

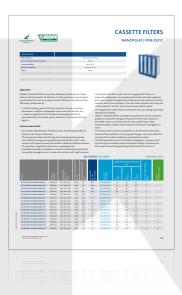
viledon®

PRODUCT CATALOG 2019 / 2020

AIR AND LIQUID FILTRATION



WHAT'S NEW AT A GLANCE



DIN EN ISO 16890-1:2017

EN 779:2012

EN 1822:2011 |

ISO 29463

DIN EN

60335-2-69:2010

Particulate air filters for general ventilation

V

Particulate air filters for general ventilation

High efficiency air filters (EPA, HEPA and ULPA)

Dust removal equipment, air filtration in workplaces



QUICK GUIDE

OVERVIEW OF FILTER CLASSES

VILEDON E-CATALOG

We want to make choosing the right products as easy as possible for you. See at a glance how the catalog pages are organized. Which filter is right for which application? Our overview of filter classes will give you the facts you need.

View and compare products on the move or directly request your personal product selection – our e-catalog makes it easy.

P. 4-5

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products. freudenberg-filter. com

Experience the exciting world of Freudenberg Filtration Technologies in two minutes – simply scan the QR code and watch our company video.



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FILTERS FOR DUST REMOVAL

GAS PHASE FILTERS

hydroMaxx, hydroPack,

FILTER CARTRIDGES FOR **TURBOMACHINERY**

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nutritexx, cooltexx, pluratexx, novatexx

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EPA, HEPA AND ULPA FILTERS

Aluminum frame, steel sheet frame, plastic frame, MDF frame, high volume flow, cartridges, plastic plenum hood, accessories

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ACCESSORIES | MORE INFORMATION

Mounting frames, seals, website, e-catalog, imprint, overview of filter classes

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SIMPLE AND DIRECT

TO ALL IMPORTANT INFORMATION

The new Viledon® product catalog 2019/2020 makes it even simpler for you to select the right products. To make it easier for you to get an overview of the different test standards, we have used colors to devide the table fields. There is also a QR code next to each product category, which you can use to easily and directly access the corresponding product page in our e-catalog, where you will find detailed information.

Notes on technical specifications

Filter groups according to ISO 16890
Measurements according to ISO 16890
were performed exclusively for our
Viledon® filters. The results cannot be
transferred to other filters.

Filter classes

Groups G to F according to EN 779:2012 Groups E to U according to EN 1822:2009 / ISO 29463

Energy efficiency classes | Energy consumption According to EUROVENT 4/21 measured at 3,400 m³/h

Characteristics

The most important information on the respective product at a glance.

2 Applications and features

Overview of the most important applications and features. Further information in our e-catalog.

www products.freudenberg-filter.com

Gray table columns

The gray columns show generally valid technical characteristics. This data applies to all test standards in the catalog.

4 Dark blue table columns

Technical characteristics according to test standard EN 779:2012 for filter classes G 1–F9. Test standard EN 1822:2009 and ISO 29463 for filter classes E 10–U 17 and ISO 15 E–ISO 75 U respectively.

5 Light blue table columns

Technical characteristics according to the new ISO 16890 test standard, from ISO coarse to ISO ePM1.

6 Green table columns

Energy efficiency classes according to EUROVENT 4/21.

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Simple and direct

Discover the products of Freudenberg Filtration Technologies online. Our digital e-catalog offers you fast, easy and constantly updated access to our products. Wherever you are. Anytime, anywhere. No matter which mobile device you use (smartphone, tablet, desktop PC).

www products.freudenberg-filter.com/en



SAMPLE PAGE





CASSETTE FILTERS

NANOPLEAT | FINE DUST





2

Application

Viledon® NanoPleat filters have been developed specifically for intake, exhaust and recirculated air filtration in HVAC systems posing stringent requirements for clean air quality and cost-efficiency. They ensure clean, efficiently conditioned air

- in office buildings, production halls, airports, libraries, museums, laboratories, hospitals, old people's homes and care facilities, etc.,
- in sensitive applications for the food and beverage industries, pharmaceuticals, chemicals, optics, electronics, and medical technology, etc.

Features and benefits

- Consistently high filtration efficiency under all operating conditions thanks to the unique HSN media.
- The low pressure drop and the high dust holding capacity provide ultra-efficient, energy-saving operating characteristics, with a slow increase in the pressure drop and resultant additional lifetime reserves. This produces a significant reduction in operating costs.
- Simplified handling at installation, since the HSN medium will not be irreversibly damaged even if it comes into contact with slight pressure.

- The pleated HSN filter media, cast in a tough plastic frame in a leakproof configuration, are exceptionally sturdy and water-repellent. Even when exposed to high levels of dampness and moisture, the filter medium will not be saturated; in fact the water droplets will simply roll off the material's surface. The pressure drop remains almost unchanged even under these circumstances, thus providing maximized operational reliability.
- Viledon® NanoPleat filters are highly resistant to chemicals, microbiologically inert and meet all hygiene requirements for HVAC systems to EN 16798-3:2017-11 and the German VDI Guideline 6022. Their microbial safety has been confirmed by the Institute for Air Hygiene in Berlin.
- The sturdy construction ensures optimum performance even under turbulent flow conditions or during load changes. This means that the risk of particle or fiber shedding is practically eliminated.
 The filter elements are free of metals and halogens, corrosion-proof
- The filter elements are free of metals and halogens, corrosion-proof and also fully incinerable and thus disposal-friendly. The frame and filter media are self-extinguishing to DIN 53438 (Fire class F 1).







3		EURO	VENT 4/21								
			IE FLOW	DROP			PARTICUL	ATE MATTER E [%]	FFICIENCY	SIZE	ţo.
ARTIC LE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	NOMINAL VOLUME [m³/h]	INITIAL PRESSURE [Pa]	FILTER CLASS ACC. TO EN 779:2012	HITER CLASS ACC. TO EN 779:2012 CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE [µm]	ENERGY EFFICIENCY CLASS*
MV 75 HSN 1/2 V08X24-Z00N-A33	53429114	287×592×292	1,500	85	M6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 4/6 V08X24-Z00N-A33	53475720	402×592×292	2,100	85	M6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 5/6 V08X24-Z00N-A33	53429115	490×592×292	2,700	85	M 6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 1/1 V08X24-Z00N-A33	53424217	592×592×292	3,400	85	M 6	ISO ePM10 75%	44	58	87	7	
MV 85 HSN 1/2 V08X24-Z00N-B33	53429116	287×592×292	1,500	100	F7	ISO ePM2,5 80%	74	81	93	5	C
MV 85 HSN 4/6 V08X24-Z00N-B33	53441273	402×592×292	2,100	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 85 HSN 5/6 V08X24-Z00N-B33	53429117	490×592×292	2,700	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 85 HSN 1/1 V08X24-Z00N-B33	53424218	592×592×292	3,400	100	F7	ISO ePM2,5 80%	74	81	93	5	C
MV 95 HSN 1/2 V08X24-Z00N-C33	53429118	287×592×292	1,500	110	F8	ISO ePM1 75%	79	84	94	4	C
MV 95 HSN 4/6 V08X24-Z00N-C33	53441279	402×592×292	2,100	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 95 HSN 5/6 V08X24-Z00N-C33	53429124	490×592×292	2,700	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 95 HSN 1/1 V08X24-Z00N-C33	53424229	592×592×292	3,400	110	F8	ISO ePM1 75%	79	84	94	4	C
MV 98 HSN 1/2 V08X24-Z00N-D33	53429135	287×592×292	1,500	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 4/6 V08X24-Z00N-D33	53490992	402×592×292	2,100	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 5/6 V08X24-Z00N-D33	53429134	490×592×292	2,700	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 1/1 V08X24-Z00N-D33	53424230	592×592×292	3,400	120	F9	ISO ePM1 85%	85	88	96	3	В

www.eurovent-certification.com)

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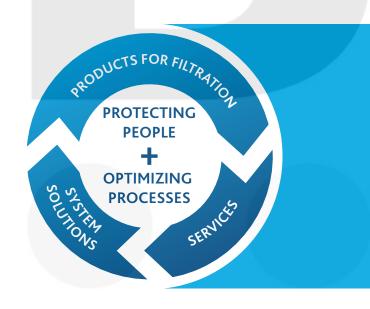
CUSTOMER-ORIENTED. INNOVATION-DRIVEN. VALUES-BASED.

PROTECTING PEOPLE, OPTIMIZING PROCESSES – THIS IS OUR ASPIRATION

In many industrial processes and always when it comes to protecting people, the filtration of air and liquids is essential. Filtration affects the quality of an end product, the productivity of a company and its contribution to environmental protection. That's why companies expect a great deal from filtration. That's why our customers expect a great deal from us. We are committed to providing filtration that protects people in the best and most reliable way possible. We support companies in achieving excellent results. It motivates us to develop solutions that make filtration an important success factor. It inspires us when, with our support, our customers protect the environment and natural resources, reduce their operating and repair costs, and improve process efficiency or quality of life.

"CUSTOMERS VALUE OUR FILTER
TECHNOLOGY CONSULTING EXPERTISE
AND OUR RELIABLE PRODUCT SOLUTIONS
AND SERVICES. WE GREATLY APPRECIATE
THIS, AND IT MOTIVATES US EVERY DAY
TO BE A VALUABLE PARTNER FOR OUR
CUSTOMERS."

Dr. Andreas Kreuter, Speaker of the Management Board



This is what we stand for

- · Quality of life, health and safety
- Respect and responsibility for people and the environment
- Sustainable protection of natural resources
- Combining economic efficiency with social responsibility
- Continuously striving to make our customers more economically and sustainably successful through tailor-made products and fitration solutions

We achieve these goals through

- A complete service portfolio consisting of products, system solutions and service packages
- Convincing professional and consulting expertise
- Profound know-how in many industries and applications
- The knowledge and experience of more than 60 years in the filtration business

Discover the new Freudenberg Filtration Technologies video on



www.freudenberg-filter.com/en/company



www.youtube.com/user/FreudenbergFilter



DISCOVER THE WORLD OF FILTRATION

GROW WITH MANY DIFFERENT SOLUTIONS

Freudenberg Filtration Technologies consists of the three core segments "Automotive", "Industrial" and "Living". This is where experience and knowledge come together to develop our application-oriented filtration solutions.

World of Automotive

Freudenberg Filtration Technologies is one of the leading partners for automotive cabin air filters. As Number 1 on the market, our micronAir® cabin air filters protect vehicle occupants against particulate matter, bacteria and bad smells, thus increasing driving comfort and safety. Our portfolio of engine intake air filters makes internal combustion engines even more efficent and at the same time prevents damage to sensitive components. In addition, we support our customers in the development of alternative drive technologies with high-performance filters for e-mobility and fuel cell vehicles.



World of Industrial

Whether for turbomachinery and compressors, surface treatment technology, the food and beverage industry or other industries: the Viledon® brand offers complete solutions and services for all aspects of industrial air and liquid filtration. The developments and concepts we create are always based on the latest scientific findings and many years of practical experience. This enables us to produce high-quality filter elements and system solutions that make companies and their plants more economically efficient and sustainable.

World of Living

Indoor air quality is often many times worse than outside. Viledon® filter media provide effective protection against dust, germs and unpleasant odors in the office and at home. Together with experienced partners, we develop high-performance filters for household and office appliances as well as air filter systems, thus contributing to health protection and improving the quality of life.



OUR FIELDS OF EXPERTISE

Agricultural vehicles
Air pollution control
Cabin air filters
Clean rooms and pharma
Engine intake air filters
Food and beverage industry
Fuel cell filters
Gas phase filtration
Gas turbines and compressors
HVAC systems
Industrial painting
Liquid filtration
Mining
Offices and living spaces
Wastewater treatment

YOUR WORLD OF INDUSTRIAL FILTRATION

DISCOVER OUR VILEDON SOLUTIONS AND SERVICES FOR CLEAN AIR AND LIQUIDS





AIR POLLUTION CONTROL

GAS PHASE FILTRATION

CORROSION CONTROL, ODOR CONTROL, VOC CONTROL

INDUSTRIAL PAINTING

CARS, PARTS, SPRAY BOOTHS, SPRAY WALLS





SUSTAINABLE ACTION AS AN INTEGRAL PART OF CORPORATE SUCCESS

INNOVATIVE FILTRATION SOLUTIONS ENSURE A BETTER QUALITY OF LIFE

For the Freudenberg Group as a value-oriented technology company, success means being successful in the market while at the same time fulfilling our responsibility for society. Since our company was founded 170 years ago, these two goals have been inextricably linked. Shaping a sustainable future is a global challenge. At Freudenberg Filtration Technologies, our innovative solutions actively contribute to this goal.

Sustainability at Freudenberg has two dimensions: handprint and foot-print. The first aspect is to reduce our footprint. To this end, we are constantly improving our own processes and facilities as a means to conserve resources. On the other hand, we also want to increase our handprint. This means helping our customers to increase their efficiency by developing innovative products and services.



CLEAN WATER. CLEAN AIR. CLEAN OUTCOME.

In the search for sustainable filtration solutions, Freudenberg Filtration Technologies also carries out research in the field of energy efficiency. Ventilation and air conditioning units in office buildings consume around 40 percent of the building's total energy demand, while the proportion for cleanroom ventilation can be as high as 80 percent. That is mainly due to the flow resistance of the air filters. High-quality Viledon® filtration solutions enable the energy-optimized operation of ventilation and air conditioning systems

without difficulty. Low pressure differential curves combined with high dust-holding capacity ensure clean air in buildings and cleanrooms while greatly reducing the energy requirements of the entire HVAC system. Freudenberg Filtration Technologies is constantly researching more resource-friendly and energy-efficient possibilities. Because through innovative production processes, products and services, we can play an active role in responsibly and sustainably interacting with our planet.





Antje Klink, Global Vice President Industrial Filtration

MAKING AN IMPORTANT CONTRIBUTION

- Efficiency plays an important role in the materials we use, whether they are recycled or partially renewable, and how they are handled at end-of-life.
- The handling of waste is important, for example when it comes to water. Aquabio technology filters wastewater in the food and beverage industry and turns up to 70 percent of it into drinking water. This reduces energy consumption, operating costs and CO₂ emissions.
- Another major issue is clean air. Especially in high-emission industrial plants, dust removal products ensure impressively low clean gas values of less than 0.1 mg/Nm³.
- In interior rooms, particles and harmful gases can be reliably separated with special filters for room air cleaners a big plus for the health of countless people.





GETTING TO THE BOTTOM OF PAINT DEFECTS

NEW FILTERCAIR SERVICE FOR SURFACE TREATMENT

Fewer errors and lower rejection rates along with increased plant availability: ensuring smooth and efficient processes is essential for industrial painting. For this purpose, the comprehensive Viledon® filterCair service offers a filter program plus services plus problem-specific consulting at guaranteed fixed costs. Alongside the tried and tested Viledon® filterCair service, a modular offering enables the service package to be flexibly adapted to individual requirements.

For more than twenty years, we have supported our customers world-wide in making painting processes more efficient and cost-effective. With our new Viledon® filterCair module solutions, customers can decide for themselves which service packages are important to them and design their own individual service program. We are always on hand to provide expert on-site advice, identify optimization potential and provide a comprehensive interactive report.

The various modules cover a wide range of services. In the "Basic" module, for example, the particle spectrum, temperature, humidity or sinking speeds are determined and the filter setup is analyzed and evaluated. In the case of specific paint defects, a special module provides information via incident light and electron microscopy. From checking the paint dryer to inspecting work clothing, Viledon® filterCair for surface treatment technology reveals every possible source of defects. Regardless of whether you have a permanent service contract or prefer to use our modules to provide the service support you need – together we will find the ideal solution for greater efficiency and reduced plant downtime.



Benefits of Viledon® filterCair modules Comprehensive, problem-specific

- Comprehensive, problem-specific service packages
- Ability to combine individual service modules
- Status analysis and detailed recommendations for action by our Viledon® filterCair experts
- Comprehensive, interactive and audit-relevant measurement reports
- Individual on-site consulting

HIGHEST EFFICIENCY WITH MAXIMUM SAFETY

VILEDON FILTERS FOR HAZARDOUS AREAS

Occupational safety is not only a key issue in the production facilities of Freudenberg Filtration Technologies — our customers also place the highest value on safe work processes. In sensitive areas, explosion protection can be an essential aspect, for example. Most explosions end with serious or even fatal consequences. But many workplace accidents are avoidable, provided that sources of danger are identified in good time and protective measures are taken. Viledon® offers a wide range of different filter models for hazardous areas based on the ATEX product directive.









"ATEX" IS AN ABBREVIATION OF THE FRENCH
"ATMOSPHÈRE EXPLOSIBLES" (EXPLOSIVE
ATMOSPHERES).

