISI 304 stainless steel.

Filter housing stainless: Manufactured in AISI 316 corrosion-resistant stainless steel.

Standard: Connection for Ø315 mm or Ø200 mm flexible duct.

Optional: Ø 315 mm welded flange with connector for pressure drop measurement.

Door: Flat service cover.

Optional: Inspection hatch or special door for contamination-free change of changing bag.

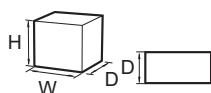
Note: * Inspection hatch have separate article numbers.

Filter: Absolute or Micretain model 450 and 1000, filter class E11-H14 according to EN 1822. Also Airopac model 3CPM-122412 and 3CPM-242412, filter class M6, F8 according to EN779:2012.

Model Name	Dimension (WxHxD) mm
Cambox 450, painted 200 mm duct	310x710x610
Cambox 1000, painted/ 315 mm duct	615x710x610
Cambox 450, painted/flanges	310x710x610
Cambox 1000, painted/flanges	615x710x610
Cambox 1000, stainless/duct	615x710x610
Cambox 1000, stainless/flanges	615x710x610
Accessories / options:	
Inspection hatch/painted	
Inspection hatch/stainless	
Service door/painted	
Service door/stainless	
Safe change bag/painted	
Safe change bag/stainless	
Manometers	
Rubber ring for a safe change bag	
Safe change bag, standard, without the rubber ring	
Safe change bag Nuclear	
Swivel joint wrench 10/11	

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamBox S



Advantages

- Integrated filter seal seat testing acc. KTA 3601
- Quick and easy installation
- Incl. maintenance bag for non-contact filter changes
- Pressure resistant up to 5000 Pa

Application: Separation of hazardous dusts and gases, which occur in isotope laboratories, laboratories cabinet, radiology departments, isolation or epidemiological stations

Housing epoxy painted (decontaminable): Epoxy painted (RAL 7037)

Housing stainless steel: Stainless steel 1.4301

Standard design: Spiro pipe connection DN 315, clamping device made of stainless steel 1.4301

Options: Flange DN 315, pressure tapping point, base frame

Filter: Airopac, Absolute and Micretain for CamBox S/D; Activated carbon filter for CamBox S/D AK

Remarks: Leak-tight testing instrument DSP-3 (please see page "Housing accessories")

Model Name	Dimensions WxHxD (mm)	Volume (m ³)	Weight kg
CamBox S/D 250, coated	710x366x717	0,21	29
CamBox S/D 600, coated	710x474x717	0,25	35
CamBox S/D 1000, coated	710x614x717	0,35	48
CamBox S/D 250, 1.4301	710x366x717	0,21	29
CamBox S/D 600, 1.4301	710x474x717	0,25	35
CamBox S/D 1000, 1.4301	710x614x717	0,35	48
CamBox S/D 1000 /AK, coated	710x614x717	0,35	48
CamBox S/D 1000 /AK, 1.4301	710x614x717	0,35	48

Equipment

Description	Remarks
Spacer 100, painted	for the front-end usability of multi-tiered systems for cabinet installation
CamBox socket spanner	required for tensioning and releasing the filter cartridge
Frame1-stage	for floor installation
CamBox 250 maintenance bag	protective bag for contact-free filter change (housing version 250)
Sealing ring Cambox 250	for clamping and sealing the maintenance bag (housing version 250)
CamBox 600 maintenance bag	protective bag for the contact-free filter replacement (housing version 600)
CamBox 1000 maintenance bag	protective bag for the contact-free filter replacement (housing version 1000)
Sealing ring Cambox 600 & 1000	for clamping and sealing the maintenance bag (housing version 600 & 1000)
Flange connection (painted version)	flange connection 320 x 30 (alternative to Spiro piping connection)
Flange connection in stainless steel 1.4301	flange connection 320 x 30 (alternative to Spiro piping connection)
Manometer connection	pressure measuring point for connecting a pressure gauge
CamBox measuring device 1-stage up to 0.5 kPa	pressure measuring device for filter monitoring (incl. installation without pressure-measuring point)
CamBox measuring device 1-stage up to 1 kPa	pressure measuring device for filter monitoring (incl. installation without pressure-measuring point)
CamBox lapped flange, S 235 steel	for customer-completed insertion or mounting
CamBox lapped flange 1.4301 stainless steel	for customer-completed insertion or mounting
Other equipments or multistage filter systems available on request	

CamContain



Advantages

- Integrated filter scanning technology
- Especially secure filter-clamping technology
- Innovative filter insertion device
- Safe decontamination concept

Typical applications: Hospital isolation rooms/wards and Intensive Care Units (ICUs) for the control of airborne pathogens, viral contaminants and infectious organisms.

Construction: Matched components can include bag-in/bag-out section, prefilter section, testing section and an optimized fan section.

Filters: Absolute[®] filters and various grades of ASHRAE grade filters for prefiltration.

Additional data: Consult factory or Product Sheet 3424 for additional information.

Safety cannot be stressed enough

Especially when it involves highly sensitive applications in which people, animals or the environment are endangered by highly infectious microorganisms, for example. High safety demands apply to all situations in which toxic, radioactive or bacterial substances must be isolated, such as in the pharmaceutical industry, with the use of biotechnical equipment as well as in BSL-3/BSL-4 laboratories and nuclear power engineering.

The filter housings have been designed to meet the highest safety demands.

To ensure a complete documentation of your air filtration, most notably in highly sensitive areas, the CamContain CS housing can be supplied with an integrated scanner. The HEPA filter can be tested on-site for separation efficiency and any leaks, and the results professionally documented.

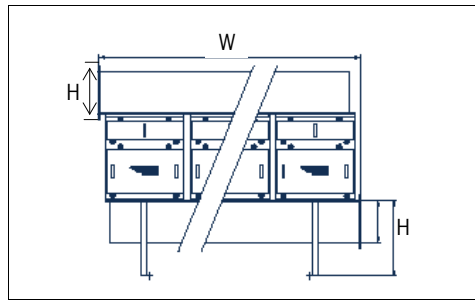
For applications in which dangerous microorganisms must be filtered out (BSL-3/BSL-4), the housing can be equipped with connections and devices for safe decontamination. What is more, the maintenance bag replacement technology guarantees additional safety for the operator.

The CamContain CS housings made of stainless steel are gas-tight welded, torsion-resistant and compliant with the highest tightness requirements, which are also commonly used in nuclear power plant engineering.



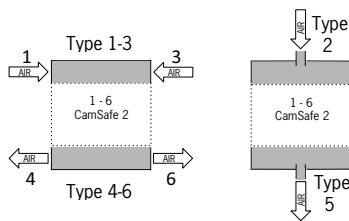
The CamScan Mobile is a mobile analysis unit for the automatic testing of an installed filter. As defined in the standard DIN 1822, the built-in filter can be tested for overall separation efficiency and any possible leaks. The computer that is integrated into the system stores the measurement values, which in turn allows for trouble-free documentation.

CamSafe 2 - Connecting Ducts painted



Advantages

- Modularity
- Fully welded airtight
- Flange drilled ready for operation
- Lifting eyes in standard



Application: Assembling casing in parallel to handle airflow up to 24000 m³/h.

Type: Connecting ducts for CamSafe 2 housing.

Construction: 2mm steel airtight welded, white epoxy painted oven baked RAL 9010, 70µm.

For housing: CamSafe 2 mounted in parallel.

Connection: Rectangular flanges pre-drilled at the factory.

Accessories: Gaskets and bolting kit (FPA1108).

Model Name	Airflow max. m ³ /h**	For many caissons in parallel	Size overall (LxHxP*) mm	Section inner flanges mm	Volume m ³	Weight kg
Ducting top side intake 1-1000/1-3	4 000	1	840x355x725	250x625	0.3	30
Ducting top side intake 2-1000/1-3	8 000	2	1625x425x725	320x625	0.6	45
Ducting top side intake 3-1000/1-3	12 000	3	2410x495x725	390x625	1.0	80
Ducting top side intake 4-1000/1-3	16 000	4	3195x595x725	490x625	1.6	105
Ducting top side intake 5-1000/1-3	20 000	5	4017x695x725	590x625	2.2	150
Ducting top side intake 6-1000/1-3	24 000	6	4802x800x725	695x625	3.0	195
Ducting bottom side exit 1-1000/4-6	4 000	1	840x700x725	250x625	0.5	40
Ducting bottom side exit 2-1000/4-6	8 000	2	1625x700x725	320x625	1.0	55
Ducting bottom side exit 3-1000/4-6	12 000	3	2410x700x725	390x625	1.6	85
Ducting bottom side exit 4-1000/4-6	16 000	4	3195x700x725	490x625	2.0	115
Ducting bottom side exit 5-1000/4-6	20 000	5	4017x700x725	590x625	2.6	165
Ducting bottom side exit 6-1000/4-6	24 000	6	4802x800x725	695x625	3.0	215
Ducting top central intake 1-1000/2	4 000	1	840x300x725	250x625	0.3	30
Ducting top central intake 2-1000/2	8 000	2	1625x370x725	320x625	0.6	45
Ducting top central intake 3-1000/2	12 000	3	2410x440x725	390x625	1.0	80
Ducting top central intake 4-1000/2	16 000	4	3195x540x725	490x625	1.6	105
Ducting top central intake 5-1000/2	20 000	5	4017x640x725	590x625	2.2	150
Ducting top central intake 6-1000/2	24 000	6	4802x740x725	695x625	3.0	195
Ducting top central exit 1-1000/2	4 000	1	840x300x725	250x625	0.5	40
Ducting top central exit 2-1000/2	8 000	2	1625x370x725	320x625	1.0	55
Ducting top central exit 3-1000/2	12 000	3	2410x440x725	390x625	1.6	90
Ducting top central exit 4-1000/2	16 000	4	3195x540x725	490x625	2.0	125

** Depending on the filter used

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

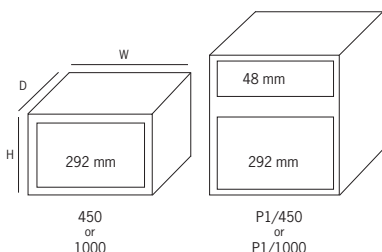
CamSafe 2 - Safe change filter casing Bag In Bag Out (BIBO) - painted version

NEW ! Unique System "Twice the Security"



Advantages

- Modularity and Flexibility
- High security guarantee: class 3 ISO10648-2 at +/- 6000Pa
- Filter clamping "Twice the Security" (patented)
- High operator protection by BIBO
- Fully welded



Applications: Exhaust of contaminated air (particles, microorganisms, molecules), filter changing in secure plastic bag: Pharmaceutical, Biotechnology, Chemistry, Hospitals, Laboratories biosafety, animal facilities.

Type: Modular system BIBO safe change housing to be assembled, fully welded.

Construction: 2mm steel airtight welded.

Finish: White epoxy painted baked RAL 9010 70µm.

Filter frame: Continuous welded.

For filters: Filters 292mm depth particle Opakair, Absolute™ and carbon Acticarb and 48mm depth Prefilters kind AeroPleat, EcoPleat, MPleat.

Filters mounting : Fast filter clamping by cam factory set, equipped with a "twice security" both on clamping frame and door: impossible to clamp the filter if not correctly positioned and impossible to close the door if the filter is not clamped.

Connection: Rectangular flanges pre-drilled.

Pressure ports: Locations provided upstream and downstream (pressure port kit to be ordered separately).

Performance: Housing qualified +/- 6000Pa: Class 3 acc. to ISO 10648-2, L1 acc. to EN1886, Class D acc. to EN12237, Class C acc. to Eurovent 2/2. Max penetration gasket frame at 600Pa: <0.01% by ISO14644-3.

Accessories: Safe change bag with integrated o-ring sealable (FPA0466)
Gaskets and bolting kit (FPA1108)

Connecting ducks 1-6 housing in parallel for high flow rates (FPA1107)

Pressure test kit (FPA0526)

Option: Stainless steel, factory mounting full or partial, individual factory tests with test report.

Model Name	Model	Sizes overall (WxHxD) mm	Filter 1st row	Filter terminal	Flange mm	Volume m ³	Weight kg
CamSafe 2	Painted Housing 450	730x535x510	-	305x610x292	730x420	0.2	38
CamSafe 2	Painted Housing P1/450	730x790x510	305x610x48	305x610x292	730x420	0.3	60
CamSafe 2	Painted Housing 1000	730x535x815	-	610x610x292	730x725	0.4	44
CamSafe 2	Painted Housing P1/1000	730x790x815	610x610x48	610x610x292	730x725	0.5	69

CamSafe 2 - Safe change filter housing Bag In Bag Out

Laboratories and containment areas



Option scan manual :

Option scan manual : for more security, no intrusive filter test

Advantages

- **Tightness qualified at +/- 6000Pa**
- **Maximum local penetration on the filter gasket flange 10^{-4} (0.01 %)**

Type: Modular system BIBO safe change housing specially designed for dangerous material. Airflow can be vertical or horizontal

Construction: 2mm steel housing and filter gasket flanged continuously welded

Painted: Epoxy powder RAL 9010 70µm

Accessories: Safe change bag with integrated o-ring sealable 1900.45.01 for 48, 1900.46.01 for 292.

Filters: Filters 292mm depth. Particle filter type: Opakair, Absolute and carbon filter: Acticarb.

Connection: Rectangular flanges pre-drilled

Applications: Exhaust of contaminated air (particles, microorganisms,

New: For added security: Using the scanning option filter according to ISO EN 14644-3

molecules), filter changing in secure plastic bag: Pharmaceutical, Biotechnology, Chemistry, Hospitals, Laboratories biosafety, animal facilities.

Maintenance of safe and simple filters without tools



- Ergonomic wheels for easy handling with gloves
- Doors with mistake proofing system which not allows to close if the filter is not properly installed



- Quick clamping system set for life with spring compensation
- Caller with double groove to secure the filter change

Change filters without breaking containment, so no risk of contamination to the operator and the environment



- Change the filters in thick sealable plastic bag with sleeve to secure the change of the contaminated filter and the running bag

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

PVC CASE VHE FILTERS 5 m³/h



Advantages

- Can be adapted to small airflows
- Irradiation resistant
- Space saving

Applications: Arresting dust, bacteria and aerosols; manometer protection; safety valve exhaust for: nuclear and pharmaceutical industries and hospitals.

Type: Filters for glove boxes and containment enclosures.

Media: Glass fiber paper (fire classification M1). Gamma irradiation resistance according to standard ASME-AG1.

Separators: Glass fiber thread.

Sealant: Polyurethane (fibre classification M3).

Case: Polyvinyl chloride (PVC).

Gasket: Neoprene.

Uranine efficiency: >99.98% (standard NFX 44-011).

Recommended final pressure drop: 600 Pa.

Admissible maximum pressure drop: 1000 Pa.

Uranine decontamination factor: > 5000 (standard NFX 44-011).

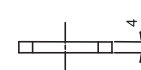
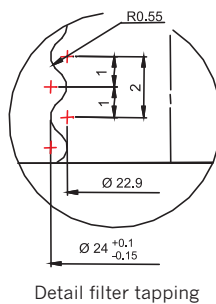
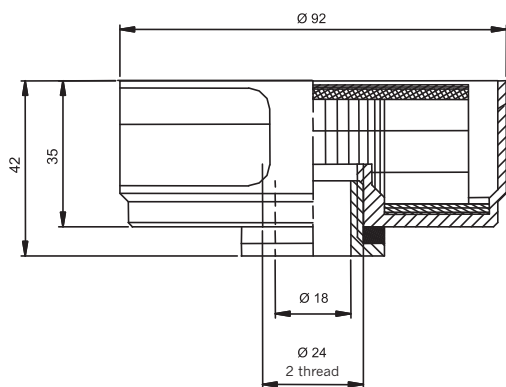
Maximum airflow: Nominal airflow.

Temperature: 70° C maximum in continuous service.

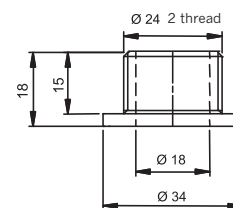
Control: Leak detection 100% of products.

Mounting systems: Stainless steel casing.

Model Name	Dimensions (ØxH) mm	Uranine efficiency	Uranine FR	Area m ²	Airflow / P m ³ /h / Pa	Thread gasket	Gasket	Calorific potential MJ	Weight kg	Volume m ³
5 m ³ /h filter with open casing Delivered with ring and gasket	92 x 35	At 5 m ³ /h > 99.98%	At 5 m ³ /h FR > 5000	0,07	5 / 220 3 / 130 1 / 60	See special details	Neoprene 4mm thick	0,9	0,125	0,0003



Gasket
Ref. 1112.15.00



Clip
Ref. 1176.600

PVC CASE VHE FILTERS 20-30-50 m³/h



Advantages

- Can be adapted to small airflows
- Space saving
- Irradiation resistant
- Prehension cross bar from model 50m³/h
- Peripheral opening: safety feature for passage of airflow

Applications: Arresting dust, bacteria and aerosols; manometer protection; safety valve exhaust for: nuclear and pharmaceutical industries and hospital establishments.

Type: Filters for glove boxes and containment enclosures.

Media: Glass fiber paper (fiber classification M1). Gamma irradiation resistance according to standard ASME-AG1.

Separators: Glass fiber thread.

Sealant: Polyurethane (fiber classification M3).

Case: Polyvinyl chloride (PVC).

Gasket: Neoprene.