Since June 2003, only equipment, components and protective systems that comply with the ATEX product directive are permitted to be used in potentially explosive atmospheres. This is currently regulated by Directive 2014/34/EU of the European Parliament. The aim of the ATEX directives is to protect all personnel (e. g. device users, machine operators and other employees) who work in hazardous areas.

The ATEX directive stipulates that all products used in potentially explosive atmospheres must possess certain electrostatic properties. This

means that all air filters or filters used in ATEX systems in these hazardous areas must also meet these requirements. In addition, Viledon®'s certified ATEX product range not only offers a wide selection of different filter models, but also impresses in terms of efficiency. In contrast to comparable ATEX filters, Viledon®'s ATEX filters guarantee optimum filtration performance with maximum safety. All ATEX versions of Viledon® air filters are certified by DEKRA in accordance with EN 60079-32-2:15 and DIN EN 54345-1 and therefore meet the electrostatic requirements of ATEX zones.

available



Even small quantities of harmful gases such as H₂S, SO₂, SO₃, Cl₂, Cl₂O, NO_x and NH₃ can cause damage to metallic components. As a result, malfunctions, system failures or even data

loss can quickly occur in data centers. Excessive concentrations of harmful gases in control rooms or sensitive production facilities can pa-

ralyse entire production processes.

Viledon® ChemWatch reliably records, monitors and analyses the corrosiveness of indoor air. The system is particularly suitable for applications with sensitive electronics and harmful gas concentrations in the ppb range up to a maximum of 3 ppm. Measurement is carried out by copper and silver sensors. These record the corrosion rates for the respective metals, as well as temperature, relative humidity and differential pressure in the room.

Current measured values and their history can be displayed in real time on the large color display using a curve diagram. Via LAN, WLAN and Bluetooth, the data can be optionally transmitted to a PC and smartphone or to the control room. The data history enables the convenient evaluation of data over a period of up to

18 months. Notes can also be linked to individual values. If the measurement results exceed specified limits, the device sounds an alarm. In this way, you always have an overview of harmful gas concentrations — and can recognize in good time when there is a need for action.







Color display

ChemWatch slide-in modules

ChemWatch connectors

E.FFECT: DIGITALLY OPTIMIZED

IMPROVE THE EFFICIENCY OF SUPPLY AIR FILTRATION

Electronic Freudenberg Filter Efficiency Calculation Tool, or e.FFECT for short. This is the name of the software tool we use to offer our customers customized supply air filtration systems. The benefits are clear: the more precisely a filter system is adapted to the respective plant and environment, the more efficient and safe it is and the more efficiently and economically it can be operated.

e.FFECT is a unique software tool that allows easy analysis of the performance of filter systems with up to four stages connected in series. An algorithm evaluates filter systems based on their capacity to filter particulate matter. The software can be used in four areas: intake or supply air filtration of gas turbines and compressors, industrial painting processes and the food and beverage industry, as well as in general air filtration. The system takes into account individual customer, plant and environmental data and calculates for the various filter stages the respective degrees of efficiency and the amount of dust that has been filtered out. The result is

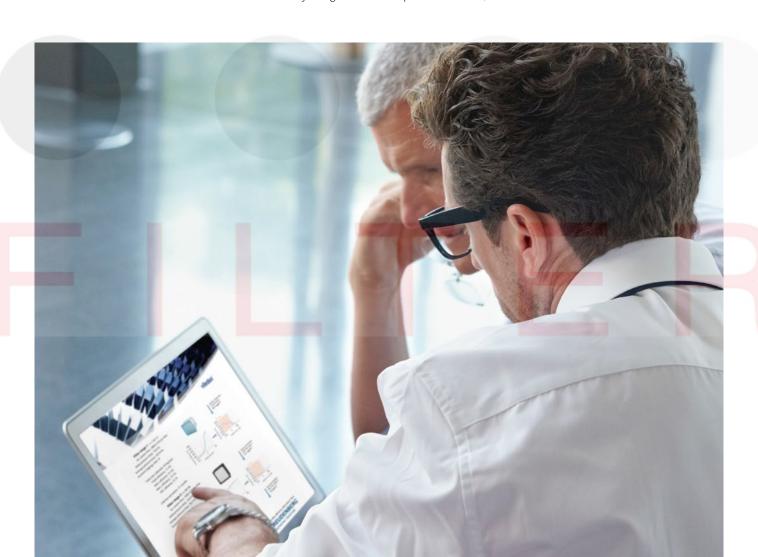
an optimized filter system that is perfectly adapted to the plant location and enables it to work more economically.

Because the filter systems are optimally adapted to the surrounding environment, they are more efficient and reduce both downtime and maintenance work. Once the calculation is complete, the final report provides the customer with a transparent overview. This is done by analysing several filter systems and pinpointing the differences. e.FFECT is used worldwide and is continuously being further developed. In the future,



customers learn even more about the lifespan of filter systems, for example when it comes to

estimating service life. The calculations are continuously adjusted to the individual segments and more filter stages are taken into account. Ultimately, the goal is always the same: to generate added value for customers through digitized service and optimal solutions for filter systems.





LONG SERVICE LIFE

DOUBLE-CYLINDRICAL FILTER CARTRIDGES OPTIMIZE PROCESSES AND PROMOTE SUSTAINABILITY

Particles in the intake air significantly influence the performance and cost-efficiency of gas turbines and turbo compressors. This can lead to corrosion or dust deposits on the turbine blades. GTS filter cartridges are one way of protecting plants from damage and unplanned downtime. These extend the service life of intake air filter systems under all climatic conditions. The double-cylindrical pulse-jet cartridges of the GTS series are used in gas turbines and turbo compressors in onshore and offshore applications. With their optimized self-cleaning properties, they maximize service life and minimize the impact of particles. They meet the strict requirements for clean air quality, especially under critical local conditions such as desert areas or tropical climates.

An innovative, high-strength synthetic microfiber fleece with a water-repellent coating ensures that the cartridge retains its excellent operating properties under all climatic conditions. The double-cylindrical geometry in conjunction with flow-optimised pleat spacing results in a particularly low pressure drop. Compared to conventional conical-cylindrical geometries, the cartridges are easier to clean using pulse-jet technology. In most cases, it is possible to change from conical-cylindrical to double-cylindrical geometries. To minimize corrosion and handling damage, the inner and outer support cage and base end caps are made from galvanized or stainless steel. The foamed PUR/EPDM seal ensures optimum sealing to the mounting plate. The two seals between the small and large cylinder serve as an ideal centering aid during installation.



The innovative packaging of interlocking pairs of cartridges halves the required storage space and the packaging volume. Together with the reduced transportation volumes, this helps our customers to make an important contribution to sustainable environmental protection.

ENSURING MAXIMUM HYGIENE

ECONOMICAL AND RELIABLE: THE NEW COMPACT POCKET FILTER SERIES T 90

Molds, bacteria and airborne contaminants endanger process reliability in the food and beverage industry. Effective and hygienic air filtration is therefore a top priority. The Compact Pocket Filter T 90 is the ideal solution to ensure reliable filtration from the first filter stage onwards.



The ISO ePM2,5 filter contains no glass fibers and is microbiologically inert. This means that it provides permanent protection against microorganisms and contamination in particularly sensitive production and packaging areas. Robust and moisture-resistant, it also ensures highly economical filtration. With their innovative media technology, T90 Compact Pocket Filters are used for supply, exhaust and recirculation air filtration in ventilation systems in the food and beverage industry.

The Compact T90 series is characterized by its customary robustness, which enables not only high load capacity but also low pressure drops at high levels of efficiency. The optimized high-performance filter medium made of tearresistant synthetic-organic fibers gives the bags their unique inherent rigidity. High dust holding capacity and excellent moisture resistance ensure that the filters have a long service life and are therefore highly economical.

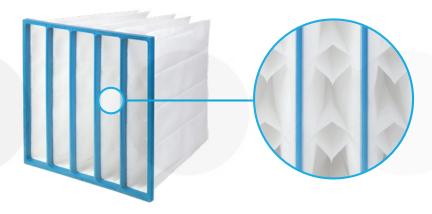
Ask to see our food-safe certificates. We will be happy to advise you on how to use effective air filtration to minimize sources of contamination.



www.freudenberg-filter.com/en/ world-of-industrial/food-andbeverage

Benefits at a glance

- Durable, moisture-resistant filter media make the T90 the ideal filter for the food and beverage industry
- Contains no glass fibers and is thus ideally suited for use in the process air supply and ventilation of sensitive food production areas.







MODULAR "CLIP-ON" SYSTEM

ADDITIONAL FILTER STAGE WITHOUT MAJOR EFFORT

Viledon® modular filter systems are used in the supply, exhaust and recirculation filtration of ventilation systems. Thanks to the innovative "clip-on" plug-in system, different filter types can be combined as modules in different ways to achieve maximum performance. The basis filters are supplied with connecting pins (RB types).



Two filters connected using the "clip-on" system.

THESE FILTERS CAN BE FLEXIBLY COMBINED WITH EACH OTHER:

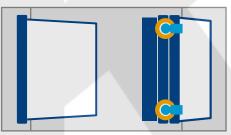


UPGRADE YOUR SYSTEM

1st filter stage 2nd filter stage with pocket filter with MaxiPleat

EXAMPLE FOR A TWO-STAGE FILTER SYSTEM

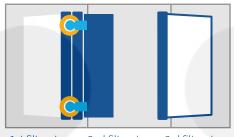
- Expansion by one filter stage is often not possible for reasons of space.
- The "clip-on" filter system enables a space-saving upgrade where space is limited.
- This saves costs during redesign because less space is required.



1st filter stage 2nd filter stage 3rd filter stage with pocket filter with MaxiPleat with NanoPleat (reverse) (pin)

EXAMPLE 1: UPGRADE FROM TWO- TO THREE-STAGE FILTER SYSTEM WITH "CLIP-ON" IN THE 2ND FILTER STAGE

- "Two in One": upgrading the system without modification. If space is limited, an additional filter stage can be added.
- · Easy filter change.
- Highest purity by upgrading to EPA level / ultra-fine filter stage.



1st filter stage 2nd filter stage 3rd filter stage with hydroMaxx with MaxiPleat with eMaxx (reverse) (pin)

EXAMPLE 2: UPGRADE FROM TWO- TO THREE-STAGE FILTER SYSTEM WITH "CLIP-ON" IN THE 1ST FILTER STAGE

- Improved protection against moisture from outside with coalescer prefilter.
- · Easy filter change.
- Ideal protection against corrosion and deposits is provided by a combination of hydroMaxx coalescer and MaxiPleat cassette filters.
- "Two in One": upgrading the system without modification. If space is limited, an additional filter stage can be added.

Note:

- For installation, the base filter with black connecting pins is inserted into the existing mounting system.
- The "clip-on" filter can be attached to the built-in base filter.
- The connection pins anchored in the base filter can no longer be removed. The attached prefilter can be removed and replaced.
- The hydroMaxx or hydroPack can be installed on a pocket filter using an adapter (Art. No. 53541191).



If you would like to learn more about our "clip-on" system, simply scan the QR code and watch the video on our YouTube channel.

If you have any questions about possible combinations, please contact us. Our service team will be happy to advise you.



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CLOSER TO REALITY

ISO 16890 ENABLES THE IDEAL FILTER SOLUTION

Since 2018, ISO 16890 has been the sole internationally authoritative test standard for the classification of air filters. As a result, the performance evaluation of all filters has become more transparent and realistic. When planning or re-equipping air filter systems, it is easier to determine and select the ideal solution.

With the new ISO 16890 standard, separation efficiencies are determined over a wide particle spectrum using the four dust classes ISO ePM10, ePM2,5, ePM1 and ISO coarse. A filter is classified in the respective group as soon as it succeeds in separating at least 50 percent of the corresponding particle size range. Separation efficiency is specified to the nearest 5 percent – such as for example with an ISO ePM1 70% filter. In this way, filter performance is immediately visible. The more transparent characteristics facilitate the calculation and assembly of multi-stage filter systems. At the same time, system-specific requirements can be met with greater precision.



Simply scan the QR code to find out more about the ISO 16890 test standard!

GROUP CLASSIFICATION TO SEPARATION EFFICIENCY

ISO coarse	< 50 percent of the PM ₁₀ particle fraction
ISO ePM10	≥ 50 percent of the PM ₁₀ particle fraction
ISO ePM2,5	≥ 50 percent of the PM _{2,5} particle fraction
ISO ePM1	≥50 percent of the PM ₁ particle fraction

Not all particulates are the same

Particulate matter has very different sizes and origins. Natural sources include pollens, spores and dusts from erosion processes. In general, these natural particles have a relatively large diameter. The smaller particulates are much more dangerous for humans and machines because they are more difficult to filter out of



 $0.1\,\mu m$

THE LOCATION DETERMINES THE CHOICE OF FILTER

The annual mean values of the particulate matter classes PM_{10} and $PM_{2,5}$ serve as a good orientation for particulate matter pollution at the respective location. These are collected by environmental authorities and are easily accessible. Four typical regions for the rough classification of particulate pollution are:





Rural areas

In rural areas, the air is mainly polluted by natural particles such as pollens, spores or erosion dusts. Reliable ISO ePM10 filters are capable of removing most of the particles.

 PM_1

PM₂₅



Urban areas

In conurbations, particulate matter is mainly composed of industrial emissions, diesel soot and other combustion products. For this reason, ISO ePM2,5 and ISO ePM1 filters play an important role.



the air. These particles are generated by motor vehicle traffic, industrial emissions, building

heating systems and agriculture. Particulate

matter values and the composition of the par-

ticulates vary from place to place. An optimal filtration solution is thus always adapted to the

local conditions.

PM_{2,5}





Coastal areas

Spray mist with a high salt content endangers plants located near the coast. To prevent corrosion, both dust and salt particles need to be reliably filtered out of the air.





Desert regions

In dry locations close to the desert, the air transports large quantities of sand and dust particles of the PM_{25} and PM_{10} fractions.

CONTINUED PAGE 22 >

Particle size 50 μm

ORIENT YOURSELF IN THE FUTURE ON THE RECOMMENDATIONS BASED ON EUROVENT 4/23 (2018)

Depending on the existing outside air conditions (ODA categories "Outdoor Air" according to EN 16798-3) and the requirements on supply air quality (SUP categories "Supply Air" according to EN 16798-3), EURO-VENT 4/23 gives suggestions for selecting suitable air filters with corresponding minimum separation performance for the particulate matter fractions $\rm ePM_1$, $\rm ePM_{2.5}$ or $\rm ePM_{10}$. The values given here describe the required overall efficiency for the respective particulate matter fraction, regardless of whether it concerns single-stage or multi-stage filtration.

An example of this is a production area without special hygiene requirements in the automotive industry (SUP 4), where outside air conditions have increased particulate matter pollution (ODA 2). The recommendation is to use air filters in the supply air system whose total efficiency for PM_{10} is at least 80%.

Our experts will be pleased to advise you and use e.FFECT to calculate which filter solution will achieve this goal.

						SUPPLY AIR		
				SUP1*	SUP2*	SUP3**	SUP4	SUP5
	OUTDOOR AIR			MEDIUM	BASIC			
				PM _{2,5} ≤ 2.5	PM _{2,5} ≤ 5	PM _{2,5} ≤ 7.5	PM _{2,5} ≤ 10	PM _{2,5} ≤ 15
				PM ₁₀ ≤ 5	$PM_{10} \le 10$	PM ₁₀ ≤15	PM ₁₀ ≤ 20	PM ₁₀ ≤ 30
CATE	GORY	PM _{2,5}	PM ₁₀	ePM ₁	ePM ₁	ePM _{2,5}	ePM ₁₀	ePM ₁₀
CATE ↑	ODA 1	PM _{2,5} ≤ 10	PM ₁₀ ≤ 20	ePM ₁	ePM ₁	ePM _{2,5}	еРМ₁₀	еРМ ₁₀

Recommended min. ePM $_{x}$ filtration efficiencies depending on ODA and SUP category. Annual mean PM $_{v}$ values in $\mu g/m^{3}$

- * Minimum filtration requirements ISO ePM1 50% refer to a final filter stage
- ** Minimum filtration requirements ISO ePM2,5 50% refer to a final filter stage



SUP1: Applications with high hygiene requirements e.g. hospitals, pharmacy, electronics and optical industry, supply air for cleanrooms, food & beverage (zones H).



SUP2: Applications with medium hygiene requirements e.g. in the production of food and beverage (zones M).



SUP3: Applications with normal hygiene requirements, e.g. in the production of food and beverage (zones B).



SUP4: Applications without hygiene requirements e.g. production areas in the automotive industry.



SUP5: Production areas in heavy industry e.g. steel mills, smelters, (laser) welding plants.



A QUESTION OF CLASS

EUROVENT 4/21 ENSURES TRANSPARENCY IN ENERGY CONSUMPTION

EUROVENT benefits at a glance

- Clear division of air filters into energy efficiency classes.
- Assurance that the products are manufactured in accordance with the design specifications and that the energy costs are precisely specified.
- Fair competition for filter manufacturers through equal conditions and comparable data.
- Greater trust between manufacturers and end users enhances the image and integrity of the industry.
- Uniform laboratory test procedure (predefined volume flow, ASHRAF test dust, etc.)
- Representative energy consumption through averaged pressure difference.
- Information on the energy behavior of the filter during an operating period of one year.

+

Performance-related classification

To save energy in HVAC systems, retrofitting or the use of frequency-controlled fans with high efficiency are common measures. The use of energy-efficient air filters, in contrast, is a comparatively simple and effective method of significantly reducing energy costs.

Some years ago, experts from Freudenberg Filtration Technologies developed their own energy efficiency classification system. Building on this work, the European Association of Ventilation and Drying Equipment Manufacturers EUROVENT developed a European energy efficiency classification system for air filters. This is described in EUROVENT Directive 4/21. EUROVENT certifies performance data of products for air and refrigeration technology according to European and international standards. Class A stands for very good energy efficiency values, class E for very poor ones. This makes it easier for users to find the right product for their needs. Since ISO 16890 (see pages 20 to 22) became the sole internationally applicable test standard for classifying air filters in mid-2018, the EUROVENT directive has been amended accordingly.

LIQUID FILTRATION

INDIVIDUALLY TAILORED PRODUCT PORTFOLIO

With high-quality filter media, we ensure the highest purity and reliability in liquid filtration. Our Viledon® brand sets global standards in quality and variety. We develop solutions individually tailored to the needs of filter and membrane manufacturers. Examples include coolant/lubricant, oil, fuel, beverage, food, blood plasma, pool and spa filtration. In addition, Viledon® nonwovens are important components of various types of filter cartridges.



COOLANT AND LUBRICANT

Specifically developed for belt filters, Viledon® cooltexx nonwovens are tailored to the various requirements of preparing industrial process fluids. They offer the perfect combination of efficiency, versatility and maximum purity.



OIL, UREA AND FUEL

High-quality Viledon® pluratexx filter media enable reliable removal of dirt particles, thereby safeguarding engine function and oil quality. This guarantees the economical operation of the vehicle.



MEMBRANES AND CARTRIDGES

Whether for flat membranes, tubular modules or filter cartridges, our Viledon® novatexx range offers high-quality nonwovens for the manufacture of filtration membranes for a wide variety of filtration and separation tasks.



Above all, in hygienic areas such as food and beverage filtration, producers need special filter media that meet the various requirement profiles and the highest standards – this is where Viledon® nutritexx filter media come into their own.



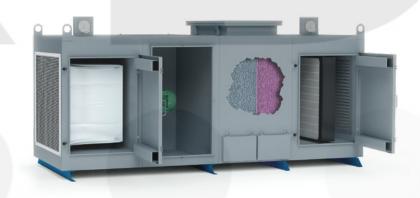


EVERYTHING FROM A SINGLE SOURCE

COMPLETE AIR FILTER SYSTEMS, COMPREHENSIVE SERVICE

The key to an energy-efficient ventilation system with hygienically clean air lies in customer-specific planning combined with comprehensive maintenance service.

You get all this from a single supplier. Freudenberg Filtration Technologies combines a comprehensive range of reliable and energy-efficient filtration solutions with technical development and installation expertise for complete industrial filtration systems: whether air, water or gas phase.



OUR ENGINEERING PORTFOLIO AT A GLANCE

CONSTRUCTION OPERATIONAL SERVICE AND SUPPORT 01 MODIFICATION / NEW CONSTRUCTION 02 VILEDON FILTERS & SPARE PARTS High-quality Viledon® filters Comprehensive status analysis Complete cost analysis Complete spectrum of spare parts 3D CAD models for installing the concept 03 COMPREHENSIVE SERVICE SUPPORT Tailor-made end-to-end solutions Repair or exchange concepts Standardized modular filter system components Inspection Large to small turnkey plants Measurements Final on-site inspections Maintenance programs Close coordination with our customers 03 TRAINING OF KEY PERSONNEL Wide range of training courses

Our system solutions are combined with an extensive service program. In this way, we ensure optimum efficiency for our customers. This includes an on-site status analysis, consultation, design of filter installations, preparation of quotations with 3D CAD drawings, profitability analyses, order processing, documentation, instructions and after-sales support.

HIGHEST STANDARDS IN FOCUS

CERTIFIED QUALITY DELIVERS GREATER PERFORMANCE

Freudenberg Filtration Technologies is synonymous with top quality. For you as our customers, this means greater safety in daily use. Our consistent commitment to the highest standards is reflected in the wide variety of our certifications and quality improvement initiatives. They create security and trust, and are proof of high performance, top reliability and dependable quality.



ISO 9001





We are particularly proud of the continuous improvements we have been making for many years. These extend from quality, occupational safety and environmental protection to health protection and have been achieved thanks to our certified, comprehensive, integral management system. We not only set standards with our products and filtration solutions. Through our trailblazing participation in relevant committees and professional associations, we are helping to drive filtration technology forward at this level. The latest example is our contribution to defining the new ISO 16890 standard for the evaluation and classification of air filters.

We are committed to strict internal quality criteria. We are certified according to DIN EN ISO 9001. Our management system is based on ISO/TS 16949 (requirements of the automotive industry), DIN EN ISO 14001 (environmental management) and OSHAS 18001 (occupational health and safety).

Nothing left to chance

Six Sigma is an integral part of our corporate culture. In our Filtration Science Lab, we ensure the quality of our filters with particularly stringent testing procedures.

Not all filters deliver what their manufacturers promise. Product information often contains performance features that are not achieved in reality. You can protect yourself against such problems. As an independent institution, the EUROVENT Certification Company has developed an international certification program for fine filters. This gives the operator security. Our Viledon® filters are tested and classified according to the most recent standard.

















THE VILEDON SERVICE PROGRAM

A PARTNERSHIP FOR YOUR LONG-TERM SUCCESS

As well as high-quality filter solutions, our portfolio also includes a comprehensive range of services. In this way, we help our customers to make optimum use of filter systems in every respect.

SERVICES AT A GLANCE

- Personal, expert on-site consultation
 Our network of filtration consultants includes numerous subsidiaries and distribution partners worldwide.
- Reliable delivery service
 Security of supply is an essential component of our range of services.
- More than 10,000 articles in a comprehensive filter program
 You will find the right product for every requirement in our range.
- Tailor-made filtration solutions on request Individual solutions lead to better results.
 We work with you to develop them.
- Accessories
 A wide range of extras support the effective use of our high-quality filters.
- Viledon® Academy
 Through training courses and guided tours, we pass on practical insights and theoretical background knowledge on all aspects of filtration.
- Filter measurement technology
 Using state-of-the-art technology, we test our filters according to standardized performance tests, national and international norms. In addition, we carry out more stringent testing in our own special tests.

The direct route to your Viledon® service team Weinheim (Germany)
Our helpful and reliable contact staff are available to assist you from 08:00 to 17:00 (CET):



+49 (0) 6201 80-6264



+49 (0) 6201 88-6299



viledon@freudenberg-filter.com

To find the customer service contact details for your region, please visit our website. Our website offers you the easiest possible access to current product information, technical data sheets and much more about filtration.



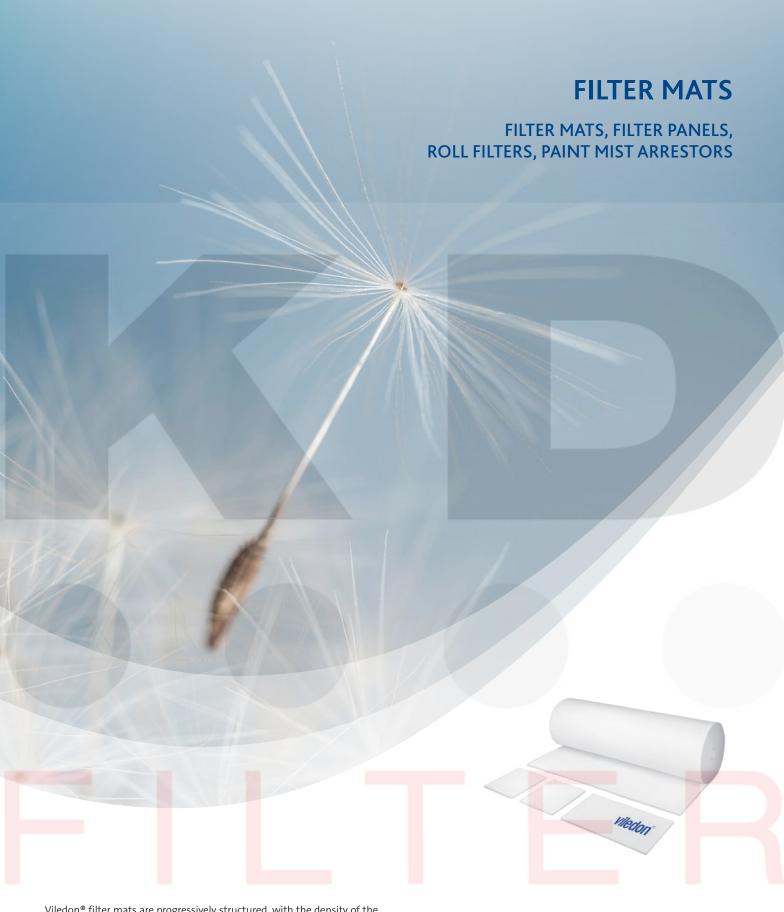
www.freudenberg-filter.com



If you would like to contact us directly, simply scan the QR code and send us an email.

Our product portfolio includes high-quality accessories, e.g.:

- Mounting frame made of stainless steel or galvanized sheet steel with force-fit spring system and rubber plug-in seal
- Differential pressure gauges: indicators and switchgear for simple to the most demanding applications
- Rotary nozzle systems for effective cleaning of filter cartridges
- Pressure surge reflectors for optimizing pulse-jet cleaning
- Accessories for HEPA filters: hood modules and ceiling air outlets



Viledon® filter mats are progressively structured, with the density of the fiber layers increasing towards the clean air side. This ensures an optimum in terms of defined filter performance and dust holding capacity, coupled with a low pressure drop. All filter mats are produced using an eco-friendly formula. We offer a range of variants for use in general ventilation and air-conditioning technology as well as for the painting industry.

Simply scan the QR code and find out more about filter mats!



FILTER MATS | COARSE DUST



P15 and T3/290 S: Polyolefin fibers; PSB: Polyester fibers
250 Pa
up to 100 °C
100 % rel. hum.
F1 acc. to DIN 53438
1 roll

PSB series

Application

The PSB filter mats are used for intake air filtration in air-conditioning systems of all kinds, particularly for coarse dust arrestance or as a prefilter stage.

The PSB range comprises of

- PSB/145 S
- PSB/275 S
- PSB/290 S

Features and benefits of the PSB series

- By virtue of their high dust holding capacity and their long lifetime, PSB filter mats are exceptionally cost-efficient.
- All types in this series prove their worth in application categories where stable arrestance performance is required when coping with a large dust loading and a high air flow rate.
- When used in exhaust air filtration, one of the advantages of the PSB series is that arrestance efficiency and dust holding capacity are ideally matched to each other.

P15 series

Application

All types in this series can cope with heavy-duty operation and are suitable for filtration in air-conditioning systems of all kinds.

The P15 series features the familiar Viledon® filter mats

- P15/150 S
- P15/350 S
- P15/500 S

Features and benefits of the P15 series

- High arrestance efficiency right from the start over the entire operational lifetime, for maximized operational dependability.
- The material's high mechanical strength ensures good dimensional stability, even when subjected to large air volumes, over the entire operational lifetime.
- Thanks to the polyolefin fibers used, P15 filter mats are largely resistant to chemicals such as solvents, acids and lyes. They must be protected against continuous UV irradiation.
- The filter mats can be cleaned by careful washing, beating or spraying; even after being washed, they remain dimensionally stable and retain their technical filtering characteristics. Our eco-friendly series of filters is much in demand among users prioritizing waste avoidance and filtration cost savings.

T3/290 S

This ultra-efficient G4 filter mat is suitable for filtration in confined spaces, e.g. in control cabinets or electrical equipment. Thanks to the use of polyolefin fibers, it is highly resistant to chemicals, and hydrophobic.

Delivery notes

All the filter mats we supply are airtight packed as roll goods in standard dimensions in plastic sheets. Other dimensions are available as roll goods or blanks.

Special shapes like die-cuts and <mark>bags,</mark> welded or sewn, are <mark>avail</mark>able on request.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L) [mm/m]	THICKNESS AP- PROX. [mm]	WEIGHT PER UNIT AREA APPROX. [g/m³]	NOMINAL MEDIA VELOCITY [m/s]	DUST HOLDING CAPACITY [g/m³]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]
PSB/145 S 40/2000	7833647	2,000/40	10	120	2	500	22	G2	ISO coarse 30%	30
P15/150 S 40/2000	8039227	2,000/40	8	100	2	600	30	G2	ISO coarse 30%	33
PSB/275 S 30/2000	53375688	2,000/30	15	180	1.5	700	22	G3	ISO coarse 45%	45
P15/350 S 30/2000	8039427	2,000/30	14	200	1.5	700	30	G3	ISO coarse 55%	57
PSB/290 S 20/2000	8019407	2,000/20	20	300	1	750	22	G4	ISO coarse 60%	62
P15/500 S 20/2000	8040248	2,000/20	20	350	1	600	30	G4	ISO coarse 75%	75
T3/290 S 40/2000	8105365	2,000/40	8	200	0.25	250	14	G4	ISO coarse 90%	90

Subject to technical char



FILTER MATS | FINE DUST

SPECIFICATIONS						
Filter medium	Polyester fibers					
Recommended final pressure drop	450 Pa					
Thermal stability	up to 100 °C; PA/ProfAir: Briefly up to 120 °C					
Moisture resistance	up to 100% rel. hum.					
Migration test class	SO					
Fire class	F1 acc. to DIN 53438					



A3/300 S

Application

The A3/300 S filter mat is designed primarily for high-quality final filtration in air-conditioning devices and systems, and as prefilters in multi stage intake air systems.

Features and benefits

- The special smoothing of the clean air side increases the rigidity of the filter mat, rendering it sturdy and installation-friendly.
- By virtue of its very good arrestance performance, the A3/300 S filter
 mat can be used universally in all applications in which high-quality
 filtration in the fine dust range is demanded in order to protect both
 people and machinery.

ProfAir

Application

ProfAir is a fine filter for final filtration of intake air in repair paint-spray booths. The filter mat ensures high arrestance performance for particles > 10 µm and thus provides a high degree of protection against paintwork damage.

Delivery notes

Subject to technical changes

All the filter mats we supply are airtight packed as roll goods in standard dimensions in plastic sheets. Other dimensions available on rolls or as blanks.

Special shapes like die-cuts and bags, welded or sewn, are available on request.

PA/500-10, PA/560 G-10 and PA-5 micron

Application

The PA/500-10 and PA/5560 G-10 filter mats, acknowledged as the standard in surface treatment technology, are used for final filtration of the intake air in paint shops und paint-spray booths. The principal application category for the PA-5 micron filter mat is final filtration of the intake air in paint-spray processes with particularly stringent requirements for air purity.

Features and benefits of the PA series

- PA/500-10 and PA/560 G-10 assure practically 100% arrestance of particles >10 μ m, which are able to cause visually perceptible surface blemishes. This means, maximized security against paintwork defects.
- With practically 100 % arrestance of particles > 5 μ m, the PA-5 micron filter mat meets even the most stringent of requirements in surface treatment technology.
- The adherent surface of each individual fiber in the filter media can be relied upon to retain already-arrested particles over the entire operational lifetime.
- PA/560 G-10 and PA-5 micron additionally possess a reinforcing mesh fabric on the clean air side, which increases the filter mat's stability and reduces the risk being damaged during installation.
- · All PA filter mats are resistant to solvent vapours and contain no silicone.

Note

PA-5 micron and PA / 560 are available in versions to be used in explosive zones. Please get informed in detail about the current certificates of conformity.