Uranine efficiency: >99.98% (standard NFX 44-011).

Recommended final pressure drop: 600 Pa.

Admissible maximum pressure drop: 1000 Pa.

Uranine decontamination factor: > 5000 (standard NFX 44-011).

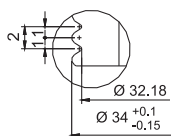
Maximum airflow: Nominal airflow.

Temperature: 70° C maximum in continuous service.

Control: Leak detection 100% of products.

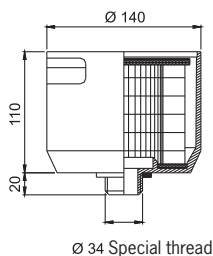
Mounting systems: Stainless steel casing.

Model Name	Dimensions (ØxH) mm	Uranine efficiency	Uranine FR	Area m ²	Airflow / P m ³ /h / Pa	Thread gasket	Gasket	Calorific potential MJ	Weight kg	Volume m ³
20 m ³ /h filter with open casing	140x130	At 20 m ³ /h >99.98%	At 20 m ³ /h FR > 5000	49	20 / 21015 / 15010 / 70	Ø 34 see special detail	Neoprene 4mm thick		5	2
30 m ³ /h filter with open casing	140x130	At 30 m ³ /h >99.98%	At 30 m ³ /h FR > 5000	49	30 / 18020 / 11010 / 50	Ø 61.62.5 thread	Neoprene 4mm thick	15	56	2
30 m ³ /h filter with peripheral openings	140x130	At 30 m ³ /h >99.98%	At 30 m ³ /h FR > 5000	49	30 / 18020 / 11010 / 50	Ø 61.62.5 thread	Neoprene 4mm thick		5	2
50 m ³ /h filter with open casing Prehension cross bar	160x173	At 50 m ³ /h >99.98%	At 50 m ³ /h FR > 5000	75	50 / 20030 / 11020 / 70	Ø 61.62.5 thread	Neoprene 4mm thick	166	9	35
50 m ³ /h filter with peripheral openings Prehension cross bar	160x173	At 50 m ³ /h >99.98%	At 50 m ³ /h FR > 5000	75	50 / 20030 / 11020 / 70	Ø 61.62.5 thread	Neoprene 4mm thick		8	35



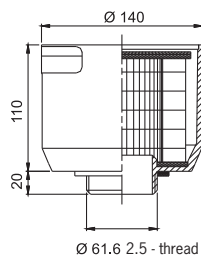
Detail special threading

réf. 3211.01.00



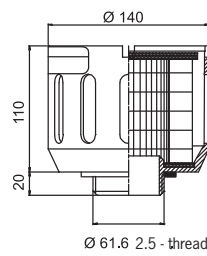
Ø 34 Special thread

réf. 3201.01.00



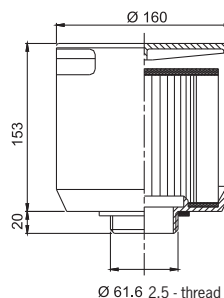
Ø 61.6 2.5 - thread

réf. 3201.01.01



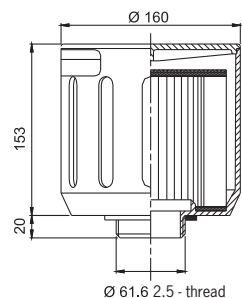
Ø 61.6 2.5 - thread

réf. 3202.04.00



Ø 61.6 2.5 - thread

réf. 3202.04.01



Ø 61.6 2.5 - thread

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

PVC CASE VHE FILTERS 30 m³/h et 50 m³/h



Advantages

- Filter standing peracetic acid
- Fluted adaptor

Applications: Arresting dust, bacteria and aerosols; manometer protection; safety valve exhaust for: nuclear and pharmaceutical industries and hospital establishments.

Type: Filters for glove boxes and containment enclosures.

Media: Glass fiber paper (fire classification M1). Gamma irradiation resistance according to standard ASME-AG1.

Separators: Glass fiber thread.

Sealant: Polyurethane (fire classification M3).

Case: Polyvinyl chloride (PVC).

Gasket: Neoprene.

Uranine efficiency: >99.98% (standard NFX 44-011).

Recommended final pressure drop: 600 Pa.

Admissible maximum pressure drop: 1000 Pa.

Uranine decontamination factor: > 5000 (standard NFX 44-011).

Maximum airflow: Nominal airflow.

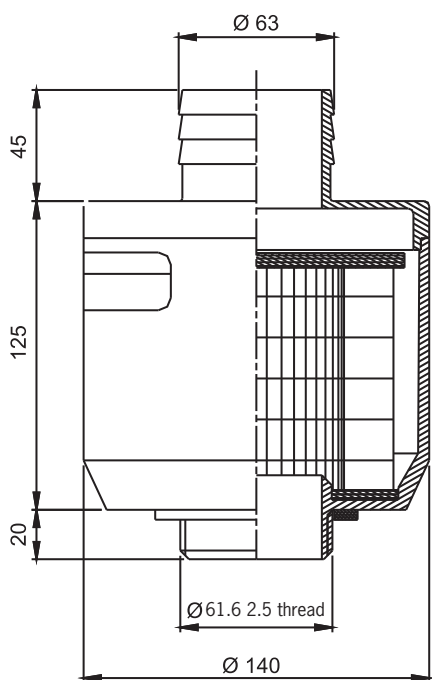
Temperature: 70° C maximum in continuous service.

Control: Leak detection 100% of products.

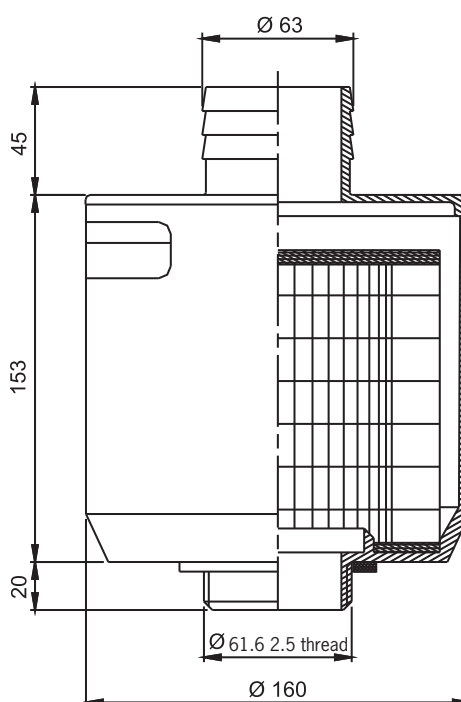
Mounting systems: Stainless steel casing.

ModelName	Dimensions (ØxH) mm	Uranine efficiency	Uranine FR	Area m ²	Airflow / P m ³ /h / Pa	Thread gasket	Gasket	Calorific potential MJ	Weight kg	Volume m ³
30 m ³ /h filter with closed casing	140 x 190	At 30 m ³ /h >99.98%	At 30 m ³ /h FR > 5000	0,49	30 / 200 20 / 120 10 / 40	Ø 61.6 2.5 thread	Neoprene 5mm thick		0,745	0,003
50 m ³ /h filter with closed casing	160 x 218	At 50 m ³ /h >99.98%	At 50 m ³ /h FR > 5000	0,75	50 / 250 30 / 130 20 / 80	Ø 61.6 2.5 thread	Neoprene 5mm thick	18	1,2	0,0045

30 m³/h
Ref. 3203.01.00



50 m³/h
Ref. 3204.01.00



METAL CASE VHE FILTERS 30-70 m³/h



Advantages

- Temperature resistance
- Low calorific potential
- Prehension ability
- Has a performance guarantee sheet

Applications: Arresting dust, bacteria and aerosols; manometer protection; safety valve exhaust for: nuclear and pharmaceutical industries and hospital establishments.

Type: Filters for glove boxes and containment enclosures.

Media: Glass fiber paper (fire classification M1). Gamma irradiation resistance according to standard ASME-AG-1.

Separators: Glass fiber thread.

Sealant: Polyvinyl chloride (PVC fire classification M2)

Case: Zinc-bichromate plated sheet metal or stainless steel Z2CN18-10 depending on model.

Gasket: Viton O-ring.

Handle: 1.

Uranine efficiency: >99.98% (standard NFX 44-011).

Recommended final pressure drop: 600 Pa.

Admissible maximum pressure drop: 1000 Pa.

Uranine decontamination factor: > 5000 (standard NFX 44-011).

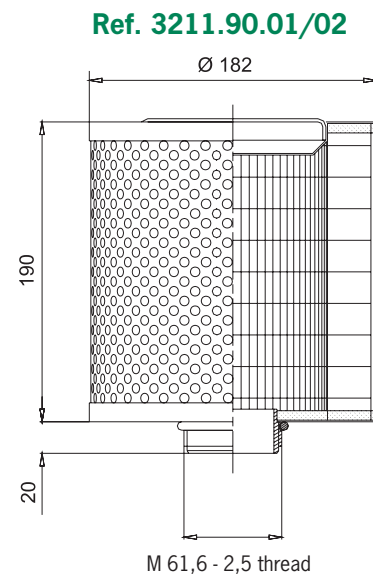
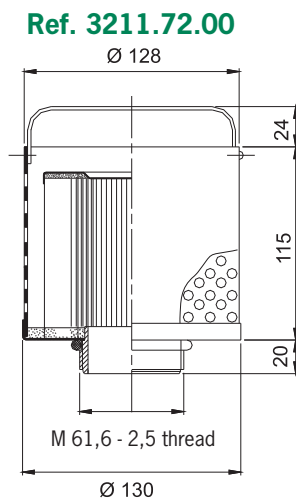
Maximum airflow: Nominal airflow.

Temperature: 120° C maximum in continuous service and 200°C for 1 hour.

Control: Leak detection 100% of products.

Mounting systems: Stainless steel casing.

Model Name	Dimensions (ØxH) mm	Uranine efficiency	Uranine FR	Area m ²	Airflow / P m ³ /h / Pa	Thread gasket	Casing	Sealant	Gasket	Calorific potential MJ	Weight kg	Volume m ³
30 m ³ /h filter with open casing	130 x 159	At 30 m ³ /h > 99.98%	At 30 m ³ /h FR > 5000	0,49	30 / 180 20 / 110 10 / 50	M 62 2,5 thread	S/Steel sheet Z2CN18-10	PVC	Viton R35	5,1	0,65	0,002
70 m ³ /h screw filter	182 x 210	At 70 m ³ /h > 99.98%	At 70 m ³ /h FR > 5000	1,75	70 / 165 50 / 105 30 / 55	M 62 2,5 thread	Zinc-bi. plated steel sheet	Polyurethane	Viton R35		1,47	0,008
70 m ³ /h screw filter	182 x 210	At 70 m ³ /h > 99.98%	At 70 m ³ /h FR > 5000	1,75	70 / 165 50 / 105 30 / 55	M 62 2,5 thread	S/Steel sheet Z2CN18-10	Polyurethane	Viton R35		1,47	0,008



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

METAL CASE VHE FILTERS 300 m³/h



Advantages

- Temperature resistance
- Low calorific potential
- Prehension ability
- Has a performance guarantee sheet

Applications: Arresting dust, bacteria and aerosols; manometer protection; safety valve exhaust for: nuclear and pharmaceutical industries and hospital establishments.

Type: Filters for glove boxes and containment enclosures.

Media: Glass fiber paper (fiber classification M1). Gamma irradiation resistance according to standard ASME-AG1.

Separators: Glass fiber thread.

Sealant: Polyvinyl chloride (PVC fiber classification M2) or polyurethane (M3 fiber classification) depending on model.

Case: Zinc-bichromate plated sheet metal or stainless steel Z2CN18-10 depending on model.

Gasket: Viton O-ring

Handle: 1.

Uranine efficiency: >99.98% (standard NFX 44-011).

Recommended final pressure drop: 600 Pa.

Admissible maximum pressure drop: 1000 Pa.

Uranine decontamination factor: > 5000 (standard NFX 44-011).

Maximum airflow: Nominal airflow.

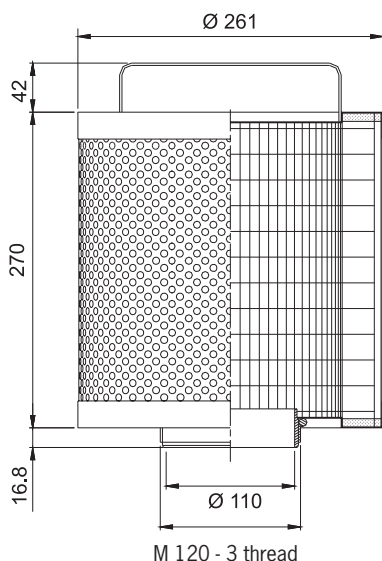
Temperature: 120° C maximum in continuous service and 200°C for 1 hour.

Control: Leak detection 100% of products.

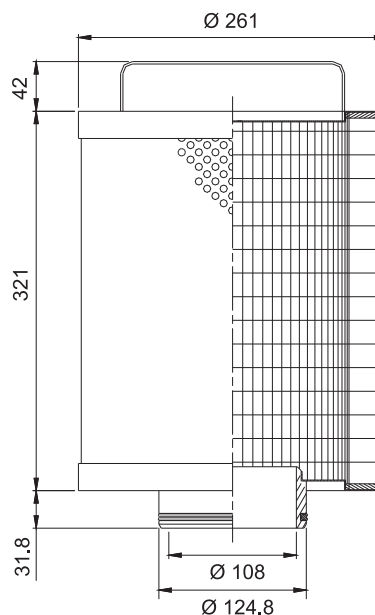
Mounting systems: Stainless steel casing.

Model Name	Dimensions (ØxH) mm	Uranine efficiency	Uranine FR	Area m ²	Airflow / P m ³ /h / Pa	Thread gasket	Casing	Sealant	Gasket	Weight kg	Volume m ³
300 m3/h screw filter	261x328.8	At 300 m ³ /h >99.98%	At 300 m ³ /h FR > 5000	4	300 / 290 200 / 180 150 / 135	M 120 3 thread	Zinc-bi. plated steel sheet	Polyurethane	1 Viton R54 O-ring	3,7	0,023
300 m3/h interlock filter	261x394.8	At 300 m ³ /h >99.98%	At 300 m ³ /h FR > 5000	4,75	300 / 275 200 / 170 150 / 120		Zinc-bi. plated steel sheet	Polyurethane	2 Viton O-rings Ø 118.5	3,7	0,027

Ref. 3211.91.00

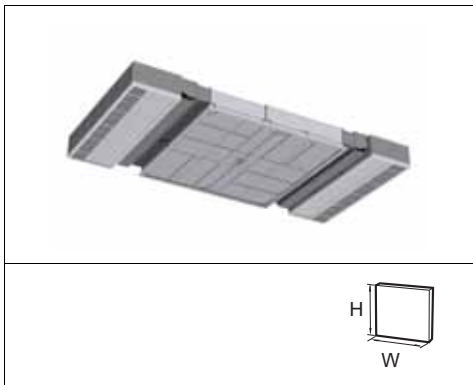


Ref. 3211.91.01



CamHosp

CamHosp-R: Operating theatre recirculation air ceiling



Advantages

- Low noise
- Compact design
- Low energy consumption design
- Easy installation
- Safety mounting
- Easy maintenance
- Recirculation units incl.
- Flexibility/evolutivity of OT

Application: Ultra Clean ventilation ceiling for operating theatre

Type: Modular ceiling unidirectional airflow for operating theatres including air recirculation units

Construction: Modules factory made to be assemble on site

Air modules (recirc units): 6 modules (example : based on Type 4)

- power supply : 6x230 V / 50Hz / 16 A- installed power : 6x1140 W / 6x6,4 A

- absorbed power : 0,25 m/s: 1020 W* (6x170 W) - 0,32 m/s: 1332 W* (6x222 W)

- thermal load: 0,25 m/s: 255 W* - 0,32 m/s: 333W*

* values with 2400 m3/h fresh air supply

Prefilter for air modules: Opakfil Energy, CityCarb/CitySorb etc.

Noise level: 0,25m/s: <45dB(A) - 0,32 m/s: <48dB(A)

Assembling: The modules are bolted together on site and airtightness is achieved by individual gaskets between the modules

Protection: Plenum Epoxy painted RAL9010, inside and outside. The air modules are epoxy painted on the room side and all non painted areas are galvanised

Test port: 1 room side, for pressure and EMERY/DEHS test sampling according to ISO EN 14644-3

Filter mounting: Filter access from room side, quick clamping device, Gel seal

Housing airtightness at 450Pa: Class B NF EN 1886:1998 - Class L1 (M) PR EN 1886:2003 - Class C PR EN 12237:2003

Gasket seal airtightness at 450Pa: Max local penetration less than10-4 (0.01 %) according to ISO EN 14644-3

Operating light path: 2 possibilities : a) cover plates - b) add.filter installation

Air diffuser: Screentek in 2 parts

Installation: Suspended by hangers to fix into peripheral perforated pads

Options: Air flow guides, lighting system

Remarks: Complies with health care standards DIN 1946, NFS 90351 etc

INSTALLATION BY CAMFIL SPECIALISTS **MANDATORY**

Model Name	Size (WxHxD) mm	Flow size (WxH) mm	OP Area m ²	No. of filters	No. Of fans	Filter class	Airflow at		Fresh air supply
							0,25m/s	0,3m/s	
CamHosp-R - Type 2	5010x2580x450	2400x1800	4.3		4		3900	5000	1500-2400
MG14-G10-GEL*	873x564x115			6		H14			
MG14-G10-GEL*	561x545x115			2		H14			
CamHosp-R - Type 3	5615x3040x450	2500x2500	6		4		5400	6920	1500-2400
MG14-G10-GEL*	873x564x115			8		H14			
MG14-G10-GEL*	873x545x115			2		H14			
CamHosp-R - Type 4	6250x3200x450	3200x3200	9		6		8100	10400	1500-2400
MG14-S-G10-GEL*	1182x564x115			12		H14			
CamHosp-R - Type 4.5	4250x6250x450	4250x3200	12		8		11200	14400	1500-2400
MG14-G10-GEL*	1182x564x115			12		H14			
MG14-G10-GEL*	1182x471x115			4		H14			
MG14-G10-GEL*	465x545x115			2		H14			

* Filter MEGALAM not included, to be ordered separately

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamHosp 2

Safer and more reliable assembly process Immediate and lasting air tight joints.