EN 779:2012 ISO 16890

	MBER	SI	APPROX.	ER UNIT SOX.	MEDIA	DING	SSURE	s 2*		PARTICUL	ATE MATTER [%]	EFFICIENCY	PARTICLE
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L) [mm/m]	THICKNESS [mm]	WEIGHT PE AREA APPR([g/m²]	NOMINAL A VELOCITY [m/s]	DUST HOLD CAPACITY [g/m²]	INITIAL PRE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012*	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PA SIZE [µm]
A3/300 S 20/2000	8422288	2,000/20	20	300	0.25-0.5	550	65	M 5	ISO ePM10 50%	2	10	51	10
ProfAir N 20 / 2000	53350549	2,000/20	23	545	0.25-0.5	550	30	M 5	ISO ePM10 55%	11	17	55	10
PA/500-10 20/2000	7802106	2,000/20	25	500	0.25-0.5	680	25	M 5	ISO ePM10 50%	10	15	50	10
PA/560 G-10 20/1600	53253198	1,600/20	25	580	0.25-0.5	590	30	M 5	ISO ePM10 55%	11	17	55	10
PA/560 G-10 20/2000	7802206	2,000/20	25	580	0.25-0.5	590	30	M 5	ISO ePM10 55%	11	17	55	10
PA/560 G-10 22/1600	8887232	1,600/22	25	580	0.25-0.5	590	30	M 5	ISO ePM10 55%	11	17	55	10
PA/560 G-10 22/2000	8238130	2,000/22	25	580	0.25-0.5	590	30	M 5	ISO ePM10 55%	11	17	55	10
PA-5 micron BK 20/2000	53296957	2,000/20	25	650	0.25-0.5	470	55	M6	ISO ePM10 65%	7	19	65	5

* rated at nominal media velocity 0.25 m/s

FILTER PANELS





SPECIFICATIONS	
Filter medium	Various Viledon® filter media available
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Polyurethane

Application

The filter panels are used for intake air filtration in air-conditioning systems of all kinds, particularly for coarse dust arrestance or as prefilter stage. Application areas include e.g.

- · Heavy industry: cement plants, steel mills,
- · Automotive: paint booths,
- · Food industry,
- · Petrochemical industry.

Filter panels are used to protect the climate and ventilation systems, control panels and heating systems.

Features and benefits

- Large range of high quality and efficient Viledon® filter media.
- · Extremely rigid.
- Non-corroding and moisture-resistant up to 100% relative humidity.
- Easy installation, no extra clamping necessary.
- · Self-sealing through overlapping.

Delivery notes

Filter panels in a washable version are available upon request.

	_					EN 779:2012	ISO 16890	
ARTICLE	ARTICLE NUMBER	FILTER MEDIUM	DIMENSIONS (W×L) [mm]	NOMINAL VOLUME FLOW [m'/h]	PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]
LH 111 MIT P15/150 S 610/610	53263665	P15/150 S	610×610	2,600	25	G2	ISO coarse 30%	33
LH 101 MIT PSB/290 S 610/610	53263659	PSB 290 S	610×610	1,300	35	G 4	ISO coarse 60%	62
LH 101 MIT PSB/290 S 700/500	53263662	PSB 290 S	700×500	1,250	35	G4	ISO coarse 60%	62
LH 101 MIT PSB/290 S 625/500	53263658	PSB 290 S	625×500	1,100	35	G4	ISO coarse 60%	62
LH 101 MIT PSB/290 S 500/500	53263660	PSB 290 S	500×500	900	35	G4	ISO coarse 60%	62
LH 101 MIT PSB/290 S 500/400	53263661	PSB 290 S	500×400	720	35	G4	ISO coarse 60%	62
LH 103 MIT P15/500 S 610/610	53253599	P15/500S	610×610	1,300	35	G4	ISO coarse 75%	75
LH 103 MIT P15/500 S 500/500	53000301	P15/500 S	500×500	900	35	G4	ISO coarse 75%	75
LH 103 MIT PA/560 G-10 500/500	53430605	PA/560 G-10	500×500	450	55	M 5	ISO ePM10 55%	90

Subject to technical change

ROLL FILTERS | COARSE DUST

SPECIFICATIONS						
Filter medium	Polyester fibers					
Recommended final pressure drop	160 Pa					
Initial pressure drop	50 Pa at 2.5 m/s					
Dust holding capacity	400 g/m ²					
Gravimetric efficiency	80% (EN 779)					
Weight	250 g/m ²					



Application

The R/260 filter mat is used for filtration in roll filter equipment.

Features and benefits

The medium used is a high-performance nonwoven made of polyester fibers with thermal fiber bonding, i.e. without any bonding agents. The filter medium is progressively structured, featuring fiber layers with different fiber diameters, arranged one after the other in such a way that the density of the fiber layers increases towards the clean air side. This ensures an optimum in terms of defined filter performance and dust holding capacity. Result: longer operational lifetime of the filter. A scrim increases the mechanical strength.

Fire behaviour

Viledon® filter media meet the stringent requirements of fire class F1 in conformity with DIN 53438, and are thus self-extinguishing.

Delivery notes

Available on a cardboard core or a metal spool. The roll goods R/260 (40 running meters) are manufactured in three different widths: 2,200 mm, 1,900 mm and 1,600 mm.

FN:	779:2012	ISO	16890

ARTICLE	ARTICLE NUMBER	THICKNESS APPROX. [mm]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]
LH R 260/810	53329934	8	G3	ISO coarse 40%	43
LH R 260/838	53329914	8	G3	ISO coarse 40%	43
LH R 260/1110	53329936	8	G3	ISO coarse 40%	43
LH R 260/1143	53329915	8	G3	ISO coarse 40%	43
LH R 260/1250	53361322	8	G3	ISO coarse 40%	43
LH R 260/1410	53329938	8	G3	ISO coarse 40%	43
LH R 260/1448	53329916	8	G3	ISO coarse 40%	43
LH R 260/1710	53329940	8	G3	ISO coarse 40%	43
LH R 260/1753	53329917	8	G3	ISO coarse 40%	43
LH R 260/2010	53355829	8	G3	ISO coarse 40%	43
LH R 260/2058	53329918	8	G3	ISO coarse 40%	43

ubject to technical changes.

www.freudenberg-filter.com

PAINT MIST ARRESTORS, GLASS-FIBER



SPECIFICATIONS	
Fillter medium	Glass-fibers
Thermal stability	up to at least 80 °C
Fire behaviour	non-flammable acc. to DIN 4102
Nominal media velocity	0.7-1.75 m/s

Application

High-quality filtration for paint-spray booth exhaust air. The PS 100 type, thanks to its higher arrestance efficiency is particularly well-suited for use in installations with heat recovery systems. The Paint Stop Hydro PSH 75 filter mat is ideally suited for arresting water-based paint.

During the intended use as a paint mist arrestor, the safety regulations for avoiding self-ignition must be complied with.

Features and benefits PS 50 / PS 100

• Dimensionally elastic glass-fiber medium with a progressive structure, i.e. openly structured face side (green) and increasing fiber density towards the clean air side (white).

Delivery notes

PS 50 \mid PS 100 and PSH 75 are available on request in all commonly encountered roll lengths and widths, and as rectangular blanks.

- High dimensional stability even when loaded thanks to low compressibility, which means the entire material depth is used for storing paint
- Non-flammable in conformity with DIN 4102 and thermally stable up to 80 $^{\circ}\text{C}.$

Features and benefits of the PSH 75 Paint Stop Hydro

- A shape-elastic high performance glass-fiber medium is used.
- Thanks to its fine, elastic material structure, the surface is prevented from being prematurely clogged.
- Enhanced material rigidity thanks to special finish.
- The paint mist arrestor PSH 75 scores excellently in terms of increased paint storage capacity for hydro-paints, with concomitantly long useful lifetime.

ARTICLE	DIMENSIONS (W×.l) [mm/m]	THICKNESS APPROX. [mm]	WEIGHT PER UNIT AREA APPROX. [g/m³]	INITIAL PRESSURE DROP [Pa]	PAINT MIST ARRESTANCE EFFICIENCY [%]	PAINT HOLDING CAPACITY CAT 80 PA AND 0.7 M/S) [g/m³]
PS 50 20/1000	1,000/20	50-65	220-240	40	90-95	3,500-4,700
PS 50 20/1524	1,524/20	50-65	220-240	40	90-95	3,500-4,700
PS 50 20/2000	2,000/20	50-65	220-240	40	90-95	3,500-4,700
PS 50 50/500	500/50	50-65	220-240	40	90-95	3,500-4,700
PS 50 50/1000	1,000/50	50-65	220-240	40	90-95	3,500- <mark>4,700</mark>
PS 50 50/1250	1,250/50	50-65	220-240	40	90-95	3,500- <mark>4,70</mark> 0
PS 50 50/1524	1,524/50	50-65	220-240	40	90-95	3,500 <mark>-4,70</mark> 0
PS 50 100/500	500/100	50-65	220-240	40	90-95	3,500- <mark>4,70</mark> 0
PS 50 100/610	610/100	50-65	220-240	40	90-95	3,500- <mark>4,700</mark>
PS 50 100/660	660/100	50-65	220-240	40	90-95	3,500- <mark>4,70</mark> 0
PS 50 100/760	760/100	50-65	220-240	40	90-95	3,500 <mark>-4,70</mark> 0
PS 50 100/860	860/100	50-65	220-240	40	90-95	3,500- <mark>4,70</mark> 0
PS 50 100/910	910/100	50-65	220-240	40	90-95	3,500-4,700
PS 50 100/1000	1,000/100	50-65	220-240	40	90-95	3,500-4,700
PS 50 100/1250	1,250/100	50-65	220-240	40	90-95	3,500-4,700
PS 50 100/1524	1,524/100	50-65	220-240	40	90-95	3,500-4,700
PS 50 100/2000	2,000/100	50-65	220-240	40	90-95	3,500-4,700
PS 100 20/1000	1,000/20	100-120	320-350	60	95-98	3,900-5,050
PS 100 20/1524	1,524/20	100-120	320-350	60	95-98	3,900-5,050
PS 100 20/2000	2,000/20	100-120	320-350	60	95-98	3,900-5,050
PSH 75 20/1000	1,000/20	65-80	280-300	50	>98	>4,000

subject to technical changes.

PAINT MIST SEPARATORS, SYNTHETIC | PAINT POCKETS

SPECIFICATIONS	
Fillter medium	Polyester-fibers
Thermal stability	up to at least 80 °C
Nominal media velocity	0.5-1.75 m/s



The application

High-quality filtration for paint-spray cabin exhaust air.

The Paint Pocket floor filter mats are preferably used for paint mist separation in repair and paint-spray cabins with an exhaust air system.

The medium

The Paint Pockets are made from 100% synthetic raw materials. Premature blocking of the surface is prevented by the diamond-shaped, three-dimensional material structure. This structure doubles the filter area, thereby increasing the filter's capacity to absorb paint mist, while the built-in mesh makes the mats stable and tear-resistant. The fully synthetic paint mist separators are easy to dispose of and are 100% thermally recyclable.

The key features of Paint Pockets original

- The diamond-shaped surface structure increases service life by three to four times compared to glass paint separation mats.
- The high performance layer on the backside of the mats allows a greater efficiency in paint mist separation.
- This extends the service life of the downstream filter stages by up to 300%.

The key features of Paint Pockets green

- Special, cost-optimized version for repair cabins with no downstream filters.
- The three-dimensional material structure enables longer service life and replacement intervals along with reliable compliance with prescribed emission limits (3 mg/m 3).

Delivery notes

Subject to technical changes

Paint Pockets filter mats are available on request in all commonly encountered roll lengths and widths. Paint Pocket original can also be supplied as rectangular blanks.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m³]	THICKNESS APPROX. [mm]	FACE VELOCITY [m/s]	INITIAL PRESSURE DROP [Pa]	PAINT MIST ARRESTANCE EFFICIENCY [%]	RECOMMENDED FINAL PRESSURE DROP [Pa]	PAINT HOLDING CAPACITY [g/m²]
Paint Pockets original	500	30	0.5	15	> 99.5	250	30,000
Paint Pockets green	440	25	0.5	10	>99	250	25,000

www.freudenberg-filter.com 35

EDRIZZI SYSTEMS

PAINT MIST ARRESTORS



Made from fire retardant corrugated board, the patented edrizzi® paint mist separators have a capacity of up to 25 kg with a separation efficiency of up to 97%. The system saves both time and costs. The paint mist separators can be quickly replaced and disposed of at low cost in incineration plants. They complete our portfolio of multi-stage filter systems.

Simply scan the QR code and find out more about the edrizzi® system!



EDRIZZI SYSTEMS

PAINT MIST ARRESTORS I VARIO



SPECIFICATIONS	
Paint storage capacity	up to 25 kg
Arrestance for paint mist	up to 97 %Nominal air flow: 500 - 750 m³/h
Thermal stability	80 °C
Fire class	B1 according to DIN 4102 - very flame retardant
Fire class	F1 according to DIN 53438
Moisture resistance	up to 70% rel. hum.

Application

edrizzi® paint mist arrestors allow high-quality dry separation in spray booths. They are perfect as a prefilter in multistage filtration systems by Freudenberg Filtration Technologies.

Features and benefits

- The simple but innovative design of these patented paint mist arrestors provides paint shops with cost-effective, efficient dry separation with a high paint storage capacity.
- The handy boxes are made from fire-retardant corrugated cardboard.

 This guarantees a safe and stable application.
- The majority of the overspray is collected in the front third of the paint mist arrestor. The guidance systems deep inside ensure optimum arrestance efficiency and are designed not to become saturated too fast.
- edrizzi® paint mist arrestors reduce noise levels in the spraying area by 15 to 20 dB.
- · The dried paint can be disposed of cost-effectively.

Special features

There is a suitable edrizzi® paint mist arrestor for every type of paint and application:

- The edrizzi® Vario medium is the solution for the majority of surface materials.
- The edrizzi® Vario fine is used for applications in which the edrizzi®
 Vario medium reaches its limits in terms of arrestance efficiency.
 Application examples include high-rotation bells, very finely atomized solvent coatings and nano coatings.

The edrizzi® Vario coarse is the solution for applications in which paint cakes build up on the inlet side of the edrizzi® medium, preventing attainment of the maximum service life.

Not

When using the product for its intended purpose as a paint mist arrestor, it is necessary to comply with the safety regulations for avoiding self-ignition. The edrizzi® Vario is available in versions to be used in explosive zones. Please get informed in detail about the current certificates of conformity.

You can find assembly instructions on our YouTube channel

www

www.youtube.com/user/FreudenbergFilter

Delivery notes

edrizzi® paint mist arrestors are delivered unassembled in lots of 20 pieces, allowing cost-effective transport and storage. Inner and outer box are delivered separately.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	INITIAL PRESSURE DROP [Pa]	WEIGHT, EMPTY [kg]
edrizzi® Vario coarse	53534365 + 53534347	485×485×495	22	1.6
edrizzi® Vario medium	53534365 + 53534348	485×485×495	44	1.9
edrizzi® Vario fine	53534365 + 53534364	485×485×495	60	2.2
edrizzi® Vario S coarse	53534344 + 53534331	485×485×295	11	0.8
edrizzi® Vario S medium	53534344 + 53534332	485×485×295	42	1.1
edrizzi® Vario S fine	53534344 + 53534333	485×485×295	55	1.4
edrizzi® Vario mounting frame	53534366	500×500×466		
edrizzi® Vario S mounting frame	53534345	500×500×265		

EDRIZZI SYSTEMS

PAINT MIST ARRESTORS I VARIO HYDRO

SPECIFICATIONS	
Paint storage capacity	up to 25 kg
Arrestance for paint mist	up to 97 %
Nominal air flow	500-750 m³/h
Thermal stability	80 °C for the separation of hydro paints



Application

edrizzi® paint mist arrestors allow high-quality dry separation in spray booths. They are perfect as a prefilter in multistage filtration systems by Freudenberg Filtration Technologies.

Features and benefits

- The simple but innovative design of these patented paint mist arrestors provides paint shops with cost-effective, efficient dry separation with a high paint storage capacity.
- The handy boxes are made from wet strength paper. This guarantees a safe and stable application in areas with strong deviations in relative humidity and in case of intensive loading with water based paints.
- The majority of the overspray is collected in the front third of the paint mist arrestor. The guidance systems deep inside ensure optimum arrestance efficiency and are designed not to become saturated too fast.
- edrizzi® paint mist arrestors reduce noise levels in the spraying area by 15 to 20 dB.
- The dried paint can be disposed of cost-effectively.

Special features

There is a suitable edrizzi® paint mist arrestor for every type of paint and application:

- The edrizzi® Vario medium is the solution for the majority of surface materials.
- The edrizzi® Vario fine is used for applications in which the edrizzi®
 Vario medium reaches its limits in terms of arrestance efficiency.
 Application examples include high-rotation bells, very finely atomized solvent coatings and nano coatings.

The edrizzi® Vario coarse is the solution for applications in which paint cakes build up on the inlet side of the edrizzi® medium, preventing attainment of the maximum service life.

Note

When using the product for its intended purpose as a paint mist arrestor, it is necessary to comply with the safety regulations for avoiding self-ignition. The edrizzi® Vario is available in versions to be used in explosive zones. Please get informed in detail about the current certificates of conformity.

You can find assembly instructions on our YouTube channel

www

www.youtube.com/user/FreudenbergFilter

Delivery notes

Subject to technical changes

edrizzi® paint mist arrestors are delivered unassembled in lots of 20 pieces, allowing cost-effective transport and storage. Inner and outer box are delivered separately.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	INITIAL PRESS URE DROP [Pa]	WEIGHT, EMPTY [k8]
edrizzi® Vario hydro coarse	53537032 + 53537030	485×485×495	95	1.6
edrizzi® Vario hydro medium	53537032 + 53537031	485×485×495	185	1.9
edrizzi® Vario hydro fine	53537032 + 53537206	485×485×495	250	2.2
edrizzi® Vario S hydro coarse	53537029 + 53537024	485×485×295	33	0.8
edrizzi® Vario S hydro medium	53537029 + 53537026	485×485×295	120	1.1
edrizzi® Vario S hydro fine	53537029 + 53537028	485×485×295	175	1.4

FILTER CELLS

MP SERIES AND CPACK



Viledon® filter cells are versatile and can be used to achieve longer service life. For use in the pre-filtration of ventilation and air-conditioning systems to protect downstream fine filters and as edrizzi® after-filters to separate overspray.

Simply scan the QR code and find out more about filter cells!



FILTER CELLS

MP 45 | COARSE DUST



SPECIFICATIONS	
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.

Application

Filter cells are used for prefiltration in ventilation and air-conditioning units, and in intake air systems and lines, to extend the operational lifetimes of the downstream fine filters.

Almost all commercially available filter cells and filter mats can be replaced in the removable frame by the filter cells MP 45 (frame material cardboard) and MP 45 K (frame material plastic).

The MP 45 KTC filter cells can be used as prefilters for the Viledon® MaxiPleat filters, simply by clipping them on thus enabling another filter stage to be inserted without any structural modifications.

Features and benefits of the MP 45 KTC

- Four coupling holes (L) are provided in the frame corners of the clean air side. This means the prefilter can be simply clipped onto an already-installed MaxiPleat basic filter fitted with black connecting pins. The connecting pins anchored in the basic filter can no longer be detached. The MP 45 KTC prefilter, however, can easily be removed again and replaced. Even while the intake air system is still operating, the prefilter can be quickly and safely replaced.
- Velcro fastenings (KB) to the main filter increase the retention forces during operation. Additional metal brackets are available on request, which secure the filter in place when it is installed overhead.
- The entire filter element contains no metal, and is therefore non-corroding and fully incinerable.

Delivery notes

Customized dimensions and regionally divergent versions are available on request.

EN 779:2012

ARTICLE	ARTICLE NUMBER	FRAME	DIMENSIONS (W×H×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012
MP 45 0595x0595x48	53349216	Cardboard	595×595×48	1.1	3,400	75	G4
MP 45 K 0595x0595x48	53401206	Plastic	595×595×48	1.1	3,400	75	G4
MP 45 0595x0595x96	53307806	Cardboard	595×595×96	2.0	3,400	50	G4
MP 45 K 0595x0595x96	53408851	Plastic	595×595×96	2.0	3,400	50	G4
MP 45 KTC 0555x0555x092 LKB	53374950	Nonwoven	555×555×92	2.0	3,400	50	G4
MP 45 KTC 0555x0555x092 LD	53386678	Nonwoven	555×555×92	2.0	3,400	50	G4

FILTER CELLS

CPACK | COARSE DUST

SPECIFICATIONS	
Thermal stability	up to 70 °C
Moisture resistance	100 % rel. hum.



The Application

CPack AXM Panel Filters are ideally suited for use in potentially explosive atmospheres. Due to their low installation depth, CPack AXM filters are often used as secondary filters for edrizzi® which are used for the filtration of cabin exhaust air.

In addition to applications within the field of surface treatment, the filters also meet the highest requirements in gas turbines or in building ventilation. For this purpose, the variant CPack M without ATEX approval can be used.

The media and their characteristic features

- CPack filters consist of a synthetic nonwoven filter mat and a galvanized metal frame.
- The high-quality material structure enables optimal dust absorption with low pressure loss.
- \cdot CPack filters are corrosion and moisture resistant up to 100 % humidity. Temperature resistance is 100 $^{\circ}\text{C}$
- Viledon® CPack filters are available with a wide selection of Viledon® filter mats, allowing them to be tailored to meet existing process requirements. Further variants are possible on request.

- The pleat packs have a depth of 48 or 96 mm.
- The variants with header frames can be installed in commercially available mounting frames.
- CPack variants with recessed pleat package and a depth of 145 mm are specially designed for installation behind the edrizzi® paint mist separator. These CPack filters can be inserted together with the edrizzi® box in the same mounting frame.

The special features

Viledon® CPack AXM Panel Filters are ideally suited for use in potentially explosive atmospheres.

Not

CPack filter are available in versions to be used in explosive zones. Please get informed in detail about the current certificates of conformity.

Delivery notes

Customized dimensions and reg<mark>ional</mark>ly divergent versions are available on request.

EN 7	779:2012	2 ISC	168	390

ARTICLE	VERSION	DIMENSIONS (W×L×D) [mm]	FILTER MEDIUM	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER AREA [m²]	FILTER CLASS ACC. TO EN 779:2,012	CLASS TO ISO 16890
CPACK AXM 592x592x96 H0 P15/350	Head frame	592x592x96	P15/350 S	3,400	100	0.9	G3	ISO Coarse 45%
CPACK AXM 592x592x96 H0 P15/500	Head frame	592x592x96	P15/500 S	3,400	135	0.9	G 4	ISO Coarse 65%
CPACK AXM 592x592x96 H0 PSB/290	Head frame	592x592x96	PSB/290 S	3,400	110	0.9	G 4	ISO Coarse 55%
CPACK AXM 592x592x96 B0 P15/500	Box-Type	592x592x96	P15/500 S	3,400	125	1.0	G 4	ISO Coarse 65%
CPACK AXM 592x592x48 B0 P15/350	Box-Type	592x592x48	P15/350 S	3,400	70	0.5	G3	ISO Coarse 45%
CPACK AXM 592x592x48 B0 P15/500	Box-Type	592x592x48	P15/500 S	3,400	95	0.5	G 4	ISO Coarse 65%
CPACK AXM 592x592x145 R1 P15/500	secondary edrizzi® filter	485x485x145	P15/500 S	1,000	30	0.7	G 4	ISO Coarse 65%



Viledon® pocket filters are made from non-breaking synthetic-organic fibers and microfibers. The pockets are welded and foamed into the front frame in a leakproof configuration so as to provide maximized security against dust breakthrough. Their high cost-efficiency is rooted in low average pressure drops and optimized aerodynamics coupled with full utilization of the filtering area available.

Simply scan the QR code and find out more about pocket filters!



COMPACT | COARSE DUST



SPECIFICATIONS	
Filter medium	Polyester
Recommended final pressure drop	250 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Polyurethane
Fire class	F1 acc. to DIN 53438

Special features of all Compact coarse dust pocket filters

- Progressively structured high-performance nonwovens made from non-breaking synthetic-organic fibers.
- Low pressure difference and a high dust storage capacity guarantee a very long service life and high efficiency of the filter system.
- Free of glass-fibers
- Non-corroding materials
- Self-extinguishing according to DIN 53438 (fire class F1)
- Microbiologically inactive materials and the design meet all the criteria laid down in VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- High functional dependability thanks to the leakproof welded configuration of the filter pockets, foam-sealed into a robust PUR front frame.

592×592×650

- · Maintenance-free over the entire operating time.
- Leak-free aerodynamic spacers ensure an optimal flow through the pockets.

G 35

Application

The Compact G 35 series is used for supply, exhaust and recirculating air filtration in all kinds of ventilation systems, such as

- in industrial processes (metal processing, paper production, food and beverage, etc.),
- · for exhaust and recirculating air filtration in paint shops,
- for ventilating machine rooms and production areas,
- · as prefilters for turbomachinery.

Features and benefits

- The robust filter series for heavy coarse dust loadings, even at high air flow rates. The filters achieve medium clean air quality coupled with particularly cost-efficient operating behavior and low energy costs.
- High functional dependability even when subjected to extreme humidity and moisture.
- By reason of their shorter pockets, the G 35 S provide a space-saving solution for systems in which the G 35 L long-pocket filters cannot be used due to space constraints.
- For applications with extremely high dust quantities, the G35 8L with 8 long-pockets is recommended.

EN 779:2012 ISO 16890

Delivery notes

Customized dimensions are available on request.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m²/h]	DUST HOLDING CAPACITY (AC FINE/300 PA) [g]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]	PARTICULATE MATTER EFFICIENCY ISO ePM10 [%]
G 35 1/4 4L	7580238	289×289×650	4	1.5	1,500	2,400	30	G3	ISO coarse 60%	64	42
G 35 1/2 3S	7521389	289×592×330	3	1.2	2,000	1,800	20	G3	ISO coarse 65%	67	44
G 35 1/2 3L	7580138	289×592×650	3	2.4	2,500	3,900	30	G3	ISO coarse 60%	64	42
G 35 1/2H 8L	53495543	592×289×650	8	3.0	3,000	4,100	30	G3	ISO coarse 60%	64	42
G35 5/6 4S	7521289	492×592×330	4	1.6	2,700	2,400	20	G3	ISO coarse 65%	67	44
G35 5/6 4L	7599437	492×592×650	4	3.2	3,400	5,200	30	G3	ISO coarse 60%	64	42
G 35 1/1 5S	7515413	592×592×330	5	2.0	3,400	3,000	20	G3	ISO coarse 65%	67	44
G 35 1/1 8M	8929206	592×592×510	8	4.7	4,250	7,500	40	G3	ISO coarse 60%	64	43
G35 1/1 5L	7579317	592×592×650	5	4.0	4,250	6,500	30	G3	ISO coarse 60%	64	42

4,250

6.0

9,000

COMPACT | COARSE DUST

SPECIFICATIONS	
Filter medium	Polyester
Recommended final pressure drop	250 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Polyurethane
Fire class	F1 acc. to DIN 53438



F 40 and F 45

Application

Compact pocket filters of the series F 40 and F 45 are used for supply, exhaust and recirculating air filtration in all kinds of ventilation systems, such as

- in general air-conditioning applications,
- for ventilating machine rooms and production areas,
- for exhaust and recirculating air filtration in paint lines,
- as prefilters for fine and micro-filters in industrial processes (metal processing, chemicals, pharmaceuticals, food and beverage, optics, electronics, etc.).

Features and benefits

- Stable arrestance performance even with high coarse dust loadings and high air flow rate.
- F40 L and F45 L are particularly energy-efficient, thus ensuring reduced energy costs and downsized CO, emissions.
- High functional reliability, even under extremely moist and wet operating conditions.
- Thanks to their shorter pockets, F45 S filters offer a space-saving solution for plants where the use of long-pocket filters would not be possible.
- F45 R in reverse flow design offers the possibility of a prefilter stage on the raw-gas side and therefore the expansion of the filter system.

Delivery notes

Customized dimensions are available on request.

EN 779:2012 ISO 16890

								111/19:2012	130 10030		
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m²/h]	DUST HOLDING CAPACITY (AC FINE/300 PA) [g]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]	PARTICULATE MATTER EFFICIENCY ISO ePM10
F40 1/4 4L	8500359	289×289×650	4	1.5	1,500	1,650	30	G4	ISO coarse 70%	71	48
F45 1/2 3S	7529 <mark>267</mark>	289×592×330	3	1.2	2,000	1,000	35	G4	ISO coarse 70%	71	49
F45 1/2 3R	53291854	289×592×330	3	1.2	2,000	1,000*	35	G 4*	ISO coarse 70%*	70	49
F40 1/2 3L	8498114	289×592×650	3	2.4	2,500	2,600	30	G4	ISO coarse 70%	71	48
F40 1/2H 8L	53564830	592×289×650	8	3.0	2,500	2,800	30	G4	ISO coarse 70%	71	48
F45 5/6 4S	7528456	492×592×330	4	1.6	2,700	1,350	35	G4	ISO coarse 70%	71	49
F45 5/6 4R	53287379	492×592×330	4	1.6	2,700	1,350*	35	G 4*	ISO coarse 70%*	70	49
F40 5/6 4L	8500259	492×592×650	4	3.2	3,400	3,500	30	G4	ISO coarse 70%	71	48
F45 1/1 5S	7526134	592×592×330	5	2.0	3,400	1,700	35	G4	ISO coarse 70%	71	49
F45 1/1 5R	53266401	592×592×330	5	2.0	3,400	1,700*	35	G 4*	ISO coarse 70%*	70	49
F40 1/1 5L	8256138	592×592×650	5	4.0	4,250	4,400	30	G4	ISO coarse 70%	71	48
F45 1/1 8L	53457509	592×592×650	8	6.0	4,250	5,600	50	G4	ISO coarse 70%	70	48

* also available as reverse-flow version 47

COMPACT | FINE DUST







Polyesther, Polyolefin
450 Pa
> 6,000 Pa
70 °C
100% rel. hum.
Polyurethane
F1 acc. to DIN 53438

Special features of all fine dust Compact pocket filters

High-performing, extremely cost-effective and energy efficient: Viledon® Compact pocket filters offer dependable operating characteristics plus freedom from maintenance over the entire operational lifetime. They constitute an optimum combination of stable arrestance performance for fine dusts, high dust holding capacity, low pressure drop and long operational lifetime.

- Single- or multi-layered progressively structured high-performance nonwovens made from non-breaking synthetic-organic fibers.
- High arrestance, low pressure drop, long operational lifetime, high cost-efficiency.
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing according to DIN 53438 (fire class F1) and microbiologically inactive. They meet all criteria laid down in VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- High functional dependability thanks to filter pockets welded in a leakproof configuration foamed onto a PUR front frame, with welded-in aerodynamic spacers and a dimensionally stable construction of the entire filter element.

Delivery notes

Customized dimensions are available on request.

F 50 und T 60

Application

F 50 and T 60 are used for filtering intake, exhaust and recirculating air in air-conditioning systems with stringent requirements for sturdiness and cost-efficiency, e.g.

- in industrial processes (chemicals, pharmaceuticals, food and beverage, optics, electronics, etc.),
- in intake and exhaust air filtration for paint shops,
- in intake air filtration for gas turbines and turbocompressors onshore and offshore (especially T60),
- for intake and exhaust air filtration in sophisticated air-conditioning technology (hospitals, laboratories, libraries, museums, airports), plus production facilities and factory halls (especially F 50).

Features and benefits

- T60 and F50 pocket filters are robust in continuous operation and achieve superlative performance even during temporary overload operation in terms of high clean air quality.
- Both pocket filter series achieve energy efficiency class A and thus ensure reduced energy costs and downsized CO₂ emissions.