1 Reliable design

Each module is assembled and sealed in the factory. The airtight framework is made of welded 2 mm steel.

2 Permanently airtight

No structures pass through the plenum area. The hangers and accessories are fixed to external welded mounting plates.

3 Easily cleaned and decontaminated

In order to allow the ceiling to be cleaned easily and effectively, it has been designed specifically with a completely separate plenum area. The finishing cover has an oven-baked, white, RAL 9010 epoxy coating with the necessary chemical and mechanical resistance to the cleaning products and disinfectants used in hospitals.

4 Secure assembly

The joints between the modules are pre-cut and clamped together to ensure that they are airtight. The clamping mechanism has a compression limiter with stops.

5 No risk of leakage into the operating theatre

The framework consists of a continuously welded one-piece structure. No components pass through the joints. Permanently airtight structure. The system is guaranteed to be airtight. The leakage rate is <0.01% at 450 Pa in accordance with ISO EN 14644-3.

6 Rapid and totally secure assembly of the HEPA filters

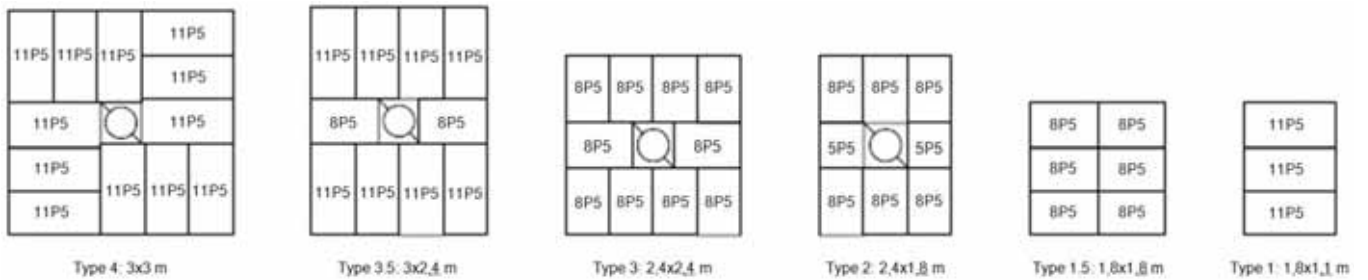
Captive, pre-positioned, pivoting tabs. The Camfil clamping mechanism with a compression limiter ensures that the joints are correctly compressed.

7 Hygienic

The HEPA filters are effectively protected by removable Screenshot screens in individual clip-on frames (see above).

8 Accessories

Option of fitting an airflow guide.

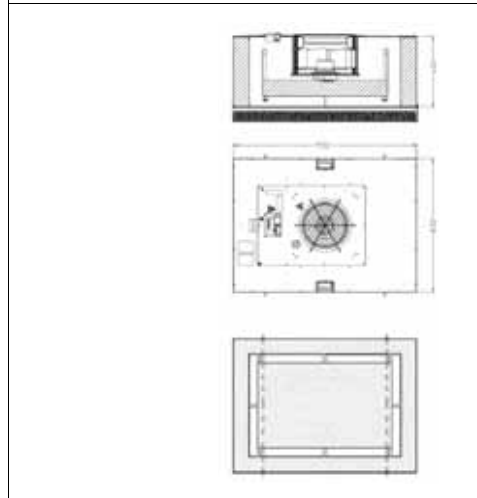
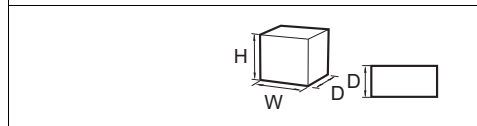


Model Name	Int. size (LxWxH) mm	Int. (m ²)	Airflow m ³ /h at			No. of modules	No. of Megalam MD14			Packaging	
			0.25 m/s	0.30 m/s	0.45 m/s		560x560	560x860	560x1165	kg	m ³
Type 1	1815x1150x400	1.6	1760	2114	3171	1			3	35	0.66
Type 1.5	1815x1810x400	3.3	2340	2807	4210	2		6		68	1.32
Type 2	1815x2419x400	4.4	3170	3800	5700	2+2	2	6		90	1.76
Type 3	2422x2419x450	5.9	4350	5200	7800	4+2		10		125	2.64
Type 3.5	3029x2422x450	7.3	5560	6780	10000	4+2		2	8	150	3.30
Type 4	3027x3027x450	9.2	7050	8460	12700	4			12	150	4.12



Fan filter unit

CamFFU High Performance HP-EC



Advantages

- Individual control
- Low power consumption
- Lowest sound power level
- EC Fan with high reserve capacity for pre- and AMC filtration

Application: Flexible and economical modular solution to equip clean rooms in turbulent or 100% unidirectional airflow, from ISO 8 to ISO 1.

Type: Self contained ceiling fan filter unit with high performance EC motor.

Construction: Aluminum housing, powder coated steel on request.

Fan: Efficient EC motor with backwards-curved blades.

Airflow control: BUS controlled system or handheld control.

Filter: Megalam H14, U15 or U16, MD, MX or MG with dry PU gasket to be ordered separately.

Installation: Installation in Camfil Farr CamGRID-FFU ceiling or equivalent systems.

EC Motor technical data:

Voltage: 200 - 277 V

Frequency: 50/60 Hz

Nominal current: 1,8 - 1,3 A

Max. rotation speed: 300 - 1300 rpm

Nominal power: 370 W

Operating temperature limits: 0 - 40°C

Model Name	Type	Dimensions AxBxC mm	Weight* kg	Airflow m ³ /h	Air velocity m/s	Pressure drop Pa	Max. external dP	Power consumption W	Sound power level	Sound power level at 25%, 50%, 100% clean room coverage [dB (A)**]
CamFFU HP-EC	12P6	1132 x 532 x 440	25	770 1160	0,3 0,5	80 120	400 375	46 89	41 47	43, 46, 50 49, 52, 55
CamFFU HP-EC	12P9	1132 x 832 x 440	39	1150 1730	0,3 0,5	80 120	355 295	68 142	42 49	42, 45, 48 49, 52, 56
CamFFU HP-EC	12P12	1132 x 1132 x 440	45	1500 2330	0,3 0,5	80 120	350 235	83 195	44 52	44, 47, 50 52, 55, 58

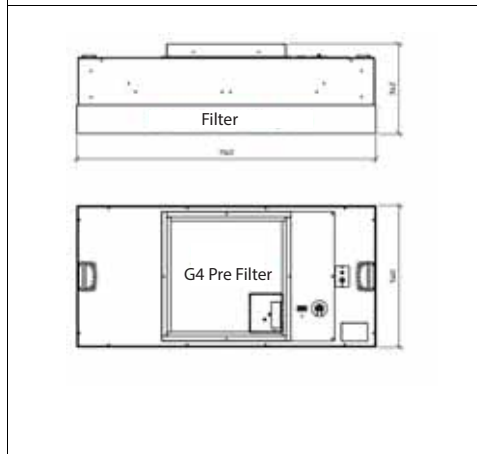
* Without filter.

** With Camfil Megalam H14 filter cell / without pre-filter, AMC filter.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Fan filter unit

CamFFU Compact Solution CS-EC simple control onboard



Advantages

- Simple direct speed control
- Low power consumption
- Low sound power level
- EC Fan with high reserve capacity for pre- and AMC filtration
- Very low design height

Application: Flexible and economical modular solution to equip turbulent clean rooms from ISO 8 to ISO 1 with very low space above the false ceiling

Type: Self contained ceiling fan filter unit with high performance EC motor.

Construction: Aluminum housing, powder coated steel on request.

Fan: Efficient EC motor with backwards-curved blades.

Airflow control: Simple speed control by the means of an integrated 0-10V rotary potentiometer.

Filter: Megalam H14, U15 or U16, MD, MX or MG with dry PU gasket to be ordered separately.

Installation: Installation in Camfil CamGRID-FFU ceiling or equivalent systems.

EC Motor technical data:

Voltage: 230 V

Frequency: 50 Hz

Nominal current: 1,7 A

Max. rotation speed: 1500 rpm

Nominal power: 370 W

Operating temperature limits: 0 - 40°C

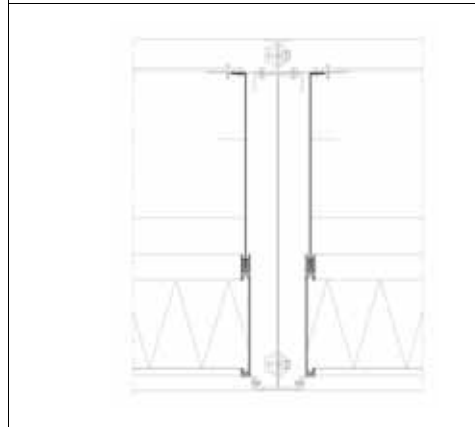
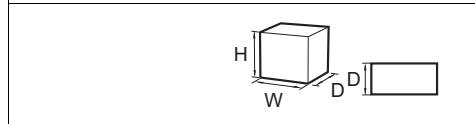
Model Name	Type	Dimensions AxBxC mm	Weight* kg	Airflow m ³ /h	Air velocity m/s	Pressure drop Pa	Max. external dP	Power consumption W	Sound power level	Sound power level at 25%, 50%, 100% clean room coverage [dB (A)**]
CamFFU CSEC_sco	12P6	1135 x 535 x 342	21	770 1160	0,3 0,5	80 120	305 230	67 162	60 66	62, 65, 68 68, 71, 74

* Without filter.

** With Camfil Megalam H14 filter cell / without pre-filter, AMC filter.

Fan filter unit

CamFFU Integrated Solution IS-EC



Advantages

- Individual control
- Low power consumption
- Very rigid construction
- EC Fan with high reserve capacity for pre- and AMC filtration

Application: Units can be screwed together to form individual cleanroom ceilings e.g. for machine enclosures, clean work cabins or minienvironments from ISO 14644 class 8.0 to ISO 1.0.

Type: Self contained ceiling fan filter unit with high performance EC motor.

Construction: Powder coated steel or stainless steel housing.

Fan: Efficient EC motor with backwards-curved blades.

Airflow control: BUS controlled system or handheld control. Also available as CamFFU_IS-EC_sce for easy 0-10V potentiometer control.

Filter: Megalam H14, U15 or U16, MD or MX with Camfil Sil-Gel gasket to be ordered separately

Installation: System can span up to 4800 mm x 4800 mm or supported by pedestals.

EC Motor technical data:

Voltage: 200 - 277 V

Frequency: 50/60 Hz

Nominal current: 1,8 - 1,3 A

Max. rotation speed: 300 - 1300 rpm

Nominal power: 370 W

Operating temperature limits: 0 - 40°C

ModelName	Type	Dimensions AxBxC mm	Weight* kg	Airflow m3/h	Air velocity m/s	Pressure drop Pa	Max. external dP	Power consumption W	Sound power level	Sound power level at 25%, 50%, 100% clean room coverage [dB (A)**]
CamFFU IS-EC	12P6	1200 x 600 x 435	64	770	0,3	390	390	55	49	52, 58
				1160	0,5	350	120	110	56	59, 65
CamFFU IS-EC stainless	12P6	1200 x 600 x 435	67	770	0,3	390	390	55	49	52, 58
				1160	0,5	350	120	110	56	59, 65

* Without filter.
** With Camfil Megalam H14 filter cell / without pre-filter, AMC filter.

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Summary Air Purifiers, Dust collectors & Gas Turbine Filtration



Air Cleaners
CamCleaner 300
Page 134



Air Cleaners
CamCleaner 300 Concealed
Page 135



Air Cleaners
CamCleaner 800
Page 136



Air Cleaners
CamCleaner 2000
Page 137



Air Cleaners
CamCleaner 6000
Page 138



Air Cleaners
CITY M Air Purifier
Page 141



Panel filters for Gas Turbines
30/30 GT
Page 142



Panel filters for Gas Turbines
CamClose
Page 143



Bag filters for Gas Turbines
Cam-Flo XMGT
Page 144



Bag filters for Gas Turbines
Cam-Flo XLGT
Page 145



Bag filters for Gas Turbines
Cam-Flo GT X7
Page 146



Bag filters for Gas Turbines
CamGuard
Page 147



Bag filters for Gas Turbines
Hi-Cap GT
Page 148



Compact filters for Gas Turbines
CamGT 3V-600
Page 149



Compact filters for Gas Turbines
CamGT 4V-300
Page 150



Compact filters for Gas Turbines
CamGT Box Model Name
Green II
Page 151



Compact filters for Gas Turbines
Opakfil GT/GTX
Page 152



Compact filters for Gas Turbines
Turbopac
Page 153



Pulse filters for Gas Turbines
Campulse GTC
Page 154



Pulse filters for Gas Turbines
Campulse GTD
Page 155



Pulse filters for Gas Turbines
CamPulse GT Polytech HE
Page 156



Pulse filters for Gas Turbines
Campulse EF
Page 157



Pulse filters for Gas Turbines
Tenkay GTC/GTD/PolyTech HE
Page 158



Pulse filters for Gas Turbines
Campulse GTD
Page 159



Industrial Dust Extractors
Farr Gold Series®
Page 160



Industrial Dust Extractors
Farr Gold Series® Camtain®
Page 161



Industrial Dust Extractors
Zephyr III™ Portables
Page 162



Filter Cartridges
HemiPleat® Gold Cone®
Page 163



Filter Cartridges
HemiPleat® Retrofit Cartridge
for Competitor Collectors
Page 164



Filter Cartridges
DuraPleat DPJ 145
Page 166



Filter Cartridges
DuraPleat DPJ 156
Page 167



Filter Cartridges
DuraPleat DPJ 218
Page 168

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters,
Class E10 to U17

Molecular Filtration

Filter Frames and Housings

Air Cleaners

CamCleaner 300



Advantages

- Healthier employees
- Less cleaning
- Less asthma and allergy suffering
- Reduced environmental impact
- Less odour

Applications: Air purifier for all types of indoor environments, for example hospitals, hotels, offices, homes, schools, public environments and where high quality air purification is required.

Power supply: 200..240V

Filter: E11 and Molecular filter mat.

Installation: Floor or wall

Design: Stainless steel / white

Average air purification area: 35m²

Item no.	Item name	Dimensions (WxHxD) mm	Transport dimensions (WxHxD)mm	Weight kg	Filter included in standard version *
94000038	Stainless steel	280x665x210	285x670x215	11	E11/molecular mat
94000043	White	280x665x210	285x670x215	11	E11/molecular mat

* Other filter classes available on request

Exchange

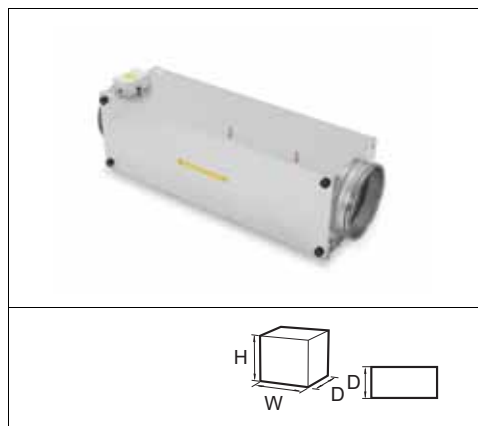
Item no.	Item name	Dimensions (BxHxD) mm	Filter class compliant with EN1822	Number of filters per air purifier	Comments
	Main filter	PL50EAL (280x195x77-00)	E11	2	Standard
	Molecular mat	KFM (253x175x20)	Molecular	1	Standard
94000015	UK plug 230V				

* Other filter classes available on request

Setting	Air flow m ³ /h	Energy consumption/W	Noise level dBA	System efficiency 0,3-0,4µm (%)
1	82	42	31	>95
2	119	49	35	>95
3	280	82	41	>95

Air Cleaners

CamCleaner 300 Concealed



Advantages

- Healthier employees
- Less cleaning
- Lower energy costs
- Reduced environmental impact
- Clean products, fewer operational disruptions
- Easy to adapt ducts and diffusers
- Less odour

Applications: Air purifier for all types of indoor environments, for example hospitals, hotels, offices, homes, schools, public environments and where high quality air purification is required.