EN 779:2012 ISO 16890

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					8	NG 0 PA)	DING 800 PA)	PRESSURE			PARTICI EF	JLATE N FICIENC [%]		PARTICLE SIZE	EFFICIENCY	
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	DIMENSIONS (W×H×D) [mm]	DIMENSIONS (W×H×D) [mm]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDING CAPACITY (AC FINE/300 P [8]	DUST HOLDING CAPACITY (AC FINE/800 PA [8]	INITIAL PRES' DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PAR [μm]	ENERGY EFFI	
F50 1/4 4L	7582250	2 <mark>89×</mark> 289×650	4	1.4	1,525	1,100		50	M 5	ISO ePM10 55%	7	15	58	10	Α	
F50 1/2 3L	7582150	2 <mark>89×5</mark> 92×650	3	2.4	2,500	1,900		50	M 5	ISO ePM10 55%	7	15	58	10	Α	
F50 1/2H 8L	53473137	5 <mark>92×2</mark> 89×650	8	3.0	2,100	1,600		60	M 5	ISO ePM10 55%	5	14	56	10	Α	
F50 5/6 4L	7581449	4 <mark>92×5</mark> 92×650	4	3.2	3,400	2,550		50	M 5	ISO ePM10 55%	7	15	58	10	Α	
F50 1/1 55°	53456360	592×592×330	5	2.0	3,400	1,900		65	M 5	ISO ePM10 55%	7	18	59	10		
F50 1/1 8M	53457510	592×592×510	8	4.7	4,250	3,600		60	M 5	ISO ePM10 55%	7	15	56	10	Α	
F50 1/1 5L	7581349	592×592×650	5	4.0	4,250	3,200		50	M 5	ISO ePM10 55%	7	15	58	10	Α	
T60 1/4 4L	8474350	289×289×650	4	1.5	975	750	1,150	65	M 6	ISO ePM10 60%	8	18	61	9	Α	
T60 1/2 3L	8474250	289×592×650	3	2.4	1,600	1,200	1,900	65	M 6	ISO ePM10 60%	8	18	61	9	Α	
T60 1/2H 8L	53471177	592×289×650	8	3.0	2,100	1,450	2,200	65	M 6	ISO ePM10 60%	8	18	61	9	Α	
T60 5/6 4L	8474150	492×592×650	4	3.2	2,175	1,600	2,550	65	M 6	ISO ePM10 60%	8	18	61	9	Α	
T60 1/1 8L	8473449	592×592×650	8	6.0	4,250	3,000	5,000	65	M 6	ISO ePM10 60%	8	18	61	9	Α	
T60 OG	53430681	618×578×605	8	5.5	3,925	2,700	4,600	65	M 6	ISO ePM10 60%	8	18	61	9	Α	





COMPACT | FINE DUST

PECIFICATIONS	
ilter medium	Polyesther, Polyolefin
Recommended final pressure drop	450 Pa
Bursting pressure	>6,000 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Polyurethane
Fire class	F1 acc. to DIN 53438



• In the intake air systems of gas turbines, T 60 filters can be relied upon to retain aggressive, abrasive particles, to minimize blade fouling and erosion, thus enhancing the efficiency and availability of turbomachinery.

Note

The versions F 50 AXM and T 60 AXM are suitable for use in explosive atmospheres. Please get informed about the current certificates of conformity.

T90 PRE

Application

T90 PRE with proven jetSpin technology are used in intake air filtration for gas turbines and turbocompressors onshore and offshore.

Features and benefits

• T90 PRE filters can be relied upon to arrest aggressive, abrasive particles, to minimize blade fouling and erosion, and thus to upgrade the efficiency and availability of turbomachinery.

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Delivery notes

Customized dimensions are available on request.

T90 and T95

Application

T90 and T95 filters are used for intake, exhaust and recirculating air filtration in air-conditioning systems with special requirements for arrestance performance, e.g.

- in industrial processes (chemicals, pharmaceuticals, food and beverage, optics, electronics, etc.),
- · as prefilters for EPA | HEPA | ULPA filters (MF90 and MF95),
- in intake air filtration for gas turbines and turbocompressors onshore and offshore,
- · as downstream "police filters" in dust removal systems,
- · in sophisticated air-conditioning technology (hospitals, laboratories, libraries, museums, airports, etc.).

Features and benefits

- T90 and T95 pocket filters featuring innovative filter media technology provide a sustainably high level of mechanical filtering performance under all conditions, for maximized operational reliability.
- The filters meet the toughest requirements in terms of fine filtration and create very high clean air quality, thus making a crucial contribution to cost-efficient operation of sensitive lines and processes.

								EN	779:2012	ISO 16890				EUROVE	ENT 4/21
		s			wc	DING 300 PA)	LDING (800 PA)	SSURE	. S			ULATE N FICIENC [%]		PARTICLE SIZE	EFFICIENCY
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDING CAPACITY (AC FINE/300 PA [g]	DUST HOLDING CAPACITY (AC FINE/800 PA [g]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PAI	ENERGY EFF
T90 PRE 1/2 4L	53449491	289×592×650	4	3.1	1,450	650	1,100	80	M 6	ISO ePM10 75%	38	47	77	8	Α
T90 PRE 1/1 12L	53449490	592×592×650	12	9.0	4,250	1,900	3,300	80	M 6	ISO ePM10 75%	38	47	77	8	Α
T90 1/4 4L*	53560101	289×289×650	4	1.5	850	200	300	80	F7	ISO ePM2,5 65%	53	65	86	5	С
T90 1/2 4L*	53560102	289×592×650	4	3.1	1,700	400	600	80	F7	ISO ePM2,5 65%	53	65	86	5	С
T90 1/2H 8L*	53562148	592×289×650	8	3.0	1,700	400	600	80	F7	ISO ePM2,5 65%	53	65	86	5	С
T90 5/6 6L*	53560099	492×592×650	6	4.7	2,600	750	1,400	80	F7	ISO ePM2,5 65%	53	65	86	5	C
T90 1/1 5L*	53555934	592×592×650	5	4.0	3,400	500	800	120	F7	ISO ePM2,5 65%	52	65	85	5	
T90 1/1 8L*	53555918	592×592×650	8	6.0	3,400	950	1,900	80	F7	ISO ePM2,5 65%	53	65	86	5	C
T90 1/1 12L*	53555917	592×592×650	12	9.0	4,250	1,400	2,800	100	F7	ISO ePM2,5 65%	54	66	86	5	Α
T95 1/4 4L*	53444165	289×289×650	4	1.5	675	200	350	150	F8	ISO ePM1 80%	81	86	95	4	C
T95 1/2 4L*	53444166	289×592×650	4	3.1	1,450	400	800	150	F8	ISO ePM1 80%	81	86	95	4	C
T95 5/6 6L*	53444167	492×592×650	6	4.7	2,200	650	1,150	150	F8	ISO ePM1 80%	81	86	95	4	C
T95 1/1 12L*	53444168	592×592×650	12	9.0	4,250	1,250	2,200	150	F8	ISO ePM1 80%	81	86	95	4	C

Please note: new article name. For further information please visit our e-catalog

rated at 3.400 m³/h (further information at www.eurovent-certification.com)

WINAIR | COARSE DUST



SPECIFICATIONS	
Filter medium	Polyester
Recommended final pressure drop	250 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Polyurethane
Fire class	F1 acc. to DIN 53438

Application

The WinAir 45 coarse filters provide stable arrestance of coarse dusts, and are particularly suitable as prefilters.

Features and benefits

- Good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers.
- Filter pockets foamed into the PU front frame, and welded in a leakproof configuration.
- Pocket forming through integrated welded seams.
- The pocket filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing under DIN 53438 (fire class F1).
- Simple, secure installation, suitable for all commonly used mounting frames.

Delivery notes

Customized dimensions are available on request.

EN 779:2012 ISO 16890

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	INITIAL GRAV. ARRESTANCE [%]	PARTICULATE MATTER EFFICIENCY ISO ePM10 [%]
WinAir45 1/4 45	53393160	289×289×330	4	0.7	1,200	30	G 4	ISO coarse 65%	66	45
WinAir 45 1/4 4M	53393161	289×289 <mark>×51</mark> 0	4	1.1	1,200	30	G4	ISO coarse 65%	68	44
WinAir 45 1/4 4L	53393162	289×289×650	4	1.4	1,250	25	G4	ISO coarse 65%	69	43
WinAir 45 1/2 35	53390777	289×592×330	3	1.2	2,050	30	G4	ISO coarse 65%	66	45
WinAir 45 1/2 3M	53390778	289×592×510	3	1.9	2,050	30	G4	ISO coarse 65%	68	44
WinAir 45 1/2 3L	53390779	289×592×625	3	2.3	2,050	25	G4	ISO coarse 65%	69	43
WinAir 45 5/6 4S	53390780	492×592×330	4	1.6	2,700	30	G4	ISO coarse 65%	66	45
WinAir 45 5/6 4M	53390781	492×592×510	4	2.5	2,700	30	G4	ISO coarse 65%	68	44
WinAir 45 5/6 4L	53390782	492×592×625	4	3.0	2,700	25	G4	ISO coarse 65%	69	43
WinAir 45 1/1 55	53390774	592×592×330	5	2.0	3,400	30	G4	ISO coarse 65%	66	45
WinAir 45 1/1 5M	53390775	592×592×510	5	3.1	3,400	30	G4	ISO coarse 65%	68	44
WinAir 45 1/1 5L	53390776	592×592×625	5	3.8	3,400	25	G 4	ISO coarse 65%	69	43





WINAIR | FINE DUST

SPECIFICATIONS	
Filter medium	Polyester (WinAir 50), polyolefin (WinAir 75 and WinAir 90)
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Polyurethane
Fire class	F1 acc. to DIN 53438



Application

The WinAir fine filters create good clean air quality based on good arrestance coupled with a low pressure drop. Used as prefilters, they protect the downstream filter stages.

Features and benefits

- Very good filtration characteristics thanks to progressively structured filter media made of synthetic-organic fibers.
- Filter pockets foamed into the PU front frame, and welded in a leakproof configuration.
- Pocket forming through integrated welded seams.
- The pocket filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for ventilation and air-conditioning systems and units".
- Free of glass-fibers, non-corroding, moisture-resistant up to 100% relative humidity, self-extinguishing under DIN 53438 (fire class F1).
- Simple, secure installation, suitable for all commonly used mounting frames.

EN 779:2012 ISO 16890

EUROVENT 4/21

_			S			W	ROP	10		PARTICULA	NTE MATTER E [%]	FFICIENCY	FICIENCY
ARTICLE		ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NUMBER OF POCKETS	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	ENERGY EFFICIENCY CLASS*
WinAir50 1/4	45	53393163	289×289×330	4	0.7	1,200	55	M 5	ISO ePM10 55%	5	12	59	
WinAir50 1/4	4M	53393169	289×289×510	4	1.1	1,200	50	M 5	ISO ePM10 55%	6	14	58	
WinAir50 1/4	4L	53393170	289×289×650	4	1.4	1,250	45	M 5	ISO ePM10 55%	7	15	56	С
WinAir50 1/2	35	53390787	289×592×330	3	1.2	2,000	55	M 5	ISO ePM10 55%	5	12	59	
WinAir50 1/2	3M	53390788	289×592×510	3	1.9	2,000	50	M 5	ISO ePM10 55%	6	14	58	
WinAir50 1/2	3L	53390794	289×592×625	3	2.3	2,000	45	M 5	ISO ePM10 55%	7	15	56	С
WinAir50 5/6	45	53390795	492×592×330	4	1.6	2,500	55	M 5	ISO ePM10 55%	5	12	59	
WinAir50 5/6	4M	53390796	492×592×510	4	2.5	2,700	50	M 5	ISO ePM10 55%	6	14	58	
WinAir50 5/6	4L	53390797	492×592×625	4	3.1	2,700	45	M 5	ISO ePM10 55%	7	15	56	С
WinAir50 1/1	55	53390783	592×592×330	5	2.0	3,400	55	M 5	ISO ePM10 55%	5	12	59	
WinAir50 1/1	5M	53390784	592×592×510	5	3.1	3,400	50	M 5	ISO ePM10 55%	6	14	58	
WinAir50 1/1	5L	53390785	592×592×625	5	3.8	3,400	45	M 5	ISO ePM10 55%	7	15	56	С
WinAir 75 1/4	4M	53393171	289×289×510	4	1.2	800	100	M6	ISO ePM10 70%	26	38	73	
WinAir 75 1/4	4L	53393172	289×289×650	4	1.4	800	75	M6	ISO ePM10 70%	27	39	74	
WinAir 75 1/2	4M	53390801	289×592×510	4	2.5	1,700	100	M 6	ISO ePM10 70%	26	38	73	
WinAir 75 1/2	4L	53390802	289×592×625	4	3.0	1,700	75	M 6	ISO ePM10 70%	27	39	74	
WinAir75 5/6	6M	53390803	492×592×510	6	3.7	2,550	100	M 6	ISO ePM10 70%	26	38	73	
WinAir 75 5/6	6L	53390804	492×592×625	6	4.5	2,550	75	M6	ISO ePM10 70%	27	39	74	
WinAir 75 1/1	8M	53390798	592×592×510	8	4.9	3,400	100	M 6	ISO ePM10 70%	26	38	73	
WinAir 75 1/1	8L	53390799	592×592×625	8	6.0	3,400	75	M6	ISO ePM10 70%	27	39	74	
WinAir90 1/4	4M	53393173	289×289×510	4	1.2	800	140	M6	ISO ePM10 85%	51	65	87	
WinAir90 1/4	4L	53393174	289×289×650	4	1.4	800	125	M6	ISO ePM10 85%	52	66	88	
WinAir90 1/2	4M	53390808	289×592×510	4	2.5	1,700	140	M6	ISO ePM10 85%	51	65	87	
WinAir90 1/2	4L	53390809	289×592×625	4	3.0	1,700	125	M6	ISO ePM10 85%	52	66	88	
WinAir90 5/6	6M	53390810	492×592×510	6	3.7	2,550	140	M6	ISO ePM10 85%	51	65	87	
WinAir90 5/6	6L	53390811	492×592×625	6	4.5	2,550	125	M6	ISO ePM10 85%	52	66	88	
WinAir90 1/1	8M	53464906	592×592×510	8	4.9	3,400	140	M 6	ISO ePM10 85%	51	65	87	
WinAir90 1/1	8L	53464907	592×592×625	8	6.0	3,400	125	M 6	ISO ePM10 85%	52	66	88	



In the category of cassette filters, Freudenberg Filtration Technologies offers a broad choice of products. All models are characterized by high performance capabilities: Viledon® cassette filters excel in terms of optimum media velocity with low pressure drop even at high volume flows. Plus a large dust holding capacity and exceptionally high stability of the entire filter construction for operational dependability in actual use.

Simply scan the QR code and find out more about cassette filters!



MAXIPLEAT | FINE DUST







SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	650 Pa
Bursting pressure	>6000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request foamed-on PU seal (N1)
Protection grids	On both sides, halogen-free plastic

Application

Viledon® MaxiPleat cassette filters offer maximized operational dependability and cost-efficiency for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality, particularly in the case of critical local conditions, high volume flows, restricted space available, and when process dependability does not tolerate compromises, e.g.

- · in intake air filtration of turbomachinery,
- in industrial processes (chemicals, pharmaceuticals, food and beverage, optics, electronics, surface treatment technology, etc.),
- in sophisticated air-conditioning technology (laboratories, museums, airports, office buildings, etc.),
- as "police filters" in dust removal systems.

Delivery notes

MaxiPleat cassette filters available in 140 mm construction depth and without PU seal. N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading, and a homogeneous media velocity with a low average pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- Casting the dimensionally stable pleat package in the torsion-resistant
 plastic frame assures exceptional sturdiness plus high security against
 dust breakthrough. Gripping lugs facilitate installation and removal.
 The protection grid on both sides minimizes the risk of damage to the
 filter medium.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular "clip-on" system.
- MaxiPleat filters meet in full the requirements laid down in VDI 6022.