Nominal voltage range: 200..240V

Filter: F7 and E11

Duct Connection: 2 pc Ø250mm

Capacity: 316 m³/h

Installation: Wall or ceiling (built in)

Design: Galvanized sheet steel

Average air purification area: 35m²

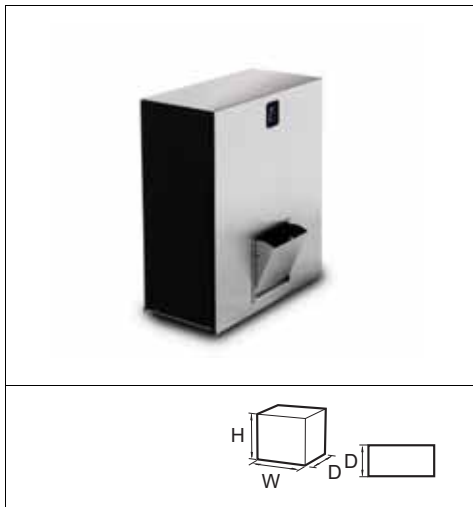
Item no.	Model Name	Dimensions (WxHxD) mm	Weight kg	Air volume m ³ /h	Initial pressure drop Pa	Air purification area m ²	Power output W	Filter included in standard version *
94000011	CamCleaner 300 Concealed	1052X316X364	21,4	316	137	max 100	28	F7 + E11

Upgrades / Accessories / Exchange

Art. Nr	Description
Upgrades	
94000012	Upgrade with standard MiniCarb and 97mm Ecopleat
94000013	Upgrade with MiniCarb for Formaldehyde and 97mm Ecopleat
94000014	Upgrade to H13
Accessories	
94000015	UK plug 230V
Exchange	
	HI-FLO XLT 7 D50+ HFGX-F7-287/287/370-5-25
	MICRETAIN TRE 11-287X287X292-01
	ECOPLEAT ECO 3GPF 287X287X97-M5
	MEGAFLO MFE 13-287X287X292-01/10
	MINICARB MINICARB/CEX003/A1 d=90/80 mm L=250
	MINICARB MINICARB/CEX004/J2 d=90/80 mm L=250

Air Cleaners

CamCleaner 800



Advantages

- Healthier employees
- Less cleaning
- Less asthma and allergy suffering
- Reduced environmental impact
- Less odour

Applications: Air purifier for all types of indoor environments, for example offices, homes, schools, public environments and where high quality air purification is required.

Power supply: 200..240V

Filter: E11 and Molecular filter mat.

Installation: Mobile or stationary.

Design: Stainless steel / White

Average air purification area: 120m²

Item no.	Item name	Dimensions WxHxD mm	Transport dimensions (WxHxD) mm	Weight kg	Filter included in standard versions*
94000022	CamCleaner 800 Stainless steel	550x638x263	655x665x365	20	E11/molecular mat
94000042	CamCleaner 800 White	550x638x263	655x665x365	20	E11/molecular mat

* Other filter classes available on request

Upgrades/Accessories/Exchange

Item no.	Item name	Filter class compliant with EN1822	Number per air purifier	Comments
Upgrades				
94000023	Hepa 13 (Includes 2 pcs H13 filter)	H13	2	
Accessories				
94000024	Molecular box with 3 pcs Camcarb Green-R 2600	VOC	1	
94000025	Suction side (outdoor connection)		1	
94000015	UK plug 230V, UK 50Hz		1	
94000034	Wheel plate		2	
94000032	Pre-filter mats		2	
Exchanges				
	Main filter Micretain MXEM 11-252x610x150-00	E11	2	Standard
	Main filter Absolute MXE 13-252X610X150-00	H13	2	
	Molecular filter mat KFM (575x245x25)		1	Standard
	CamCarb Green-R 2600	VOC	3	

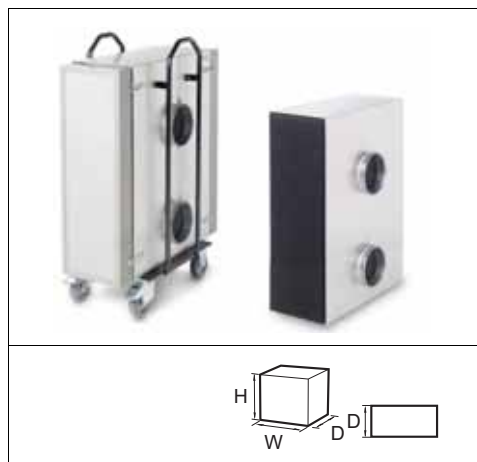
* Other filter classes available on request

Operating specifications

Setting	Air flow m ³ /h	Energy consumption /W	Noise level dBA	System efficiency 0,3-0,4µm (%)
1	180	5	30	>95
2	250	6	33	>95
3	300	7	34	>95
4	347	8	35	>95
5	520	40	46	>95
6	720	124	56	>95

Air Cleaners

CamCleaner 2000



Advantages

- Healthier employees
- Less cleaning
- Eliminates tobacco smoke, weld smoke, construction dust, asbestos and particles of all sizes down to ultrafine.
- Reduced environmental impact
- Clean products, fewer operational disruptions
- Lower energy costs

Applications: Air purifier for dusty environments and indoor premises such as warehouses, pharmaceutical facilities, food factories, heavy industry, paper mills, welding workshops, construction sites, laundries, timber facilities, bakeries, packaging production, printing facilities, stables, processing industry and supermarkets. Also suitable in connection with construction, demolition and coating operations.

Power supply: 200..240V

Filter: F7, E11

Connection: 2 standard spacers, diam. 160 mm

Installation: Mobile, stationary, on wall or floor

Please note: Molecular filtration option is available

Design: Stainless steel Body

Average Air purification area: 300m²

Item no.	Model Name	Dimensions (WxHxD) mm	Weight kg, including filter	Filter included in standard version *	Number of filters per airpurifier
94000018	CamCleaner 2000 Handle	702x987x373	43	F7/E11	2 Pre + 2 Main
94000019	CamCleaner 2000 Basic	550x783x302	32	G4/E11	2 Pre + 2 Main

* Other filter classes available on request

Upgrades/Accessories/Exchange

Item no.	Item Name	Filter class compliant with EN1822 / EN779:2012	Numbers per air purifier	Comments
Upgrades				
94000020	Extension frame with 1 pc Hepa H13 on supply side	H13	1	
94000028	Hepa 13 (includes 2 pcs H13 filter)	H13	2	
Accessories				
94000021	Molecular box with 6 pcs CamCarb Green-R 2600	VOC	1	
94000029	Suction side		2	
94000015	UK plug 230V, UK 50Hz			
94000031	Pre Filter		2	
94000034	Wheel plate		2	
Exchange				
	Prefilter Ecopleat G 3GPF (753x250x90-F7)	F7	2	Standard
	Main filter Micretain MXEM E11 (250x750x150-00)	E11	2	Standard
	Main filter Absolute MXE H13 (250x750x150-00)	H13	2	
	Absolute MXE H13 for extension frame on supply side 390x750x250	H13	1	
	CamCarb Green-R 2600	VOC	6	

* Other filter classes available on request

Air flow m ³ /h	Energy consumption/W	Noise level dBA	System efficiency 0,3-0,4µm (%)
0-1400	0-302	0-68	>95

Air Cleaners

CamCleaner 6000



Advantages

- Healthier employees
- Less cleaning
- Eliminates tobacco smoke, weld smoke, construction dust, asbestos and particles of all sizes down to ultrafine.
- Lower energy costs
- Reduced environmental impact
- Clean products, fewer operational disruptions
- Reduces the average temperature in rooms with high ceilings

Applications: Air purifier for dusty environments and large indoor premises such pharmaceutical facilities, food factories, heavy industry, paper mills, welding workshops, timber facilities, bakeries, packaging production, printing facilities, stables, processing industry, supermarkets and other specialist applications such as upgrading of clean room environments and other classified assembly environments.

Power supply: 3-phase 380-480V or 1-phase 230V

Filter: F7, E11-H13

Fan: EC fan with adjustable airflow and ModBus connection.

Capacity: 0 - 6000 m³/h

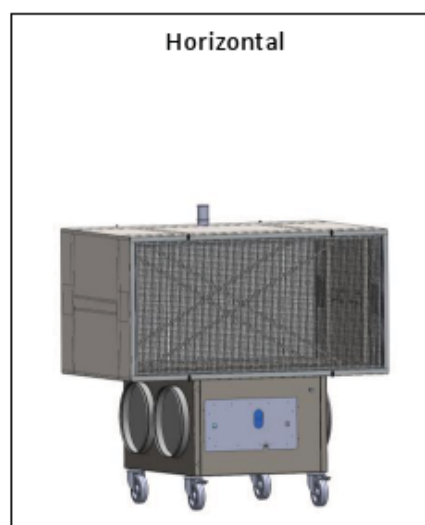
Connection: 4 standard round (diameter 315mm) or 2 standard round (diameter 315mm) and 2 round (diameter 250mm) with sound reduction

Installation: Floor, wall or ceiling mounting (with wire or suspension arms).

Weight kg: 130,5 including filters



Item no.	Model Name	Model	Dimensions (WxHxD) mm	Filter class compliant with EN1822 / EN779:2012	Number of filters per air purifier
94000001	CamCleaner 6000 230V, 1 phase	Vertical	798x1968x820	F7-E11	4 Pre + 2 Main
94000002	CamCleaner 6000 380-400V, 3 phase	Vertical	798x1968x820	F7-E11	4 Pre + 2 Main
94000003	CamCleaner 6000 230V, 1 phase	Horizontal	1262x1359x829	F7-E11	4 Pre + 2 Main
94000004	CamCleaner 6000 380-400V, 3 phase	Horizontal	1262x1359x829	F7-E11	4 Pre + 2 Main

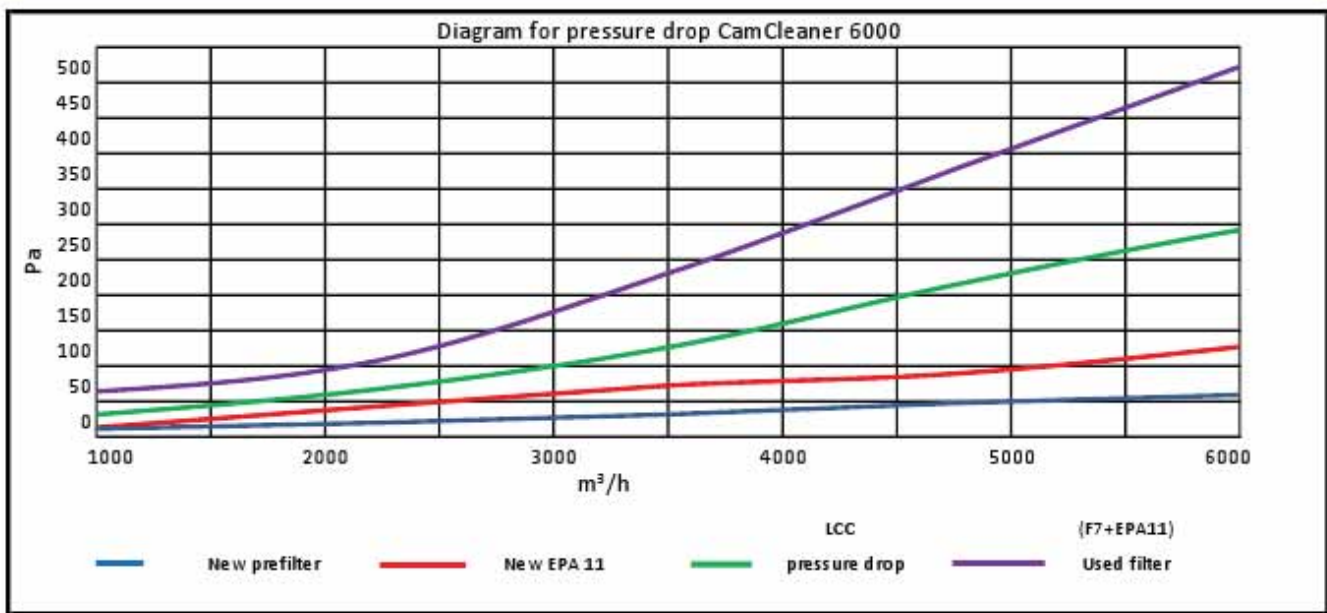


Horizontal or Vertical

Air Cleaners

Technical information and pressuredrop

Airflow m ³ /h	Energy Consumption		dB(A)	m ²	System efficiency(%) Particles 0,3-0,5µm
	SFP	W/(m ³ /h)			
3000	150W	0,05	52,3	750	99,21
4000	312W	0,08	55,5	1000	98,93
5000	556W	0,11	62	1250	98,89
6000	887W	0,15	67	1500	98,67



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Camfil information

Pre-Filtration
Class G2 to G4

Bag and Compact Filters,
Class M5 to F9

HEPA / ULPA Filters
Class E10 to U17

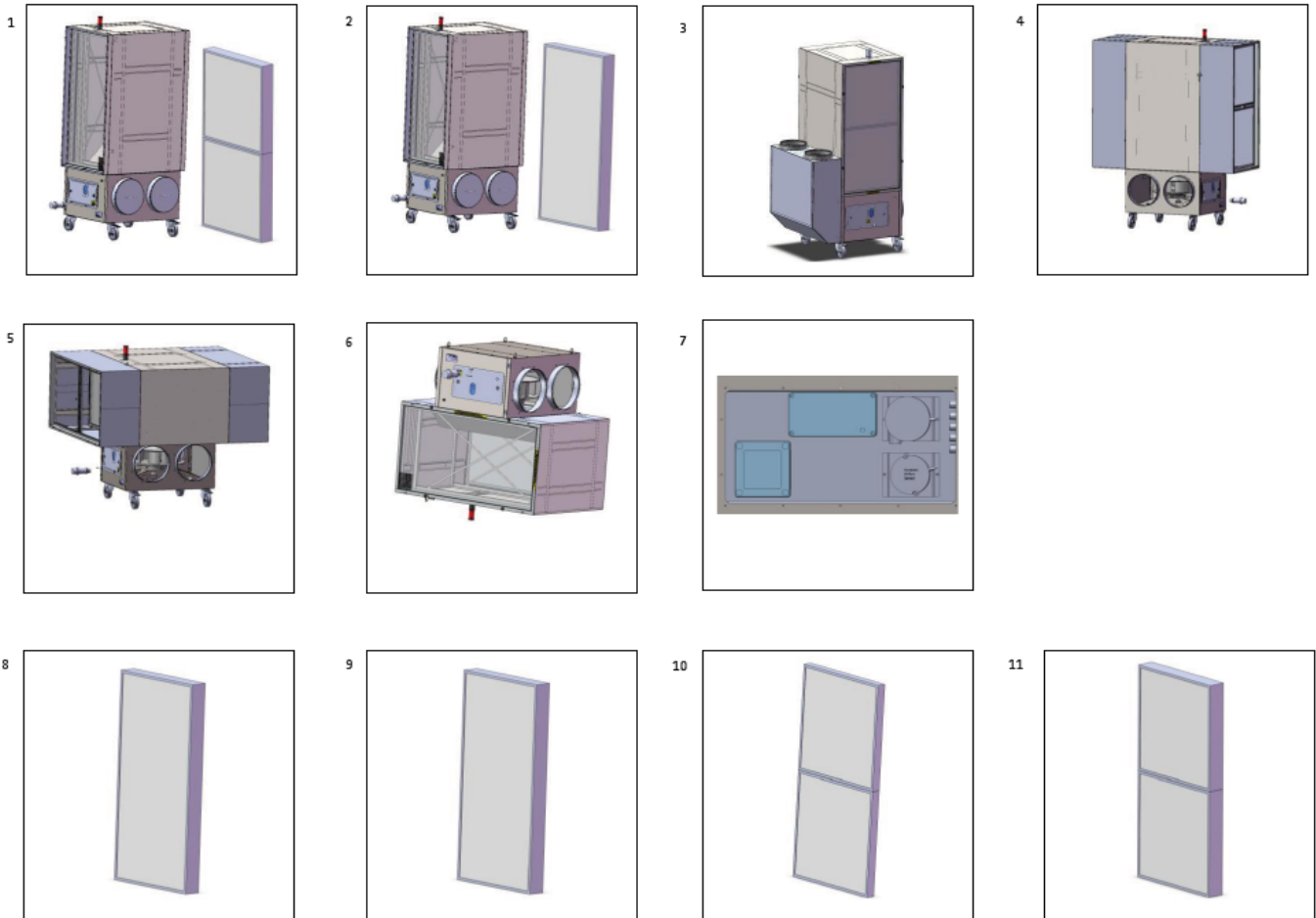
Molecular Filtration

Filter Frames and Housings

Air Cleaners

Upgrades /Accessories / Exchange

Art. Nr	Item number	Item Name
Upgrades		
94000008	1	Upgrade prefilter to 97mm Ecopleat
94000009	2	Upgrade mainfilter to Hepa 13
Accessories		
94000005	3	Silencer (only for vertical model)
94000010	4-5	Ext. frame for Bagfilter/Citycarb/City-Flo size 592/592/ max 370-10-25 (delivered without filter)
94000006	6	Eyelets for ceiling mounting (Horizontal)
94000007	7	Constant airflow sensor
94000015		UK Plug (1 Phase)
94000016		UK Plug (3 phase)
94000026	1	Extension frame 97mm (Without filter)
94000027	5	Extension frame bag filter (Without filter)
94000035	4	Molecular box for 2X32 pcs CamCarb Green-R 1300 (Without molecular filter)
Exchange		
	8	MGM 11-1220X610X100-01
	9	MGM 13-1220X610X100-01/10
	10	Ecopleat F7-610X610X50mm
	11	Ecopleat F7-610X610X97mm
		CamCarb Green-R 1300
Other filter selection		
		Bagfilter XLT F7 592X592-max 380mm
		CityCarb OPKCC-242412-M6-01PU 592x592x292
		City-Flo HFZS-F7-592/592/380-10-25



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Air Cleaners

CITY M Air Purifier



Advantages

- Healthier employees
- Less cleaning
- Less asthma and allergy suffering
- Reduced environmental impact
- Less odour

Applications: Air purifier for all types of indoor environments, for example hospitals, hotels, offices, homes, schools, public environments and where high quality air purification is required.

Power supply: 200 .. 240 V

Filter: H13/Molecular

Installation: Floor

Design: Multiple colour

Average Air purification area: 75m²

Item no.	Model Name	Dimensions (WxHxDmm/Weight Kg)	Transport Dimensions (WxHxDmm/Weight Kg)	Filter included in standard version
94000047	CamCleaner CITY M (WHITE)	329x703x338/15	395x790x395/17	H13/Molecular
94000048	CamCleaner CITY M (BLACK)	329x703x338/15	395x790x395/17	H13/Molecular

Exchange/Accessories

Item no.	Type	Filter class compliant with EN1822	Number of filters per air purifier	Comments
94000050	H13/Molecular	H13/Molecular	2	Standard
94000015	UK plug 230V			

Operating specifications

Setting	Air flow m ³ /h	Energy consumption/W	Noise level dBA	System efficiency 0,3-0,4µm (%)
1	37	4	16	>99
2	67	5	16	>99
3	94	6	16	>99
4	127	7	22	>99
5	251	19	38	>99
6	433	55	53	>99

Panel filters for Gas Turbines

30/30 GT



Advantages

- High mechanical strength
- Rigid, reinforced water resistant cardboard frame
- Large media surface
- Unique radial pleat design
- Bonded into case to eliminate air bypass
- Compact

Application: Suitable for most areas.

Type: Panel filter.

Media: Cotton / Synthetic.

Frame: Rigid water resistant card board.

EN779:2012 efficiency: G4.

ASHRAE 52.2.2007 filter class: MERV 8.

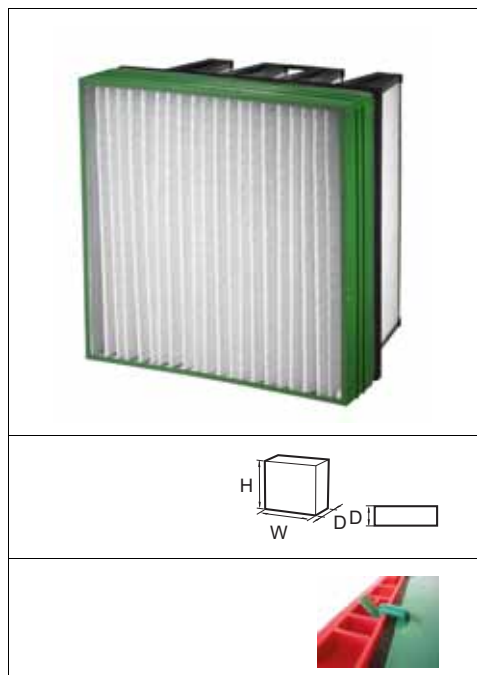
Recommended final pressure drop: 250 Pa / 1.0"wg.

Temperature: 70° C / 158° F max. operating temperature.

Additional information: Different clips available for mounting combinations with other filters.

Model Name	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg
30/30 GT	G4	592	592	95	3400	68	2,5	0,04	0,5

CamClose



Advantages

- New improved clip design
- Optimal coalescing performance
- Pre-filter for extended service intervals
- Downstream pleat separators
- Can be fitted directly to a final filter
- High strength ABS frame

Application: For humid conditions, ideal for tropical or coastal installations.

Type: Panel filter.

Frame: Injection moulded plastic with integrated clip-on design.

Media: Synthetic, wire backed (G4) or Pleated glass fiber (M6).

EN779:2012 efficiency: G4, M6.

ASHRAE 52.2.2007 filter class: MERV 7, MERV 11/12.

Recommended final pressure drop: 400 Pa / 1.6"wg.

Temperature: 70° C / 158° F max. operating temperature.

Additional information: External dimensions 598x604x129 exl. gasket.

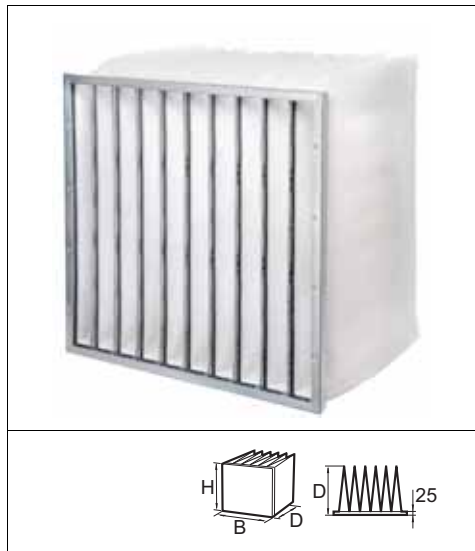


Model	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg
Compact	G4	592	592	96	3400	50	2,6	0,06	2,5
Standard	G4	592	592	129	3400	50	2,6	0,06	2,5
Standard	M6	592	592	129	3400	78	13,0	0,06	4,3

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag filters for Gas Turbines

Cam-Flo XMGT



Advantages

- Non discharging synthetic media
- Maximum surface use
- High mechanical strength
- Incinerable bags
- High dust holding capacity= long life
- Recommended choice for pre-filtration

Application: Installations exposed to turbulence and harsh environments.

Type: Bag filter

Frame: Galvanized steel

Media: Synthetic fiber

EN779:2012 filter class: M6, F7, F9

ASHRAE 52.2.2007 filter class: MERV 12, 13, 15

Recommended final pressure drop: 450 Pa / 1.8"wg.

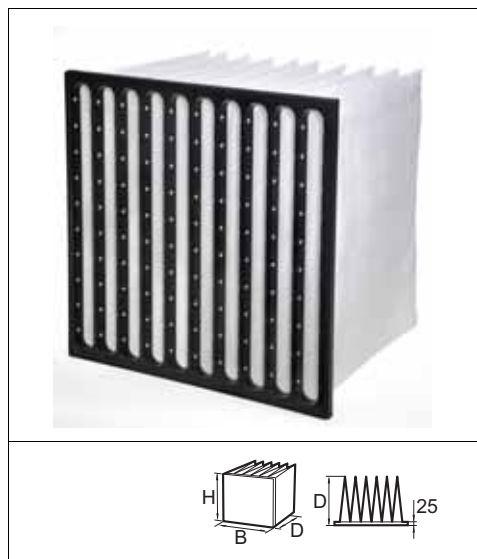
Temperature: 70° C/ 160° F max.operating temperature.



Model Name	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Number of pockets	Media area m²	Volume m³	Weight kg	Initial eff. %	ME %*
XMGT	M6	592	592	640	4250	92	10	7,5	0,06	3,00	26,0	21,0
XMGT	F7	592	592	640	4250	103	10	7,5	0,06	3,00	60,0	58,0
XMGT	F9	592	592	640	4250	196	10	7,5	0,06	3,00	72,0	71,0

* ME%: Minimum efficiency ref. to EN779:2012

Cam-Flo XLGT



Advantages

- Non discharging synthetic media
- Maximum surface use
- High mechanical strength
- Incinerable bags
- High dust holding capacity = Long life
- Recommended choice for pre-filtration

Application: Installations exposed to turbulence and harsh environments.

TypeType: Bag filter.

Frame: Plastic.

Media: Synthetic multi layer media.

Gasket: Continous PU or Neoprene.

EN779:2012 efficiency: M6

ASHRAE 52.2.2007 filter class: Eq. to MERV 12

Recommended final pressure drop: 450 Pa / 1.8"wg.

Temperature: 70° C / 158° F max. operating temperature.



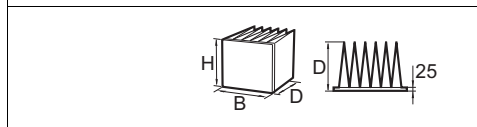
Model	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Number of pockets	Media area m²	Volume m³	Weight kg	Initial eff. %	ME %*
XLGT	M6	592	592	640	4250	92	10	7,5	0,06	3,00	26	21,0

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag filters for Gas Turbines

Cam-Flo GT X7



Advantages

- Non discharging synthetic media
- Maximum surface use
- High mechanical strength
- Incinerable bags
- High dust holding capacity
- Designed for high velocity applications
- Solid frame in stainless steel

Application: High velocity applications 5500-7200m³/h.

Type: Bag filter.

Media: Synthetic.

Frame: Stainless steel EN1.4016 / AISI 430 Galvanized steel.

Header: 25 mm.

EN779:2012 efficiency: F7@4250 m³/h, M6@7200 m³/h.

ASHRAE 52.2.2007 filter class: MERV 14.

Recommended final pressure drop: 875 Pa / 3.5"wg.

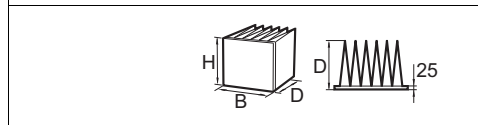
Temperature: 70° C / 158° F max. operating temperature.

Other information: Other sizes and variants on request.

Model	Filterclass	Width	Height	Depth	Air Flow m ³ /h	Pressure drop	Number of pockets	Media area m ²	Volume m ³	Weight kg	Initialeff.%	ME %*
GT X7	F7	618	577	600	4250	103	10	7,2	0,90	5,5	52	45,0

* ME%: Minimum efficiency ref. to EN779:2012

CamGuard



Advantages

- Allows on-line filter replacement
- Extends filter life
- Reduced overall TCO
- Solid frame in stainless steel

Application: High velocity air inlet systems. Typical coastal and offshore environments.

Type: Bag filter.

Frame: Stainless steel EN1.4301 / AISI 304.

Header: 20 mm

Media: Synthetic.

EN779:2012 efficiency: G4.

ASHRAE 52.2.2007 filter class: MERV 7.

Temperature: 70° C / 158° F max. operating temperature.

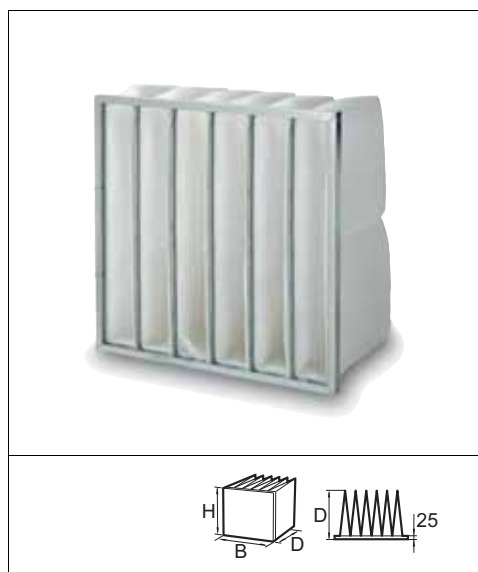
Other information: Designed for use in combination with Cam-Flo GT X7

Width	Height	Depth	Media Area m ²
618	577	630	1,7

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Bag filters for Gas Turbines

Hi-Cap GT



Advantages

- High dust holding capacity
- Resistant media
- Tapered pockets
- Low pressure drop
- Incinerable bags

Application: Installations exposed to turbulence and/or recurrent high humidity.

Type: Bag filter.

Frame: Injection moulded plastic (XLS & XLT) or Galvanized steel (HC-66).

Media: Synthetic.

Gasket: Continuous PU or Neoprene.

EN779:2012 efficiency: G4.

ASHRAE 52.2.2007 filter class: MERV 7.

Recommended final pressure drop: 250 Pa / 1.0"wg.

Temperature: 70° C / 158° F max. operating temperature.

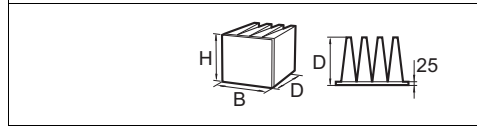


Model Name	Filter Class	Weight	Height	Depth	Air Flow m³/h	Pressure drop	Number of pockets	Media area m²	Volume m³	Weight kg
HC-66	G4	592	592	360	3400	40	6	2,7	0,060	1,7
XLT	G4	490	490	370	3400	35	8	2,9	0,060	1,2
XLS4	G4	592	592	370	3400	40	6	2,7	0,060	1,0
*G4	G4	592	592	195	3400	45	8	1,8	0,060	1,6
*XLS4	G4	592	592	520	3400	35	6	3,7	0,060	1,2
*G4	G4	592	592	580	3400	35	6	4,0	0,060	2,0

*Dimensions on request

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

CamGT 3V-600



Advantages

- Lowest air resistance (dP) for optimal economy
- Ensures water drainage
- High filtration efficiency
- Low air resistance also in wet conditions
- Solid HEPA frame eliminates air bypass
- Resistant to high and extreme pressure drops
- Designed for all environments
- Most reliable filter on the market

Application: All installations where safety/reliability is crucial in combination with low air resistance.

Type: Compact pleated filter.

Frame: Injection moulded plastic.

Header: 25 mm

Media: Glass fiber.

EN779:2012 efficiency: F8- F9.

EN1822:2009 efficiency: E10- E12, H13.

ASHRAE 52.2:1999 filter class: MERV 14-16.

Recommended final pressure drop: 600 Pa / 2.4"wg.

(Recommended final pressure drop for most economical change point is normally lower than 600 Pa).

Temperature: 70° C / 158° F max. operating temperature.

Burst strength: > 6 250 Pa continuous wet/soaked

Additional information: Reverse flow with metal support grid available on request.



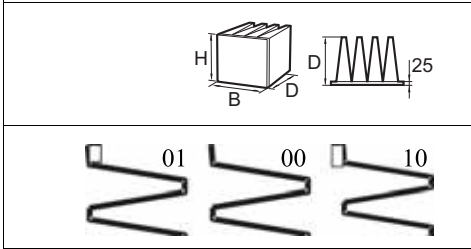
Model	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg	Initial eff. %	MPPS %	ME %*
Std	F8	592	592	600	4250	100	41	0,22	15	67		67
Std	F9	592	592	600	4250	115	38	0,22	15	82		82
Std	E10	592	592	600	4250	135	45	0,22	16		94,88	
Std	E11	592	592	600	4250	140	48	0,22	16		96,95	
Std	E12	592	592	600	4250	190	50	0,22	17		>99,5	
Std	H13	592	592	600	4250	240	50	0,22	17		>99,9	

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Compact filters for Gas Turbines

CamGT 4V-300



Advantages

- Ensures water drainage
- High filtration efficiency
- Low pressure drop also in wet conditions
- Resistant to turbulence and extreme pressure drop
- Easy mounting
- Meets the industry's latest and most stringent requirements
- Water resistant media

Application: All installations where safety/reliability is important.

Type: Compact pleated filter.

Frame: Injection moulded plastic.

Media: Pleated water resistant glass fiber media.

EN779:2012 efficiency: F7 - F9.

EN1822:2009 efficiency: E10 - E12, H13.

ASHRAE 52.2:1999 filter class: MERV 13-16.

Recommended final pressure drop: 600 Pa / 2.4"wg.

(Recommended final pressure drop for most economical change point is normally lower than 600 Pa).

Temperature: 70° C / 158° F max. operating temperature.

Fire rating: Also available with DIN4102 class b2 rating on request.

Burst strength: >6250 Pa in continuous operation.

Additional information: Also available in Reverse flow version, half size version and 3/4 size version on request

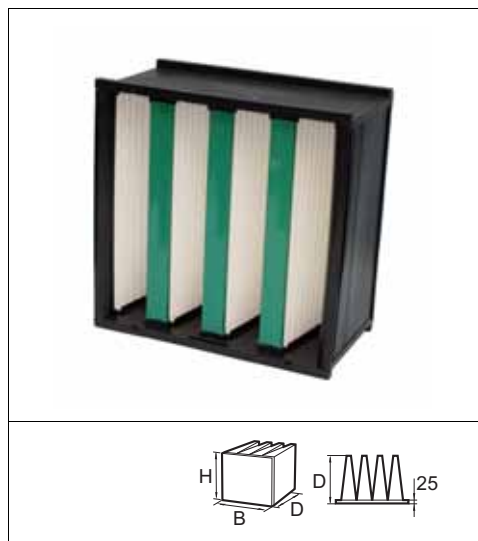
Model	Filter class	Width	Height	Depth	Air Flow m ³ /h	Pressure drop	Media area m ²	Volume m ³	Weight kg	Initial eff. %	MPPS %	ME %*
Std	F7	592	592	290	4250	120	19	0,11	8	55		55,0
XL	F7	592	592	290	4250	112	26	0,11	8,5	55		55,0
Std	F8	592	592	290	4250	130	19	0,11	8	70		70,0
XL	F8	592	592	290	4250	119	26	0,11	8,5	70		70,0
Std	F9	592	592	290	4250	163	19	0,11	8	81		81,0
XL	F9	592	592	290	4250	152	26	0,11	8,5	81		81,0
Std	E10	592	592	290	4250	196	29	0,11	8,5		93	
Std	E11	592	592	290	4250	215	29	0,11	8,5		95,3	
Std	E12	592	592	290	4250	300	30	0,11	9,0		99,5	
Std	H13	592	592	290	3400	290	30	0,11	9,0		99,95	

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Compact filters for Gas Turbines

CamGT Box Type Green II



Advantages

- Ensures water drainage
- High filtration efficiency
- Low pressure drop also in wet conditions
- Resistant to turbulence and high pressure drop
- Easy mounting
- Water resistant media

Application: All installations where safety/reliability is important.