EN 779:2012 ISO 16890

EUROVENT 4/21

		SN	⋖	VOLUME	.DING 800 PA)	RE DROP	CLASS ACC. 779:2012		PARTICULATE MAT EFFICIENCY [%]			PARTICLE	EFFICIENCY
ARTICLE	ARTICLE NUMBER	DIMENSIONS (H×W×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	DUST HOLDIN CAPACITY (AC FINE/800 [g]	INITIAL PRESSURE [Pa]	FILTER CLA TO EN 779:	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PA SIZE [µm]	ENERGY EF
MX75-R-0592x0287x292x25-Z08N-A84	73076492	592×287×292	7.5	2,000	700	135	M 6	ISO ePM10 85%	54	62	86	6	
MX75-R-0592x0490x292x25-Z08N-A84	73076493	592×490×292	14.5	3,500	1,300	135	M 6	ISO ePM10 85%	54	62	86	6	
MX75-M-0592x0592x292x25-Z08N-A84	73076553	592×592×292	18.0	4,250	1,600	135	M 6	ISO ePM10 85%	54	62	86	6	
MX75-R-0592x0592x292x25-Z08D-A84	73076755	592×592×292	21.0	4,250	1,700	115	M 6	ISO ePM10 85%	54	62	86	6	
MX85-R-0287X0287X292X25-Z08N-B84	73076549	287×287×292	4.3	1,000	400	140	F7	ISO ePM2,5 65%	60	69	88	5	С
MX85-R-0592x0287x292x25-Z <mark>08N-</mark> B84	73076489	592×287×292	7.5	2,000	650	140	F 7	ISO ePM2,5 65%	60	69	88	5	С
MX85-R-0592x0490x292x25-Z <mark>08N-</mark> B84	73076871	592×490×292	14.5	3,500	1,200	140	F7	ISO ePM2,5 65%	60	69	88	5	С
MX85-M-0592x0592x292x25-Z08N-B84	73076554	592×592×292	18.0	4,250	1,500	140	F 7	ISO ePM2,5 65%	60	69	88	5	С
MX85-RB-0592X0592X292X25 <mark>-Z08</mark> N-B84	73076550	592×592×292	18.0	4,250	1,500	140	F7	ISO ePM2,5 65%	60	69	88	5	С
MX85-R-0592X0592X292X25-Z08D-B84	73076517	592×592×292	21.0	4,250	1,600	120	F7	ISO ePM2,5 65%	60	69	88	5	С
MX95-R-0592x0287x292x25-Z <mark>08N-</mark> C84	73076486	592×287×292	7.5	2,000	500	150	F8	ISO ePM1 65%	68	76	92	4	В
MX95-R-0592x0490x292x25-Z08N-C84	73076487	592×490×292	14.5	3,500	900	150	F8	ISO ePM1 65%	68	76	92	4	В
MX95-M-0592x0592x292x25-Z08N-C84	73076795	592×592×292	18.0	4,250	1,100	150	F8	ISO ePM1 65%	68	76	92	4	В
MX95-MB-0592X0592X292X25-Z08N-C84	73077038	592×592×292	18.0	4,250	1,100	150	F8	ISO ePM1 65%	68	76	92	4	В
MX95-R-0592x0592x292x25-Z08D-C84	73076507	592×592×292	21.0	4,250	1,200	130	F8	ISO ePM1 65%	68	76	92	4	В
MX98-R-0592x0287x292x25-Z08N-D84	73076483	592×287×292	7.5	2,000	400	180	F9	ISO ePM1 80%	84	88	96	2.5	В
MX98-R-0592x0490x292x25-Z08N-D84	73076484	592×490×292	14.5	3,500	750	180	F9	ISO ePM1 80%	84	88	96	2.5	В
MX98-M-0592x0592x292x25-Z08N-D84	73076557	592×592×292	18.0	4,250	900	180	F9	ISO ePM1 80%	84	88	96	2.5	В
MX98-MB-0592X0592X292X25-Z08N-D84	73077019	592×592×292	18.0	4,250	900	180	F9	ISO ePM1 80%	84	88	96	2.5	В
MX98-R-0592x0592x292x25-Z08D-D84	73076692	592×592×292	21.0	4,250	1,000	145	F9	ISO ePM1 80%	84	88	96	2.5	В

MAXIPLEAT | EPA

SPECIFICATIONS							
Filter medium	Micro-glass-fiber paper						
Recommended final pressure drop	650 Pa						
Bursting pressure	>6000 Pa						
Thermal stability	up to 70 °C						
Moisture resistance	100% rel. hum.						
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)						
Seal	Without (Z0), on request foamed-on PU seal (N1)						
Protection grids	On both sides, halogen-free plastic						



Application

Viledon® MaxiPleat cassette filters offer maximized operational dependability and cost-efficiency for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality, particularly in the case of critical local conditions, high volume flows, restricted space available, and when process dependability does not admit any compromises, e.g.

- · in intake air filtration of turbomachinery,
- in industrial processes (chemicals, pharmaceuticals, food and beverage, optics, electronics, surface treatment technology, etc.),
- in sophisticated air-conditioning technology (laboratories, museums, airports, office buildings, etc.),
- · as "police filters" in dust removal systems.

Delivery notes

MaxiPleat cassette filters are also available in 140 mm construction depth as well as with and without seal.

N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. An optional water barrier reduces the passage of intake water to the clean air side. Customized dimensions are available on request.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading over the filtering area and a homogeneous media velocity with a low average pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- Casting the dimensionally stable pleat package in the torsion-resistant
 plastic frame assures exceptional sturdiness plus high security against
 dust breakthrough. Gripping lugs facilitate installation and removal,
 and the protection grids on both sides minimize the risk of damage to
 the filter medium.
- With the MaxiPleat modular filter system, MaxiPleat filters of different filter classes and construction depths can be positively combined simply by clipping them on, thus enabling another filter stage to be inserted without any structural modifications.
- · MaxiPleat filters meet in full the requirements laid down in VDI 6022.

EN 1822:2009 ISO 16890

				OLUME FLOW	i CAPACITY PA)	IRE DROP		2:2009	463	EFFICIENCY MPPS			RTICULA ER EFFIC [%]		CLESIZE
ARTICLE	ARTICLE NUMBER	DIMENSIONS (H×W×D) [mm]	FILTER AREA [m²]	NOMINAL VOLI [m³/h]	DUST HOLDING CAPACITY (AC FINE/800 PA) [g]	INITIAL PRESSURE DROP [Pa]	FACE VELOCITY [m/s]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EI [%]	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE [µm]
MXH10-R-0592X0287X292X25-Z08N-E84	73077006	592×287×292	7.5	2,100	350	240	3.2	E10		≥85	ISO ePM1 > 95%	95	97	99	1
MXH10-M-0592x0592x292x25 <mark>-Z08</mark> N-E84	73076853	592×592×292	18.0	4,250	750	240	3.2	E10		≥85	ISO ePM1 > 95%	95	97	99	1
MXH10-MB-0592X0592X292X <mark>25-Z</mark> 08N-E84	73077144	592×592×292	18.0	4,250	750	240	3.2	E10		≥85	ISO ePM1 > 95%	95	97	99	1
MXH10-R-0592x0592x292x25- <mark>Z08</mark> D-E84	73077146	592×592×292	21.0	4,250	800	210	2.5	E10		≥85	ISO ePM1 > 95%	95	97	99	1
MX100-R-0592x0287x292x25- <mark>Z08N</mark> -F84	73076904	592×287×292	7.5	1,500	300	220	2.3	E11	ISO 15 E	≥95	ISO ePM1 > 95%	97	99	>99	0.5
MX100-R-0592X0490X292X25-Z08N-F84	73076481	592×490×292	14.5	2,700	550	220	2.4	E11	ISO 15 E	≥95	ISO ePM1 > 95%	97	99	>99	0.5
MX100-M-0592X0592X292X25-Z08N-F84	73076899	592×592×292	18.0	3,400	700	220	2.5	E11	ISO 15 E	≥95	ISO ePM1 > 95%	97	99	>99	0.5
MX100-MB-0592X0592X292X25-Z08N-F84	73077140	592×592×292	18.0	3,400	700	220	2.5	E11	ISO 15 E	≥95	ISO ePM1 > 95%	97	99	>99	0.5
MX100-R-0592X0592X292X25-Z08D-F84	73076687	592×592×292	21.0	3,400	750	190	2.5	E11	ISO 15 E	≥95	ISO ePM1 > 95%	97	99	>99	0.5
MX120-R-0592X0287X292X25-Z08N-G60	73076478	592×287×292	11.0	1,500	235	320	2.3	E12	ISO 25 E	≥99,5					
MX120-R-0592X0490X292X25-Z08N-G60	73076642	592×490×292	19.0	2,700	400	320	2.4	E12	ISO 25 E	≥99,5					
MX120-M-0592X0592X292X25-Z08N-G60	73076793	592×592×292	23.0	3,400	450	320	2.5	E12	ISO 25 E	≥99,5					
MX120-MB-0592X0592X292X25-Z08N-G60	73076312	592×592×292	23.0	3,400	450	320	2.5	E12	ISO 25 E	≥99,5					

Subject to technical changes

MAXIPLEAT | MODULAR FILTER SYSTEM | FINE DUST





SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	650 Pa
Bursting pressure	>6000 Pa
Thermal stability	up to 70 °C
Moisture resistance	100% rel. hum.
Frame	Without (D), 25 mm front frame, halogen-free plastic (N)
Seal	Without (Z0), on request glued-on/foamed-on PU seal (N5)
Protection grids	On both sides, halogen-free plastic

Application

The Viledon® MaxiPleat modular filter system is used for intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for the clean air quality, particularly when the space available is restricted, e.g.

- · in intake air filtration for turbomachinery,
- · in industrial processes,
- · in sophisticated air-conditioning technology.

With the MaxiPleat modular filter system, MaxiPleat filters of different filter classes and construction depths can be positively combined simply by clipping them on, thus enabling another filter stage to be inserted without any structural modifications.

Delivery notes

The MaxiPleat basic filters are supplied with connecting pins inserted (RB types). N = with 25 mm front frame; U = with 20.5 mm front frame; D = without front frame. The MaxiPleat modular prefilters (RC types) are available in 292 and 140 mm construction depths. The standard version does not include a front frame, but is delivered with a clean air side seal and connecting caps inserted.

An retaining bracket, which precludes the possibility of the prefilter becoming detached under any operating conditions, is included in the delivery package of the 292 mm types (for vertical installation). In the case of overhead installation, an additional bracket is required, which can be ordered separately. An optional water barrier reduces the passage of intake water to the clean air side.

Customized dimensions are available on request.

Features and benefits

- The optimum V-shaped pleat geometry of the filter medium, as created by the thermal embossing process, enables the entire filtering area to be utilized, with uniform dust loading over the filtering area and a homogeneous media velocity with a low pressure drop.
- The high dust holding capacity of the MaxiPleat filters, in conjunction with a low pressure drop and superlative constructional stability, ensures cost-efficient and dependable operation over a very long operational lifetime.
- To install the MaxiPleat modular filter system, the MaxiPleat basic filter fitted with the black connecting pins is inserted in the existing support system. The prefilter with the white connecting caps can now be simply clipped onto the installed basic filter. The connecting pins anchored in the basic filter can no longer be detached. The clipped-on prefilter can be removed again and replaced.
- Casting the dimensionally stable pleat package in the torsion-resistant
 plastic frame assures exceptional sturdiness plus high security against
 dust breakthrough. Gripping lugs facilitate installation and removal,
 and the protection grids on both sides minimize the risk of damage to
 the filter medium.
- MaxiPleat filters meet the requirements laid down in VDI 6022.

EN 779:2012 ISO 16890

				OLUME FLOW	G CAPACITY PA)	JRE DROP	ACC. TO			PARTICULATE ITER EFFICIEI [%]		CLE SIZE
ARTICLE	ARTICLE NUMBER	DIMENSIONS (H×W×D) [mm]	FILTER AREA [m²]	NOMINAL VOL [m³/h]	DUST HOLDING (AC FINE/800 [g]	INITIAL PRESSUI [Pa]	FILTER CLASS A EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE [µm]
MX75-RC-0554x0554x140x10-N58D-A45	73076963	554×554×140	12	3,400	>1,500	135	M6	ISO ePM10 85%	56	61	85	6
MX75-RC-0554x0554x292x25-N58D-A84	73076534	554×554×292	18	3,400	>2,300	95	M6	ISO ePM10 85%	56	61	85	6
MX85-RC-0554x0554x140x10-N58D-B45	73076963	554×554×140	12	3,400	>1,250	140	F7	ISO ePM2,5 65%	60	70	89	5
MX85-RC-0554x0554x292x25-N58D-B84	73076519	554×554×292	18	3,400	>1,900	100	F7	ISO ePM2,5 65%	60	70	89	5
MX95-RC-0554x0554x140x10-N58D-C45	73076688	554×554×140	12	3,400	>1,150	150	F8	ISO ePM1 75%	77	83	94	4
MX95-RC-0554x0554x292x25-N58D-C84	73076535	554×554×292	18	3,400	>1,700	105	F8	ISO ePM1 75%	77	83	94	4
MX98-RC-0554x0554x140x10-N58D-D45	73076919	554×554×140	12	3,400	>1,000	175	F9	ISO ePM1 85%	89	92	97	2.5
MX98-RC-0554X0554X292X25-N58D-D84	73076921	554×554×292	18	3,400	>1,500	125	F9	ISO ePM1 85%	89	92	97	2.5







NANOPLEAT | FINE DUST

SPECIFICATIONS	
Filter medium	HSN media technology
Recommended final pressure drop	450 Pa
Thermal stability	up to 50 ℃
Moisture resistance	100 % rel. hum.
Frame	Plastic



Application

Viledon® NanoPleat filters have been developed specifically for intake, exhaust and recirculated air filtration in HVAC systems posing stringent requirements for clean air quality and cost-efficiency. They ensure clean, efficiently conditioned air

- in office buildings, production halls, airports, libraries, museums, laboratories, hospitals, old people's homes and care facilities, etc.,
- in sensitive applications for the food and beverage industries, pharmaceuticals, chemicals, optics, electronics, and medical technology, etc.

Features and benefits

- Consistently high filtration efficiency under all operating conditions thanks to the unique HSN media.
- The low pressure drop and the high dust holding capacity provide ultra-efficient, energy-saving operating characteristics, with a slow increase in the pressure drop and resultant additional lifetime reserves.
 This produces a significant reduction in operating costs.
- Simplified handling at installation, since the HSN medium will not be irreversibly damaged even if it comes into contact with slight pressure.

- The pleated HSN filter media, cast in a tough plastic frame in a leakproof configuration, are exceptionally sturdy and water-repellent.
 Even when exposed to high levels of dampness and moisture, the filter medium will not be saturated; in fact the water droplets will simply roll off the material's surface. The pressure drop remains almost unchanged even under these circumstances, thus providing maximized operational reliability.
- Viledon[®] NanoPleat filters are highly resistant to chemicals, microbiologically inert and meet all hygiene requirements for HVAC systems to EN 16798-3:2017-11 and the German VDI Guideline 6022. Their microbial safety has been confirmed by the Institute for Air Hygiene in Berlin.
- The sturdy construction ensures optimum performance even under turbulent flow conditions or during load changes. This means that the risk of particle or fiber shedding is practically eliminated.
- The filter elements are free of metals and halogens, corrosion-proof and also fully incinerable and thus disposal-friendly. The frame and filter media are self-extinguishing to DIN 53438 (Fire class F 1).

EN 779:2012 ISO 16890

EUROVENT 4/21

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			NE FLOW	DROP			PARTICULA	ATE MATTER E [%]	FFICIENCY	SIZE	**
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SIZE [µm]	ENERGY EFFICIENCY CLASS*
MV 75 HSN 1/2 V08X24-Z00N-A33	53429114	287×592×292	1,500	85	M6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 4/6 V08X24-Z00N-A33	53475720	402×592×292	2,100	85	M6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 5/6 V08X24-Z00N-A33	53429115	490×592×292	2,700	85	M 6	ISO ePM10 85%	44	58	87	7	
MV 75 HSN 1/1 V08X24-Z00N-A33	53424217	59 <mark>2×5</mark> 92×292	3,400	85	M6	ISO ePM10 75%	44	58	87	7	
MV 85 HSN 1/2 V08X24-Z00N-B33	53429116	287×592×292	1,500	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 85 HSN 4/6 V08X24-Z00N-B33	53441273	40 <mark>2×5</mark> 92×292	2,100	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 85 HSN 5/6 V08X24-Z00N-B33	53429117	490×592×292	2,700	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 85 HSN 1/1 V08X24-Z00N-B33	53424218	592×592×292	3,400	100	F7	ISO ePM2,5 80%	74	81	93	5	С
MV 95 HSN 1/2 V08X24-Z00N-C33	53429118	287×592×292	1,500	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 95 HSN 4/6 V08X24-Z00N-C33	53441279	402×592×292	2,100	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 95 HSN 5/6 V08X24-Z00N-C33	53429124	490×592×292	2,700	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 95 HSN 1/1 V08X24-Z00N-C33	53424229	592×592×292	3,400	110	F8	ISO ePM1 75%	79	84	94	4	С
MV 98 HSN 1/2 V08X24-Z00N-D33	53429135	287×592×292	1,500	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 4/6 V08X24-Z00N-D33	53490992	402×592×292	2,100	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 5/6 V08X24-Z00N-D33	53429134	490×592×292	2,700	120	F9	ISO ePM1 85%	85	88	96	3	В
MV 98 HSN 1/1 V08X24-Z00N-D33	53424230	592×592×292	3,400	120	F9	ISO ePM1 85%	85	88	96	3	В

EMAXX | FINE DUST







SPECIFICATIONS	
Filter medium	Synthetic microfiber nonwoven
Recommended final pressure drop	600 Pa
Burst strength	> 6,000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic

Application

Viledon® eMaxx filters are a new generation of powerful, efficient, economic and durable cassette filters offering operational reliability and cost efficiency for supply of air filtration systems which have stringent requirements for clean air quality. They are used in, e.g.

- intake air filtration for gas turbines and compressors,
- · ventilation systems.

Features and benefits

- High-strength synthetic media and micro-glass-fiber papers with hydrophobic coating are used.
- The entire filter element is non-corroding, and fully incinerable, since it contains no metal parts. Frame and protection grids consist of halogen-free plastic.
- The 4-sided, leakproof casting of the dimensionally stable media pleat pack provides high burst strength as well as excellent security against dust penetration during operation.
- During usage the vertical arrangement of pleats allows drainage of water to the bottom. This results in less water saturation of the filter and reduced pressure drop increase.
- Combination of excellent dust holding capacity at low pressure drop.
- eMaxx cassette filters are supplied as standard with a foamed in place gasket and a protection grid fitted to minimize risk of damage during handling and operation.
- The filters can be used as part of the unique Viledon® modular "clip-on" system. They can be combined with hydroMaxx coalescer filters or with MVPGT respectively MaxiPleat cassette filters in one filter stage by simple clip-on.