Type: Compact pleated filter.

Frame: Injection moulded plastic.

Header: 25 mm.

Media: Pleated water resistant glass fiber media.

EN779:2012 efficiency: F7 - F9.

EN1822:2009 efficiency: E10

ASHRAE 52.2.2007 filter class: MERV 13 -16.

Recommended final pressure drop: 600 Pa / 2.4"wg.

Temperature: 70° C / 158° F max. operating temperature.

Additional information: Profile placed at 292 mm depth for clamping, i.e for fastener spring type C-80.



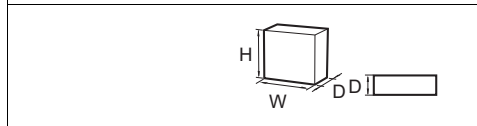
Model	Filter class	Width	Height	Depth**	Air Flow m ³ /h	Pressure drop	Media area m ²	Volume m ³	Weight kg	Initial eff. %	MPPS %	ME %*
Std	F7	592	592	315	4250	116	19	0,11	7,6	60		60
Std	F8	592	592	315	4250	141	19	0,11	7,6	72		72
Std	F9	592	592	315	4250	148	19	0,11	7,6	81		81
Std	E10	592	592	315	4250	214	19	0,11	7,6	88		88
XL	F7	592	592	315			22	0,11	7,6	60		60
XL	F8	592	592	315			22	0,11	7,6	72		72
XL	F9	592	592	315			22	0,11	7,6	81		81
XL	E10	592	592	315			22	0,11	7,6		88	

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Compact filters for Gas Turbines

Opakfil GT/GTX



Advantages

- Low pressure drop
- Large filter area
- Easy mounting
- 100% incinerable
- Heavy duty construction
- Aerodynamic construction

Application: For dry areas, where high humidity and hygroscopic dust are less occurring.

Type: Compact pleated filter.

Frame: Injection moulded plastic.

Header: GT header 25 mm, GTX 20 mm

Media: Pleated water repellent glass fiber media.

EN779:2012 efficiency: F7 - F9

EN1822:2009 efficiency: E10

ASHRAE 52.2.2007 filter class: MERV 13 - 16

Recommended final pressure drop: 450 Pa / 1.8 "wg

(Max. 600 Pa/2.4 "wg), suggested economical change Point 350 Pa

Temperature: 70° C / 158° F max. operating temperature

Additional information: Two versions available: Standard, with two nets on down side, Premium; with nets on down stream side

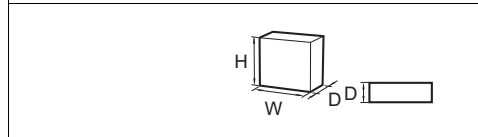


Model	Filter class	Width	Height	Depth	Air Flow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg	Initial eff. %	MPPS %	ME %*
GT	F7	592	592	292	4250	110	19	0,11	7,0	52		52,0
GT	F8	592	592	292	4250	114	19	0,11	7,0	59		58,0
GT	F9	592	592	292	4250	153	19	0,11	7,0	80		80,0
GT	E10	592	592	292	4250	230	19	0,11	7,0		87	
GTX	F7	592	592	315	4250	100	19	0,11	7,0	52		52,0
GTX	F8	592	592	315	4250	130	19	0,11	7,0	59		58,0
GTX	F9	592	592	315	4250	160	19	0,11	7,0	80		80,0
GTX	E10	592	592	315	4250	230	19	0,11	7,0		87	

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Turbopac



Advantages

- Flanges on one or both sides
- Media pack protected by face guards
- Rigid design
- Water repellent media
- High dust holding capacity = long life

Application: For most gas turbine applications.

Type: Compact pleated filter.

Frame: Galvanized steel.

Media: Water repellent glass fiber.

Construction: Deep pleated with aluminum separators.

EN779:2012 efficiency: M6, F8, F9.

ASHRAE 52.2.2007 filter class: MERV 12, 14, 15.

Recommended final pressure drop: 450 Pa / 1.8"wg.

Temperature: 70° C / 158° F max. operating temperature.

Model	Filter class	Width	Height	Depth	Air Flow m ³ /h	Pressure drop	Media area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
60 std	M6	592	592	292	4250	137	10,8	0,10	8,2	30	30
60 XL	M6	592	592	292			13,9	0,10	8,2	30	30
90 std	F8	592	592	292	4250	226	10,8	0,10	8,2	68	66
90 XL	F8	592	592	292			13,9	0,10	8,2	68	66
95 XL	F9	594	594	295			16,1	0,10	8,7	72	71

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Campulse GTC



Advantages

- Patented HemiPleat™ technology- proven open pleat solution
- New synthetic media
- Non discharging F9
- Water resistant media
- Improved dust release
- 2 in 1 package - saves space & money
- Optimal ability to handle daily fog and humidity
- Helicord design for efficient pulse cleaning

Application: For humid/dry/ heavy dust load areas.

Type: Single stage pulse cleaning cartridges.

End caps: Galvanized (standard), stainless steel (AISI304 / 316) or powder coated.

Media: Synthetic.

Liners: External helical cords and internal screen secure the filter element from movement without obstruction to the pulse.

Gasket: Seamless

EN779:2012 efficiency: F9.

ASHRAE 52.2.2007 filter class: MERV 16.

Other test information: Tested according to ARAMCO spec. 32-SAMSS-008.

Temperature: 71° C / 160° F max. operating temperature.

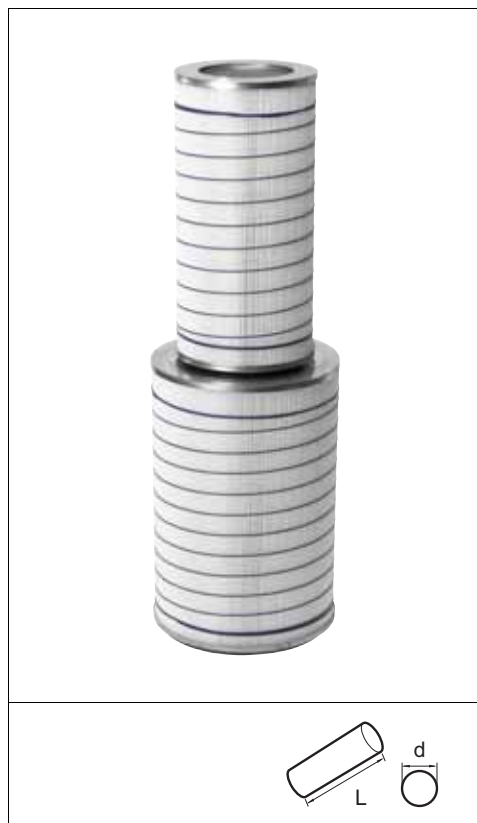
Additional information: Our recommended choice for one-stage self cleaning air intake systems. Also available in other sizes and/or in Tenkay version.



Model	Pleat	Length 1	Diameter 1	Length 2	Diameter 2	Filter class	AirFlow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg	Initial eff. %	ME %*
1.CyCy	HemiPleat	660	324	660	445	F9	2500	142	34,7	0,15	12,0	75	74,0
2.CoCy	HemiPleat	660	324	660	445	F9	2500	157	34,7	0,15	12,0	75	74,0

* ME%: Minimum efficiency ref. to EN779:2012
 1. CyCy = Large Cylindrical, Small cylindrical
 2. CoCY= Large Conical, Small Cylindrical

Campulse GTD



Advantages

- Patented HemiPleat™ technology- proven open pleat solution
- New synthetic media
- Non discharging F9
- Improved dust release
- Water resistant media
- 2 in 1 package - saves space & money
- Helicord design for efficient pulse cleaning

Application: For desert/dry/ heavy dust load areas.

Type: Single stage pulse cleaning cartridges.

End caps: Galvanized (standard), stainless steel (AISI304 / 316) or powder coated.

Media: Synthetic.

Liners: External helical cords and internal screen secure the filter element from movement without obstruction to the pulse.

Gasket: Seamless.

EN779:2012 efficiency: F9.

ASHRAE 52.2.2007 filter class: MERV 16.

Other test information: Tested according to ARAMCO spec. 32-SAMSS-008.

Temperature: 71° C / 160° F max. operating temperature.

Additional information: Available in other sizes on request, also available in Tenkay design.



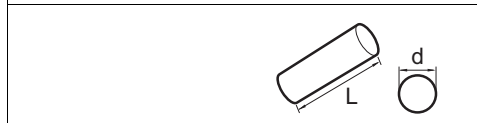
Model	Pleat	Filter class	Length 1	Diameter 1	Length 2	Diameter 2	AirFlow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg	Initial eff. %	ME %*
1.CyCy	HemiPleat	F9	660	324	660	445	2500	160	34,7	0,15	12,0	88	75,0
2.CoCy	HemiPleat	F9	660	324	660	445	2500	175	34,7	0,15	12,0	88	75,0

* ME%: Minimum efficiency ref. to EN779:2012
 1. CyCy = Large Cylindrical, Small cylindrical
 2. CoCY= Large Conical, Small Cylindrical

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Pulse filters for Gas Turbines

CamPulse GT Polytech HE



Advantages

- Patented HemiPleat™ technology- proven open pleat solution
- Water repellent media protected by metal liners
- 2 in 1 package- saves space & money
- Improved air distribution
- Suitable also in high humidity conditions
- Helicord design for efficient pulse cleaning
- Self-cleaning air filter cartridges

Application: For desert/dry/ heavy dust load areas.

Type: Single stage pulse cleaning cartridges.

End caps: Galvanized (standard), stainless steel (AISI304 / 316) or powder coated

Media: PolyTech

Liners: External helical cords and internal screen secure the filter element from movement without obstruction to the pulse

EN779:2012 efficiency: M6

ASHRAE 52.2.2007 filter class:

Temperature: 70° C / 158° F max. operating temperature.

Model	Pleat	Filter class	Length 1	Diameter 1	Length 2	Diameter 2	AirFlow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg	Initial eff. %	ME %*
*CyCy	HemiPleat	M6	660	324	660	445	3000		14/21	0,15	12,8		
**CoCy	HemiPleat	M6	660	324	660	445	3000		14/21	0,24	12,8		

* CyCy = Large Cylindrical, Small cylindrical
**CoCy= Large Conical, Small Cylindrical

Campulse EF



Advantages

- Self-cleaning air filter cartridges
- High filtration efficiency
- Effective dust holding capacity
- Built-in structural strength
- Galvanized metal finish
- Media protected by metal liners on both sides

Application: Desert and arctic environments.

Type: Single stage pulse cleaning cartridges.

Caps: Galvanized (standard), stainless steel (AISI304 / 316) or powder coated.

Media: Synthetic.

Holding frames: Various on request.

EN779:2012 efficiency: M6.

ASHRAE 52.2.2007 filter class:

Temperature: 70° C / 158° F max. operating temperature.

Fire rating: Available according to DIN 4102-b2.



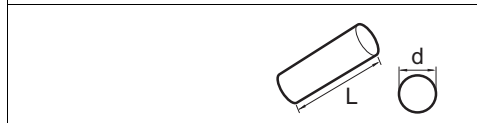
Model	Pleat	Filter class	Length 1	Diameter 1	Length 2	Diameter 2	AirFlow m ³ /h	Pressure drop	Media area m ²	Volume m ³	Weight kg	Initial eff. %	ME %*
CoCy	Dimple	M6	660	324	660	445	2500	190	46	0,24	13,5	15	15,0

* ME%: Minimum efficiency ref. to EN779:2012

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Pulse filters for Gas Turbines

Tenkay GTC/GTD/PolyTech HE



Advantages

- Self-cleaning air filter cartridges
- State-of-the art pleat spacing
- Galvanized metal finish
- Water repellent media protected by metal liners
- Improved air distribution
- Available in 4 different media grades
- Suitable also in high humidity conditions

Application: For desert/dry/ heavy dust load areas

Type: Single stage pulse cleaning cartridges

Caps: Galvanized steel, optional material

Media: Synthetic

EN779:2012 efficiency: F7, F9

ASHRAE 52.2.2007 filter class: GTC/GTD MERV 15, PolyTech MERV 16

Temperature: 71° C / 160° F max. operating temperature

Model Name	Filter class	Model	Pleat	Width	Height	Depth	Air Flow	Pressure drop	Media area	Volume m ³	Weight kg	Initial eff. %	ME %*
Tenkay GTC	F9	Standard 34"	HemiPleat	362	864	406	1150	115	16,5	0,14	8,6	75	74
Tenkay GTC	F9	GoldCone 34"	Hemipleat	362	864	406	1150	160	22,7	0,14	9,5	75	74
Tenkay GTD	F9	Standard 34"	HemiPleat	362	864	406	1150	145	16,5	0,14	8,6	88	75
Tenkay GTD	F9	GoldCone 34"	HemiPleat	362	864	406	1150	180	22,7	0,15	9,5	88	75
Tenkay PolyTech	F7	Standard 34"	HemiPleat	362	864	406	1150	147	16,5	0,14	8,6	94	35
Tenkay PolyTech	F7	GoldCone 34"	HemiPleat	362	864	406	1150	182	22,7	0,14	9,5	94	35

* ME%: Minimum efficiency ref. to EN779:2012

Campulse CamBrane



Advantages

- Water and salt resistant filter
- Non discharging EPA filter
- Optimized Sandwich construction for long life
- EPA Ultra high efficient membrane media
- 2 in 1 package - saves space & money
- Patented HemiPleat™ technology- proven open pleat solution

Application: For desert/dry/ heavy dust load areas

Type: Single stage pulse cleaning cartridges

End caps: Galvanized (standard), stainless steel (AISI304 / 316) or powder coated.

Media: Membrane

EN1822 filter class: E11

ASHRAE 52.2.2007 filter class: MERV 16

Recommended final pressure drop:

Temperature: 71°C / 160° F operating



Model	Pleat	Filter class	Length 1	Diameter 1	Length 2	Diameter 2	Air Flow m³/h	Pressure drop	Media area m²	Volume m³	Weight kg
CamPulse CamBrane	Hemipleat	E11	660	324	660	445	2500	140	34,7	0,15	12
Tenkay CamBrane	Hemipleat	E11	864	362			1150	140	34,7	0,15	12



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Farr Gold Series®



Advantages

- High collector efficiency using HemiPleat cartridges
- Up to 25% smaller
- Customised for Original Equipment Manufacturers (OEM)
- Easy to install and maintain
- Simple cartridge replacement using quick release cam bars
- Modular design for optimum flexibility

Application: The Farr Gold Series® cartridge dust and fume collectors may be used for a wide range of pollution control and product recovery applications including: Blasting, Chemical Processing, Pharmaceutical Manufacturing Processes, Fiberglass and FRP, Food Processing, Laser/Plasma Cutting, Paper Scrap, Rubber Grinding, Seed Processing, Mining, Thermal Spray and more. Contact Camfil for more information.

Type: Pulse cleaning, cartridge based dust collector with high performance filter elements. Cleaning is accomplished by pulse waves that emanate from the centre of the filter providing enhanced cleaning for a more efficient operation.

Options: A wide variety of options are available including: Explosion Venting, Special Inlet Designs, BIBO (bag in-bag out) for Pharmaceutical Applications, Custom Colours, Stainless Steel Construction, Alternative Hopper Designs etc. Please contact us with your specific requirements.

Cartridges: Vertically mounted to shed dust readily for efficient cleaning and longer service life. High filtration efficiency meeting the 5 mg/m³ or less emissions required to re-circulate the air back into the work place on non hazardous dusts.

Features

- Modular design for optimum flexibility—have it your way fast!
- Each module accommodates airflows up to 8,500 m³/h
- Module constructed of 4.5mm thick carbon steel
- Door, hopper, inlet and panels are all 3.4mm thick
- Powder painted for unsurpassed corrosion resistance
- Component configurations are virtually unlimited
- Vertical design of cartridges enables efficient pulse cleaning of dust

Farr Gold Series® Camtain®



Advantages

- Designed specifically for pharmaceutical and containment applications
- Bag-in/bag-out safe change options available.
- High collector efficiency using HemiPleat cartridges
- Modular design for optimum flexibility
- Customised for Original Equipment Manufacturers (OEM)
- Easy to install and maintain
- Simple cartridge replacement using quick release cam bars
- Up to 25% smaller

Application: The Farr Gold Series® Camtain® is used in a wide range of pharmaceutical applications including tablet presses, coating, fluid bed and spray drying, blending, granulation and general ventilation. Contact Camfil for more information.

Type: Pulse cleaning, cartridge based dust collector with high performance filter elements. Cleaning is accomplished by pulse waves that emanate from the centre of the filter providing enhanced cleaning for a more efficient operation.

Options: A wide variety of options are available including: BIBO (bag in-bag out) for Pharmaceutical Applications, Explosion Venting, Special Inlet Designs, Custom Colours, Stainless Steel Construction, Alternative Hopper Designs etc. Please contact us with your specific requirements.

Cartridges: Vertically mounted to shed dust readily for efficient cleaning and longer service life. High filtration efficiency meeting the 5 mg/m³ or less emissions required to re-circulate the air back into the work place on non hazardous dusts.



Features

- Safe-change containment systems are available for both the filter cartridges and discharge system underneath the collector.
- The cartridge change utilizes the safe change filter replacement method while the discharge uses continuous liner technology.
- The Farr Gold Series Camtain is perfect for high efficiency filtration in pharmaceutical manufacturing processes where recovery of the product is not required.
- The only dust collector that is potent compound surrogate tested for validated performance verification. Test report available upon request.

Zephyr III™ Portables



Advantages

- Ideal for industrial process contamination, source capture, and for plants requiring periodic dust collection at various locations.
- The only thing you need to supply is the electrical feed and compressed air line.
- Complete unit– plug it in and start collecting dust and fumes.

Application: The Zephyr III is a portable air cleaner for capturing welding fumes, grinding dusts, dry dusts, and soldering fumes, and other airborne particles. Not suitable for explosive dusts & solvent fumes.

Features

- Roll out dust drawer
- Quick clamp cartridge sealing/removal
- Exterior arm adjustments
- Heavy duty fume arm is obstruction free inside
- Easy, 360° hood positioning
- 1200 m³/h at the capture hood
- Three stage filtration: Primary spark trap, Gold Cone® HemiPleat® and Carbon after filter for ozone only
- Large wheels with swivels and brakes for ease in moving and positioning
- Tough powder coated surface finish inside and outside
- Venturi assisted pulse cleaning, manually activated
- Dust drawer grid minimizes dust re-entrainment
- Thermal overload in motor starter switch
- 7.5 m extension cord
- The only thing you need to supply is the electrical feed and compressed air line



HemiPleat® Gold Cone®



Advantages

- Original spare for Farr Gold Series® dust collectors
- Vertically integrated cartridge for better dust release and ease of removal and installation
- Extended Filter Life
- High Filtration Efficiency
- Pour in place one piece double gasket
- Excellent energy saving performance

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: HemiPleat Separator Technology

Sealant: Polyurethane

Temperature max: 70°C Operating

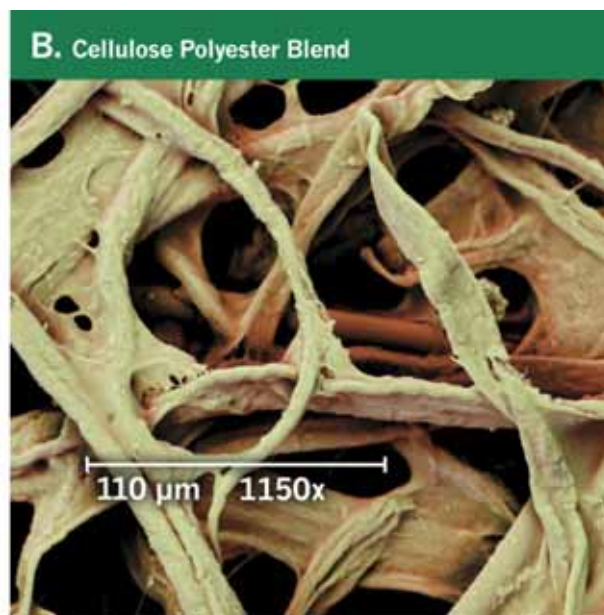
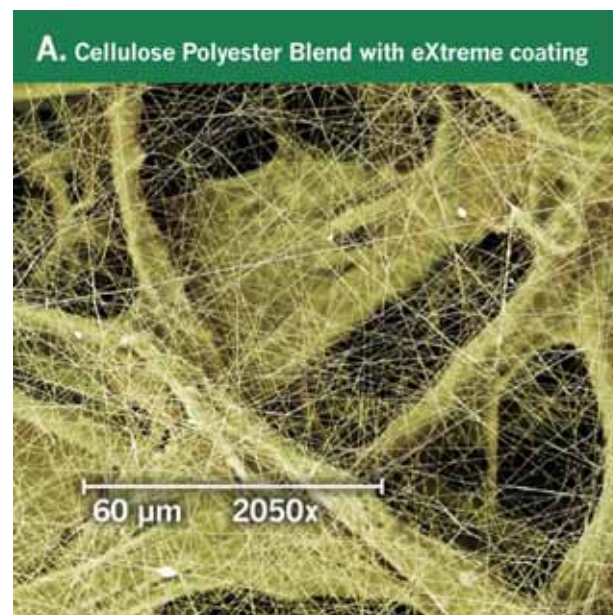
Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Internal GV support cage

Gasket: Pour in place PU one piece gasket

Filter Class: M

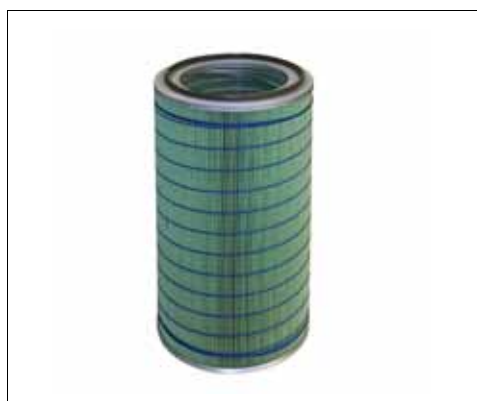
Art. No.	Model Name	Media Type	Dimensions (H) mm	Media Area m ²	Weight (kg)
325325-001	GS-GR-325	Standard Green	990	30.20	15
325325-002	GS-FR-325	Fire Retardant	990	30.20	15
325325-003	GS-CB-325	Carbon Impregnated	990	30.20	15
325325-004	GS-XG-325	eXtreme Green	990	30.20	15
325325-005	GS-XF-325	eXtreme Fire Retardant	990	30.20	15
325325-006	GS-XC-325	eXtreme Carbon Impregnated	990	30.20	15
325325-007	GS-SY-325	Synthetic	990	30.20	15
325325-008	GS-XS-325	eXtreme Synthetic	990	30.20	15



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Cartridges

HemiPleat[®] Retrofit Cartridge for Competitor Collectors



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 80/20 PolyTech[™] media
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Execution: Please refer to extended HemiPleat[®] Retrofit Cartridge for Competitive Collectors data sheet

Temperature max: 70°C Operating

Holding Frame: Internal GV support cage

Efficiency: 99.99% on 0.5 micron and larger particles by weight

Gasket: Urethane pour-in-place one piece gasket

Separator: HemiPleat Separator Technology

Sealant: Polyurethane

Filter Class: M, in accordance to independent test to DIN EN 6033502069:2010 for HemiPleat Extreme Media

Options: Flexible length <1000 mm, flexible top style, stainless steel

Camfil APC Retrofit Cartridges	HemiPleat Media	Art. No.	Model Name	
AAF Optiflo Series L 711 mm • Øo 352 mm • Øi 241 mm Open top and bottom, Internal metal cage External helical cord wrap	Standard Green	211606-001	HMPOPF-167	
	Carbon Impregnated	211606-002	HMPOPF-167-CB	
	Fire Retardant	211606-003	HMPOPF-167-FR	
	eXtreme Fire Retardant	211606-006	HMPOPF-167-XFR	
	eXtreme Green	211606-007	HMPOPF-167-XST	
	Synthetic	211606-009	HMPOPF-167-SY	
	eXtreme Synthetic	211606-010	HMPOPF-167-XSY	
	MAC Mactiflo L 762 mm • Øo 352 mm • Øi 241 mm Open top and bottom, Internal metal cage External helical cord wrap	Standard Green	211917-001	HMPDFT-178
		Carbon Impregnated	211917-002	HMPDFT-178-CB
		Fire Retardant	211917-003	HMPDFT-178-FR
eXtreme Fire Retardant		211917-006	HMPDFT-178-XFR	
eXtreme Green		211917-007	HMPDFT-178-XST	
Synthetic		211917-009	HMPDFT-178-SY	
eXtreme Synthetic		211917-010	HMPDFT-178-XSY	
Micro Air Roto-Pulse L 762 mm • Øo 373 mm • Øi 262 mm Open top, closed bottom w/ Ø 14 mm hole Internal metal cage, External helical cord wrap		Standard Green	213324-001	HMPMA-190
		Carbon Impregnated	213324-002	HMPMACB-190
		Fire Retardant	213324-003	HMPMAFP-190
	eXtreme Fire Retardant	213324-006	HMPMAXFR-190	
	eXtreme Green	213324-007	HMPMAXST-190	
	Synthetic	213324-009	HMPMASY-190	
	eXtreme Synthetic	213324-010	HMPMAXSY-190	
	Steelcraft Filtrex L 737 mm • Øo 324 mm • Øi 213 mm Open top, Closed bottom w/ Ø 14 mm hole, Internal metal cage, External helical cord wrap	Standard Green	212152-001	HMPMA-152
		Carbon Impregnated	212152-002	HMPMACB-152
		Fire Retardant	212152-003	HMPMAFP-152
eXtreme Fire Retardant		212152-006	HMPMAXFR-152	
eXtreme Green		212152-007	HMPMAXST-152	
Synthetic		212152-009	HMPMASY-152	
eXtreme Synthetic		212152-010	HMPMAXSY-152	

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Cartridges

Camfil APC Retrofit Cartridges	HemiPleat Media	Art. No.	Model Name
Torit Downflo & UAS (FJH/FJS) Series L 660 mm • Øo 324 mm • Øi 213 mm Open top and bottom, Internal metal cage External helical cord wrap	Standard Green	211985-001	HMPTB1-135
	Carbon Impregnated	211985-002	HMPTBCB-135
	Fire Retardant	211985-003	HMPTBFP-135
	eXtreme Fire Retardant	211985-006	HMPTBXFR-135
	eXtreme Green	211985-007	HMPTBXST-135
	Synthetic	211985-009	HMPTBSY-135
	eXtreme Synthetic	211985-010	HMPTBSY-135
	Standard Green	210823-001	HMPDF2SOP-154
	Carbon Impregnated	210823-002	HMPDF2COP-154
Torit Downflo II & MAC Mac2flo Series L 660 mm • Øo 352 mm • Øi 241 mm Open top and bottom, Internal metal cage External helical cord wrap	Fire Retardant	210823-003	HMPDF2FOP-154
	eXtreme Fire Retardant	210823-006	HMPDF2XFROP-154
	eXtreme Green	210823-007	HMPDF2XSTOP-154
	Synthetic	210823-009	HMPDF2SYOP-154
	eXtreme Synthetic	210823-010	HMPDF2XSYP-154
	Standard Green	211831-001	HMPTA1-135
	Carbon Impregnated	211831-002	HMPTACB-135
	Fire Retardant	211831-003	HMPTAFP-135
	eXtreme Fire Retardant	211831-006	HMPTAXFR-135
Torit TD Large Series L 660 mm • Øo 324 mm • Øi 213 mm Open top, closed Bottom w/ 14 mm hole Internal metal cage, External helical cord wrap	eXtreme Green	211831-007	HMPTAXST-135
	Synthetic	211831-009	HMPTASTY-135
	eXtreme Synthetic	211831-010	HMPTASYSY-135
	Standard Green	213079-001	HMPTA18-36
	Carbon Impregnated	213079-002	HMPTACB8-36
	Fire Retardant	213079-003	HMPTAFP8-36
	eXtreme Fire Retardant	213079-006	HMPTAXFR8-36
	eXtreme Green	213079-007	HMPTAXST8-36
	Synthetic	213079-009	HMPTASY8-36
Torit TD Small Series L 406 mm • Øo 201 mm • Øi 91 mm Open top, Closed bottom w/ 0.68" hole Internal metal cage, External helical cord wrap	eXtreme Synthetic	213079-010	HMPTASYS8-36
	Standard Green	213079-001	HMPTA18-36
	Carbon Impregnated	213079-002	HMPTACB8-36
	Fire Retardant	213079-003	HMPTAFP8-36
	eXtreme Fire Retardant	213079-006	HMPTAXFR8-36
	eXtreme Green	213079-007	HMPTAXST8-36
	Synthetic	213079-009	HMPTASY8-36
	eXtreme Synthetic	213079-010	HMPTASYS8-36
	Standard Green	213079-001	HMPTA18-36
Torit TD Small Series L 406 mm • Øo 201 mm • Øi 91 mm Open top, Closed bottom w/ 0.68" hole Internal metal cage, External helical cord wrap	Carbon Impregnated	213079-002	HMPTACB8-36
	Fire Retardant	213079-003	HMPTAFP8-36
	eXtreme Fire Retardant	213079-006	HMPTAXFR8-36
	eXtreme Green	213079-007	HMPTAXST8-36
	Synthetic	213079-009	HMPTASY8-36
	eXtreme Synthetic	213079-010	HMPTASYS8-36
	Standard Green	211989-001	HMPTB130-156
	Carbon Impregnated	211989-002	HMPTBCB30-156
	Fire Retardant	211989-003	HMPTBFP30-156
UAS (FJL) L 762 mm • Øo 324 mm • Øi 213 mm Open top and bottom, Internal metal cage External helical cord wrap	eXtreme Fire Retardant	211989-006	HMPTBXFR30-156
	eXtreme Green	211989-007	HMPTBXST30-156
	Synthetic	211989-009	HMPTBSY30-156
	eXtreme Synthetic	211989-010	HMPTBSYSY30-156
	Standard Green	213359-001	HMPSN15-182-28
	Carbon Impregnated	213359-002	HMPSNCB15-182-28
	Fire Retardant	213359-003	HMPSNFP15-182-28
	eXtreme Fire Retardant	213359-006	HMPSNXFR15-182-28
	eXtreme Green	213359-007	HMPSNXST15-182-28
UAS (SBS/SBD) L 711 mm • Øo 381 mm • Øi 254 mm Open top and bottom, Internal metal cage External helical cord wrap	Synthetic	213359-009	HMPSNSY15-182-28
	eXtreme Synthetic	213359-010	HMPSNXXSY15-182-28
	Standard Green	213613-001	HMPWB26-135-MP
	Carbon Impregnated	213613-002	HMPWB26C-135-MP
	Fire Retardant	213613-003	HMPWB26F-135-MP
	eXtreme Fire Retardant	213613-006	HMPWB26XFR-135-MP
	eXtreme Green	213613-007	HMPWB26XST-135-MP
	Synthetic	213613-009	HMPWB26SY-135-MP
	eXtreme Synthetic	213613-010	HMPWB26XSYP-135-MP
Wheelabrator 26" WCC L 660 mm • Øo 324 mm • Øi 213 mm Open top w/ mounting plate, Closed bottom, Internal metal cage, External helical cord wrap	Standard Green	213540-001	HMPWB35-182-MP
	Carbon Impregnated	213540-002	HMPWB35C-182-MP
	Fire Retardant	213540-003	HMPWB35F-182-MP
	eXtreme Fire Retardant	213540-006	HMPWB35XFR-182-MP
	eXtreme Green	213540-007	HMPWB35XST-182-MP
	Synthetic	213540-009	HMPWB35SY-182-MP
	eXtreme Synthetic	213540-010	HMPWB35XSYP-182-MP
	Standard Green	213540-001	HMPWB35-182-MP
	Carbon Impregnated	213540-002	HMPWB35C-182-MP
Fire Retardant	213540-003	HMPWB35F-182-MP	
Wheelabrator 36" WCC L 914 mm • Øo 324 mm • Øi 213 mm Open top w/ mounting plate, Closed bottom, Internal metal cage, External helical cord wrap	eXtreme Fire Retardant	213540-006	HMPWB35XFR-182-MP
	eXtreme Green	213540-007	HMPWB35XST-182-MP
	Synthetic	213540-009	HMPWB35SY-182-MP
	eXtreme Synthetic	213540-010	HMPWB35XSYP-182-MP

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Cartridges

DuraPleat DPJ 145



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: Hot Melt Separator Technology

Sealant: Polyurethane (2 - K - Sealant)

Temperature max: 80 °C - (optional 120°C)

Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Perforated inner Core GV (optional Stainless steel)

Gasket: Pour in place PU one piece gasket

Filter Class: M

Options: PA6 flange, 4-lug design

Art. No.	Model Name	Dimensions (H) mm	Media Area (m ²)
7903013	DPPJ-ML-0145/0025/0300-01-P0-B-00	300	1,10
7903025	DPAJ-ML-0145/0025/0300-01-P0-B-00	300	1,10
7903039	DPMJ-ML-0145/0025/0300-01-P0-B-00	300	1,10
7903014	DPPJ-ML-0145/0025/0600-02-P0-B-00	600	2,10
7903026	DPAJ-ML-0145/0025/0600-02-P0-B-00	600	2,10
7903040	DPMJ-ML-0145/0025/0600-02-P0-B-00	600	2,10
7903015	DPPJ-ML-0145/0025/1000-03-P0-B-00	1000	3,50
7903027	DPAJ-ML-0145/0025/1000-03-P0-B-00	1000	3,50
7903041	DPMJ-ML-0145/0025/1000-03-P0-B-00	1000	3,50
7903016	DPPJ-ML-0145/0025/1200-04-P0-B-00	1200	4,20
7903028	DPAJ-ML-0145/0025/1200-04-P0-B-00	1200	4,20
7903042	DPMJ-ML-0145/0025/1200-04-P0-B-00	1200	4,20

DuraPleat DPJ 156



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: Hot Melt Separator Technology

Sealant: Polyurethane (2 - K - Sealant)

Temperature max: 80 °C - (optional 120°C)

Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Perforated inner Core GV (optional Stainless steel)

Gasket: Pour in place PU one piece gasket

Filter Class: M

Options: PA6 flange, 4-lug design

Art. No.	Model Name	Dimensions (H) mm	Media Area (m ²)
7903017	DPPJ-ML-0156/0030/0300-01-P0-B-00	300	1,10
7903029	DPAJ-ML-0156/0030/0300-01-P0-B-00	300	1,10
7903043	DPMJ-ML-0156/0025/0300-01-P0-B-00	300	1,10
7903018	DPPJ-ML-0156/0030/0600-02-P0-B-00	600	2,20
7903030	DPAJ-ML-0156/0030/0600-02-P0-B-00	600	2,20
7903044	DPMJ-ML-0156/0025/0600-02-P0-B-00	600	2,20
7903019	DPPJ-ML-0156/0030/1000-03-P0-B-00	1000	3,60
7903031	DPAJ-ML-0156/0030/1000-03-P0-B-00	1000	3,60
7903045	DPMJ-ML-0156/0025/1000-03-P0-B-00	1000	3,60
7903020	DPPJ-ML-0156/0030/1200-04-P0-B-00	1200	4,32
7903032	DPAJ-ML-0156/0030/1200-04-P0-B-00	1200	4,32
7903046	DPMJ-ML-0156/0025/1200-04-P0-B-00	1200	4,32

Filter Cartridges

DuraPleat DPJ 218



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: Hot Melt Separator Technology

Sealant: Polyurethane (2 - K - Sealant)

Temperature max: 80 °C - (optional 120°C)

Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Perforated inner Core GV (optional Stainless steel)

Gasket: Pour in place PU one piece gasket

Filter Class: M

Options: PA6 flange, 4-lug design

Art. No.	Model Name	Dimensions (H) mm	Media Area (m ²)
7903021	DPPJ-ML-0218/0030/0300-01-P0-B-00	300	1,50
7903033	DPAJ-ML-0218/0030/0300-01-P0-B-00	300	1,50
7903047	DPMJ-ML-0218/0030/0300-01-P0-B-00	300	1,50
7903022	DPPJ-ML-0218/0030/0600-03-P0-B-00	600	3,10
7903034	DPAJ-ML-0218/0030/0600-03-P0-B-00	600	3,10
7903048	DPMJ-ML-0218/0030/0600-03-P0-B-00	600	3,10
7903023	DPPJ-ML-0218/0030/1000-05-P0-B-00	1000	5,10
7903035	DPAJ-ML-0218/0030/1000-05-P0-B-00	1000	5,10
7903049	DPMJ-ML-0218/0030/1000-05-P0-B-00	1000	5,10
7903024	DPPJ-ML-0218/0030/1200-06-P0-B-00	1200	6,12
7903036	DPAJ-ML-0218/0030/1200-06-P0-B-00	1200	6,12
7903050	DPMJ-ML-0218/0030/1200-06-P0-B-00	1200	6,12

DuraPleat DPJ 325



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: Hot Melt Separator Technology

Sealant: Polyurethane (2 - K - Sealant)

Temperature max: 80 °C - (optional 120°C)

Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Perforated inner Core GV (optional Stainless steel)

Gasket: Pour in place PU one piece gasket

Filter Class: M

Options: PA6 flange, 4-lug design

Art. No.	Model Name	Dimensions (H) mm	Media Area (m ²)
7903001	DPPJ-ML-0325/0048/0300-05-P0-B-00	300	5,00
	DPAJ-ML-0325/0048/0300-05-P0-B-00	300	5,00
7903051	DPMJ-ML-0325/0048/0300-05-P0-B-00	300	5,00
	DPOJ-ML-0325/0048/0300-05-P0-B-00	300	5,00
7903002	DPPJ-ML-0325/0048/0600-10-P0-B-00	600	10,00
7903008	DPAJ-ML-0325/0048/0600-10-P0-B-00	600	10,00
7903052	DPMJ-ML-0325/0048/0600-10-P0-B-00	600	10,00
	DPOJ-ML-0325/0048/0600-10-P0-B-00	600	10,00
7903004	DPPJ-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7903010	DPAJ-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7903053	DPMJ-ML-0325/0048/1000-17-P0-B-00	1000	17,00
	DPOJ-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7903005	DPPJ-ML-0325/0048/1200-20-P0-B-00	1200	20,00
7903011	DPAJ-ML-0325/0048/1200-20-P0-B-00	1200	20,00
7903054	DPMJ-ML-0325/0048/1200-20-P0-B-00	1200	20,00
	DPOJ-ML-0325/0048/1200-20-P0-B-00	1200	20,00

Filter Cartridges

DuraPleat DPD 325



Advantages

- Camfil Pleat Separator Technology
- Low Pressure Drop
- Extended Filter Life
- High Filtration Efficiency
- 100% spun bond polyester
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Separator: Hot Melt Separator Technology

Sealant: Polyurethane (2 - K - Sealant)

Temperature max: 80 °C - (optional 120°C)

Test Standard: DIN EN 60335-2-69:2010

Holding Frame: Perforated inner Core GV (optional Stainless steel)

Gasket: Pour in place PU one piece gasket

Filter Class: M

Options: Double open end, stainless steel, hole size tensioning, outer cage.

Art. No.	Model Name	Dimensions (H) mm	Media area m ²
7901001	DPPD-ML-0325/0048/0600-10-P0-B-00	600	10,00
7901007	DPAD-ML-0325/0048/0600-10-P0-B-00	600	10,00
7901013	DPMD-ML-0325/0048/0600-10-P0-B-00	600	10,00
	DPOD-ML-0325/0048/0600-10-P0-B-00	600	10,00
7901002	DPPD-ML-0325/0048/0660-11-P0-B-00	660	11,00
7901008	DPAD-ML-0325/0048/0660-11-P0-B-00	660	11,00
7901014	DPMD-ML-0325/0048/0660-11-P0-B-00	660	11,00
	DPOD-ML-0325/0048/0660-11-P0-B-00	660	11,00
7901005	DPPD-ML-0325/0048/0750-12-P0-B-00	750	12,50
	DPAD-ML-0325/0048/0750-12-P0-B-00	750	12,50
7901015	DPMD-ML-0325/0048/0750-12-P0-B-00	750	12,50
	DPOD-ML-0325/0048/0750-12-P0-B-00	750	12,50
7901003	DPPD-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7901009	DPAD-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7901016	DPMD-ML-0325/0048/1000-17-P0-B-00	1000	17,00
	DPOD-ML-0325/0048/1000-17-P0-B-00	1000	17,00
7901004	DPPD-ML-0325/0048/1200-20-P0-B-00	1200	20,00
7901010	DPAD-ML-0325/0048/1200-20-P0-B-00	1200	20,00
7901017	DPMD-ML-0325/0048/1200-20-P0-B-00	1200	20,00
	DPOD-ML-0325/0048/1200-20-P0-B-00	1200	20,00
7902001	DPPD-ML-0325/0048/0600-10-P0-B-01	600	10,00
7902008	DPAD-ML-0325/0048/0600-10-P0-B-01	600	10,00
7902018	DPMD-ML-0325/0048/0600-10-P0-B-01	600	10,00
	DPOD-ML-0325/0048/0600-10-P0-B-01	600	10,00
7902002	DPPD-ML-0325/0048/0660-11-P0-B-01	660	11,00
7902009	DPAD-ML-0325/0048/0660-11-P0-B-01	660	11,00
7902019	DPMD-ML-0325/0048/0660-11-P0-B-01	660	11,00
	DPOD-ML-0325/0048/0660-11-P0-B-01	660	11,00
7902003	DPPD-ML-0325/0048/1000-17-P0-B-01	1000	17,00
7902010	DPAD-ML-0325/0048/1000-17-P0-B-01	1000	17,00
7902020	DPMD-ML-0325/0048/1000-17-P0-B-01	1000	17,00
	DPOD-ML-0325/0048/1000-17-P0-B-01	1000	17,00
7902004	DPPD-ML-0325/0048/1200-20-P0-B-01	1200	20,00
7902011	DPAD-ML-0325/0048/1200-20-P0-B-01	1200	20,00
7902021	DPMD-ML-0325/0048/1200-20-P0-B-01	1200	20,00
	DPOD-ML-0325/0048/1200-20-P0-B-01	1200	20,00

As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

Filter Cartridges

HemiPleat® Gold Cone® Cartridge for Tenkay® Mark III & IV Collectors



Advantages

- Camfil Pleat Separator Technology
- Low Pressure drop
- Extended Filter Life
- High Filtration Efficiency
- 80/20 PolyTech™ media
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Execution: Please refer to extended HemiPleat® Gold Cone® Cartridge for Tenkay® Mark III & IV Collectors data sheet

Temperature max: 70°C Operating

Holding Frame: Internal GV support cage

Efficiency: 99.99% on 0.5 micron and larger particles by weight

Filter Class: M, in accordance to independent test to DIN EN 60335-2-69:2010 for HemiPleat Extreme Media

Gasket: Pour in place one piece gasket

Separator: HemiPleat Separator Technology

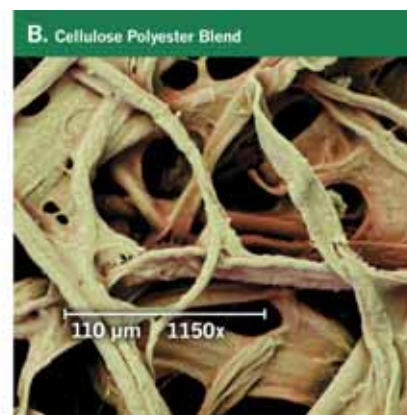
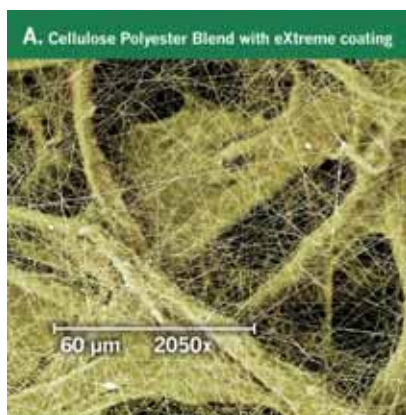
Sealant: Polyurethane

Filter Series	HemiPleat Media	Art. No.	Model No.
HemiPleat Gold Cone for Tenkay Mark III L 686 mm • Ø 324 mm	Standard Green	211922-001	TK-GR-197-27"L-GC
	Carbon Impregnated	211922-002	TK-FR-197-27"L-GC
	Fire Retardant	211922-003	TK-CB-197-27"L-GC
	eXtreme Fire Retardant	211922-009	TK-XF-197-27"L-GC
	eXtreme Green	211922-010	TK-XG-197-27"L-GC
	Synthetic	211922-014	TK-SY-197-27"L-GC
	eXtreme Synthetic	211922-015	TK-XS-197-27"L-GC
	Standard Green	211872-001	TK-GR-244-34"L-GC
	Carbon Impregnated	211872-002	TK-FR-244-34"L-GC
	Fire Retardant	211872-003	TK-CB-244-34"L-GC
HemiPleat Gold Cone for Tenkay Mark IV L 864 mm • Ø 324 mm	eXtreme Fire Retardant	211872-009	TK-XF-244-34"L-GC
	eXtreme Green	211872-010	TK-XG-244-34"L-GC
	Synthetic	211872-014	TK-SY-244-34"L-GC
	eXtreme Synthetic	211872-015	TK-XS-244-34"L-GC

- Designed for existing installations of the classic Tenkay Mark III & IV collectors, this cartridge incorporates all the added benefits of Gold Cone technology. The additional media area further lowers the pressure drop and extends the cartridge filter life.

- Featuring an injection molded inner cone in the centre of the cartridge, cleaning is accomplished by pulse waves that emanate outward from this inner cone providing enhanced cleaning for more efficient operation and reduced service requirements.

- The HemiPleat separator bead opens up the pleats uniformly, allowing more effective cleaning and lower pressure drop.



Filter Cartridges

HemiPleat® Tenkay® Cartridge for Mark II, III & IV Collectors



Advantages

- Camfil Pleat Separator Technology
- Low Pressure drop
- Extended Filter Life
- High Filtration Efficiency
- 80/20 PolyTech™ media
- Pour in place one piece gasket
- Broad design portfolio

Application: Air Pollution Control filter cartridge to collect dust, fumes and/or oil mist in many different industrial applications and processes

Execution: Please refer to extended HemiPleat® Tenkay® Cartridge for Mark II, III & IV Collectors data sheet

Temperature max: 70 °C for Standard, 80 °C for Med. Temp.

Holding Frame: Internal GV support cage

Efficiency: 99.99% on 0.5 micron and larger particles by weight

Filter Class: M, in accordance to independent test to DIN EN 60335-2-69:2010 for HemiPleat Extreme Media

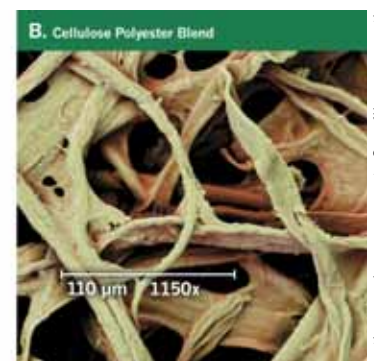
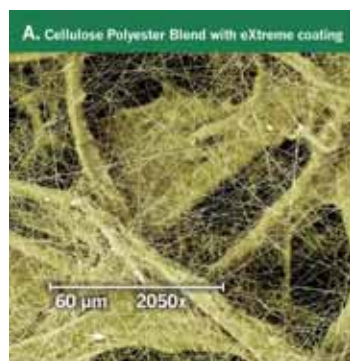
Gasket: Pour in place one piece gasket

Separator: HemiPleat Separator Technology

Sealant: Polyurethane

Filter Series	HemiPleat Media	Part No.	Model No.
Tenkay Mark II L 559 mm • Øo 324 mm • Øi 213 mm	HemiPleat Green	211637-001	TK-GR-115-22"L
	Carbon Impregnated	211637-002	TK-CB-115-22"L
	Fire Retardant	211637-003	TK-FR-115-22"L
	eXtreme Fire Retardant	211637-009	TK-XF-115-22"L
	eXtreme Green	211637-010	TK-XG-115-22"L
	Synthetic	211637-014	TK-SY-115-22"L
	eXtreme Synthetic	211637-015	TK-XS-115-22"L
	Standard Green	211547-001	TK-GR-140-27"L
	Carbon Impregnated	211547-002	TK-CB-140-27"L
	Fire Retardant	211547-003	TK-FR-140-27"L
Tenkay Mark III L 686 mm • Øo 324 mm • Øi 213 mm	eXtreme Fire Retardant	211547-009	TK-XF-140-27"L
	eXtreme Green	211547-010	TK-XG-140-27"L
	Synthetic	211547-014	TK-SY-140-27"L
	eXtreme Synthetic	211547-015	TK-XS-140-27"L
	Standard Green	211736-001	TK-GR-177-34"L
	Carbon Impregnated	211736-002	TK-CB-177-34"L
	Fire Retardant	211736-003	TK-FR-177-34"L
	eXtreme Fire Retardant	211736-009	TK-XF-177-34"L
	eXtreme Green	211736-010	TK-XG-177-34"L
	Synthetic	211736-014	TK-SY-177-34"L
Tenkay Mark IV L 864 mm • Øo 324 mm • Øi 213 mm	eXtreme Synthetic	211736-015	TK-XS-177-34"L

- Greater media utilisation and more effective filtration provide enhanced performance and longer service life.
- HemiPleat® media is the most advanced pulse-cleaned media ever made and now comes standard with silicone impregnation for high humidity resistance.
- The HemiPleat® separator bead opens up the pleats uniformly, allowing more effective cleaning and lower pressure drop.
- A wide variety of media and construction options provide a multitude of cartridge configuration options to suit your application.



As part of our program for continuous improvement, Camfil reserves the right to change specifications without notice.

A+

ENERGY HERO

SAVE ENERGY. BE A HERO.



The new Opakfil ES

With the new Camfil Opakfil ES you can save up to 20 percent more energy over the year. It will also help you save money and keep a healthy indoor air quality, improving the health of the building inhabitants. Opakfil ES is ranked A+, top-class, in the new Eurovent Energy Rating for air filters.

Be the energy hero of your company.
Upgrade now at camfil.com/energyhero

 **camfil**
CLEAN AIR SOLUTIONS

 大久生物科技股份有限公司
GRANDEV BIOTECHNOLOGY CO., LTD.

Air Filtration Products & Solutions - Europe

CAMFIL is the world's largest and leading manufacturer of filters and clean air solutions.

Camfil is the global industry leader in clean air solutions with more than 50 years of experience.

Our solutions protect people, processes and the environment to benefit human health, increase performance, and reduce and manage energy consumption. Twenty-six manufacturing plants, six R&D sites and more than 60 local sales offices worldwide provide service and support to our customers. The Camfil Group is headquartered in Sweden but more than 95% of sales are international. The Group has approximately 4,000 employees and sales close to SEK 5.5 billion.



GRANDEVER BIOTECHNOLOGY CO., LTD.
大久生物科技股份有限公司
Valuable contribution to the power and science community.
誠心貢獻於電機和科學共同體

11471 台北市內湖區新明路273巷6號1樓
1F., No.6, Ln. 273, Xinming Rd., Neihu Dist., Taipei City 11471, Taiwan (R.O.C.)

服務專線Tel : (02)8792-3722

服務傳真Fax : (02)8792-3761

電子信箱Email : info@grandever-biotech.com.tw

公司網址Website : www.grandever-biotech.com.tw

www.camfil.com