EMAXX | EPA

Synthetic microfiber nonwoven; Micro-glass-fiber paper						
600 Pa						
>6000 Pa						
70 °C						
100 % rel. hum.						
Halogen-free plastic						



Application

Viledon® eMaxx filters are a new generation of powerful, efficient, economic and durable cassette filters offering operational reliability and cost efficiency for supply of air filtration systems which have stringent requirements for clean air quality. They are used in, e.g.

- intake air filtration for gas turbines and compressors,
- · ventilation systems.

Features and benefits

- High-strength synthetic media and micro-glass-fiber papers with hydrophobic coating are used.
- The entire filter element is non-corroding, and fully incinerable, since it contains no metal parts. Frame and protection grids consist of halogen-free plastic.
- The 4-sided, leakproof casting of the dimensionally stable media pleat pack provides high burst strength as well as excellent security against dust penetration during operation.
- During usage the vertical arrangement of pleats allows drainage of water to the bottom. This results in less water saturation of the filter and reduced pressure drop increase.
- Combination of excellent dust holding capacity at low pressure drop.
- eMaxx cassette filters are supplied as standard with a foamed in place gasket and a protection grid fitted to minimize risk of damage during handling and operation.
- The filters can be used as part of the unique Viledon® modular "clip-on" system. They can be combined with hydroMaxx coalescer filters or with MVPGT respectively MaxiPleat cassette filters in one filter stage by simple clip-on.

EN 1822:2009 ISO 16890

	_				FLOW	СІТУ	DROP			NCY MPPS			ULATE M FICIENC [%]		щ
	ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FI [m³/h]	DUST HOLDING CAPA (AC FINE / 650 PA) [g]	INITIAL PRESSURE DR [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY [%]	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SIZE [μm]
	EMAXX E10 1/1 V08-25-Z09S-K27-30m ²	53542378	592×592×422	30	4,250	2,000	195	E10		≥85	ISO ePM1 > 95%	97	98	99	1
	EMAXX E10 1/1 V08-25-N19S-K27-30m²	53541786	592×592×422	30	4,250	2,000	195	E 10		≥85	ISO ePM1 > 95%	97	98	99	1
	EMAXX E10 B 1/1 V08-25-N19S-K27-30M ²	53566357	592×592×422	30	4,250	2,000	195	E 10		≥85	ISO ePM1 > 95%	97	98	99	1
i i	EMAXX E11 1/1 V08-25-Z095-F27-30m ²	53542389	592×592×422	30	3,400	1,800	170	E 11	ISO 15 E	≥95	ISO ePM1 > 95%	98	99	>99	0.5
5	EMAXX E11 1/1 V08-25-N19S-F27-30m²	53541787	592×592×422	30	3,400	1,800	170	E 11	ISO 15 E	≥95	ISO ePM1 > 95%	98	99	>99	0.5
2	EMAXX E11 B 1/1 V08-25-N19S-F27-30M ²	53572433	592×592×422	30	3,400	1,800	170	E 11	ISO 15 E	≥95	ISO ePM1 > 95%	98	99	>99	0.5
	EMAXX E12 1/1 V08-25-Z09S-G27-30m²	53552309	592×592×422	30	3,400	1,300	250	E12	ISO 25 E	≥99,5					
ברו וו	EMAXX E12 1/1 V08-25-N195-G27-30m²	53552257	592×592×422	30	3,400	1,300	250	E12	ISO 25 E	≥99,5					
ranc Janc	EMAXX E12 B 1/1 V08-25-N19S-G27-30M ²	53569111	592×592×422	30	3,400	1,300	250	E12	ISO 25 E	≥99,5					

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Subject to technical changes.

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MVPGT | FINE DUST





SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Bursting pressure	> 4000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic
Seal	PU gasket, continuously foamed
Protection grids	Halogen-free plastic, on the clean air side

Application

Viledon® MVPGT cassette filters are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry
- compressors and diesel and gas engines

They are particularly well suited for peaking units located onshore with average dust concentrations in the ambient air.

Features and benefits

- High dust holding capacity and low pressure drop at an optimum price-performance ratio.
- Supplied with protection grids fitted to minimize risk of damage to the filter during operation and optionally with a foamed-in place gasket.
- Recessed vertical rails allow full usage of a directly attached prefilter panel resulting in longer lifetimes and lower pressure drops.

- · A lug between the two inner V's allows easy handling.
- The frame offers various possibilities for the installation of clips to hold prefilters.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular "clip-on" system.
- For high performance requirements MVPGT cassette filters are also available with an extended filter area of 21 m² or as MVPGT-L version with 30 m².

EN 779:2012 ISO 16890

				ME	RE DROP	C. TO		PARTICULA	LE SIZE		
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE [Pa]	FILTER CLASS ACC. EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SIZE [µm]
MVPGT 85 1/2 V08X25-Z09N-B33-8,5m²	53569411	287×592×292	8.5	2,000	125	F7	ISO ePM2,5 70%	60	70	90	5
MVPGT 85 1/1 V08x25-Z09N-B <mark>33-1</mark> 8m²	53536299	59 2×592×292	18	4,250	125	F7	ISO ePM2,5 70%	60	70	90	5
MVPGT 85 1/1 V08x25-N19N-B33-18m²	53536310	592×592×292	18	4,250	125	F7	ISO ePM2,5 70%	60	70	90	5
MVPGT 85 1/1 V08x25-Z09N-B27-21m²	53536333	592×592×292	21	4,250	120	F7	ISO ePM2,5 70%	60	70	90	5
MVPGT 95 1/1 V08x25-Z09N-C33-18m²	53536300	592×592×292	18	4,250	135	F8	ISO ePM1 70%	70	78	93	4
MVPGT 95 1/1 V08x25-N19N-C33-18m²	53536311	592×592×292	18	4,250	135	F8	ISO ePM1 70%	70	78	93	4
MVPGT 95 1/1 V08x25-Z09N-C27-21m²	53536334	592×592×292	21	4,250	130	F8	ISO ePM1 70%	70	78	93	4
MVPGT 95 1/1 V08x25-N19N-C27-21m ²	53536338	592×592×292	21	4,250	130	F8	ISO ePM1 70%	70	78	93	4
MVPGT 95 1/1-L V08X25-N19S-C27-30M ²	53568185	592×592×422	30	4,250	130	F8	ISO ePM1 70%	70	78	93	4
MVPGT 98 1/2 V08x25-N19N-D33-8.5m ²	53536313	287×592×292	9.5	2,000	155	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1 V08x25-Z09N-D33-18m ²	53536301	592×592×292	18	4,250	155	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1 V08x25-N19N-D33-18m ²	53536329	592×592×292	18	4,250	155	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1 V08x25-T19N-D33-18m ²	53536364	592×592×292	18	4,250	155	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1 V08x25-Z09N-D27-21m ²	53536335	592×592×292	21	4,250	150	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1 V08x25-N19N-D27-21m ²	53536359	592×592×292	21	4,250	150	F9	ISO ePM1 85%	86	91	97	2.5
MVPGT 98 1/1-L V08X25-N19S-D27-30M ²	53567618	592×592×422	30	4,250	150	F9	ISO ePM1 85%	86	91	97	2.5

MVPGT | EPA

SPECIFICATIONS							
Filter medium	Micro-glass-fiber paper						
Recommended final pressure drop	600 Pa						
Bursting pressure	>4000 Pa						
Thermal stability	70 °C						
Moisture resistance	100 % rel. hum.						
Frame	Halogen-free plastic						
Seal	Flat seal, glued						
Protection grids	Halogen-free plastic, on the clean air side						



Application

Viledon® MVPGT cassette filters are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry
- compressors as well as diesel and gas engines

They are particularly well suited for peaking units located onshore with average dust concentrations in the ambient air.

Features and benefits

- High dust holding capacity and low pressure drop at an optimum price-performance ratio.
- Supplied with protection grids fitted to minimize risk of damage to the filter during operation and optionally with a foamed-in place gasket.
- Recessed vertical rails allow full usage of a directly attached prefilter panel resulting in longer lifetimes and lower pressure drops.
- · A lug between the two inner V's allows easy handling.
- The frame offers various possibilities for the installation of clips to hold prefilters.
- Optionally installed pins can be used for combination with other pre- or final filters for a 2-in-1 system solution by using the patented Viledon® modular "clip-on" system.
- For high performance requirements MVPGT cassette filters are also available with an extended filter area of 21 m² or as MVPGT-L version with 30 m².

EN 1822:2009 ISO 16890 FILTER CLASS ACC. TO N 1822:2009 MVPGT E10 1/1 V08x25-Z09N-K27-21m² ISO ePM1 > 95% ≥85 MVPGT E10 1/1 V08x25-N19N-K27-21m² 53536360 592×592×292 3,400 145 E10 ≥85 ISO ePM1 > 95% 95 97 99 MVPGT E10 1/1-L V08X25-N19S-K27-30m² 53568186 592×592×422 30.0 3,400 145 E10 ≥85 ISO ePM1 > 95% 95 97 99 1 MVPGT E11 1/2 V08x25-Z09N-F33-8.5m² 53536302 287×592×292 9.5 1,500 165 E11 ≥95 ISO ePM1 > 95% 98 99 >99 0.5 MVPGT E11 1/1 V08x25-Z09N-F27-21m² 53536303 592 × 592 × 292 18.0 3,400 165 E11 ≥95 ISO ePM1 > 95% 98 99 >99 0.5 MVPGT E11 1/1 V08x25-N19N-F27-21m² E11 ≥95 ISO ePM1 > 95% 98 99 >99 0.5 53536331 592×592×292 21,0 3.400 165 MVPGT E11 1/1-L V08X25-N19S-F27-30m² 53568187 592 × 592 × 422 E11 > 95 ISO ePM1 > 95% 0.5 30.0 3.400 165 98 >99

MVP | FINE DUST







SPECIFICATIONS	
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Top frame 25 mm, halogen-free plastic

Application

Viledon® MVP cassette filters are used for intake, exhaust and recirculating air filtration in air-conditioning systems, e.g. in office buildings, factory / production halls, airports, libraries, museums, laboratories, hospitals, old people's and nursing homes, etc.

Delivery notes

MVP cassette filters are available on request in filter classes E 10 to E 12, and with a foamed on gasket on the clean air side.
Also available with 6 instead of 8 panels.

Features and benefits

- MVP cassette filters excel in terms of a high dust holding capacity and low pressure drop values.
- · Casting the dimensionally stable pleat package in the plastic frame assures a high degree of security against dust breakthrough over the entire operational lifetime.

EN 779:2012 ISO 16890

EUROVENT 4/21

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			S A		/OLUME	SSURE	.2 .5		PART	ICULATE MA EFFICIENCY [%]		RTICLE	EFFICIENCY	
	ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SIZE [µm]	ENERGY EF CLASS*	
	MVP 75 1/2 V08x25-Z00N-A33	53538455	287×592×292	8.5	1,500	70	M6	ISO ePM10 75%	33	46	79	7		
	MVP 75 4/6 V08x25-Z00N-A33	53538456	402×592×292	11.8	2,100	70	M6	ISO ePM10 75%	33	46	79	7		
	MVP 75 5/6 V08x25-Z00N-A33	53538457	490×592×292	14.5	2,700	70	M6	ISO ePM10 75%	33	46	79	7		
	MVP 75 1/1 V08x25-Z00N-A33	53538458	592×592×292	18.0	3,400	70	M6	ISO ePM10 75%	33	46	79	7		
	MVP 85 1/2 V08x25-Z00N-B33	53538464	287×592×292	8.5	1,500	80	F7	ISO ePM2,5 70%	61	71	90	5	В	
	MVP 85 4/6 V08x25-Z00N-B33	53538465	402×592×292	11.8	2,100	80	F7	ISO ePM2,5 70%	61	71	90	5	В	
	MVP 85 5/6 V08x25-Z00N-B33	53538466	490×592×292	14.5	2,700	80	F7	ISO ePM2,5 70%	61	71	90	5	В	
	MVP 85 1/1 V08x25-Z00N-B33	53538467	592×592×292	18.0	3,400	80	F7	ISO ePM2,5 70%	61	71	90	5	В	
	MVP 95 1/2 V08x25-Z00N-C33	53538468	287×592×292	8.5	1,500	100	F8	ISO ePM1 70%	72	80	92	4	Α	
	MVP 95 4/6 V08x25-Z00N-C33	53538469	402×592×292	11.8	2,100	100	F8	ISO ePM1 70%	72	80	92	4	Α	
	MVP 95 5/6 V08x25-Z00N-C33	53538470	490×592×292	14.5	2,700	100	F8	ISO ePM1 70%	72	80	92	4	Α	
	MVP 95 1/1 V08x25-Z00N-C33	53538471	592×592×292	18.0	3,400	100	F8	ISO ePM1 70%	72	80	92	4	Α	
	MVP 98 1/2 V08x25-Z00N-D33	53538472	287×5 <mark>92×2</mark> 92	8.5	1,500	115	F9	ISO ePM1 85%	86	91	97	2.5	В	
	MVP 98 4/6 V08x25-Z00N-D33	53538473	402×5 <mark>92×2</mark> 92	11.8	2,100	115	F9	ISO ePM1 85%	86	91	97	2.5	В	
	MVP 98 5/6 V08x25-Z00N-D33	53538479	490×5 <mark>92×2</mark> 92	14.5	2,700	115	F9	ISO ePM1 85%	86	91	97	2.5	В	
	MVP 98 1/1 V08x25-Z00N-D33	53538480	592×5 <mark>92×2</mark> 92	18.0	3,400	115	F9	ISO ePM1 85%	86	91	97	2.5	В	
	MVP 75 1/2 V06x25-Z00N-A33	53539102	287×5 <mark>92×2</mark> 92	6.5	1,500	70	M6	ISO ePM10 75%	32	45	76	7		
	MVP 75 5/6 V06x25-Z00N-A33	53539105	490×5 <mark>92×2</mark> 92	11.5	2,700	70	M6	ISO ePM10 75%	32	45	76	7		
	MVP 75 1/1 V06x25-Z00N-A33	53539106	592×5 <mark>92×2</mark> 92	14	3,400	70	M6	ISO ePM10 75%	32	45	76	7		
	MVP 85 1/2 V06x25-Z00N-B33	53539107	287×592×292	6.5	1,500	80	F7	ISO ePM2,5 70%	61	71	88	5		
	MVP 85 5/6 V06x25-Z00N-B33	53539108	490×592×292	11.5	2,700	80	F7	ISO ePM2,5 70%	61	71	88	5		
	MVP 85 1/1 V06x25-Z00N-B33	53539109	592×592×292	14	3,400	80	F7	ISO ePM2,5 70%	61	71	88	5		
	MVP 95 1/2 V06x25-Z00N-C33	53539111	287×592×292	6.5	1,500	105	F8	ISO ePM1 70%	72	79	92	4		
	MVP 95 5/6 V06x25-Z00N-C33	53539112	490×592×292	11.5	2,700	105	F8	ISO ePM1 70%	72	79	92	4		
	MVP 95 1/1 V06x25-Z00N-C33	53539113	592×592×292	14	3,400	105	F8	ISO ePM1 70%	72	79	92	4		
	MVP 98 1/2 V06x25-Z00N-D33	53539114	287×592×292	6.5	1,500	135	F9	ISO ePM1 80%	81	85	92	3		
	MVP 98 5/6 V06x25-Z00N-D33	53539116	490×592×292	11.5	2,700	135	F9	ISO ePM1 80%	81	85	92	3		
	MVP 98 1/1 V06x25-Z00N-D33	53539117	592×592×292	14	3,400	135	F9	ISO ePM1 80%	81	85	92	3		

MVP AX | FINE DUST

SPECIFICATIONS	
Recommended final pressure drop	450 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Top frame 25 mm, halogen-free plastic, electrically conductive



Application

Subject to technical changes.

Viledon® MVP AX cassette filters are used for recirculating air filtration in spray booths and for air-conditioning systems. They have DEKRA certification accroding to IEC 60079-32-2:2015 and DIN EN 54345-1 and can be installed in the following equipment groups and categories for the intended use in the designated explosion zones (directive 2014/34/EU):

• Equipment category: II 1G IIA, IIB, IIC, II 1D IIIA, IIIB

Features and benefits

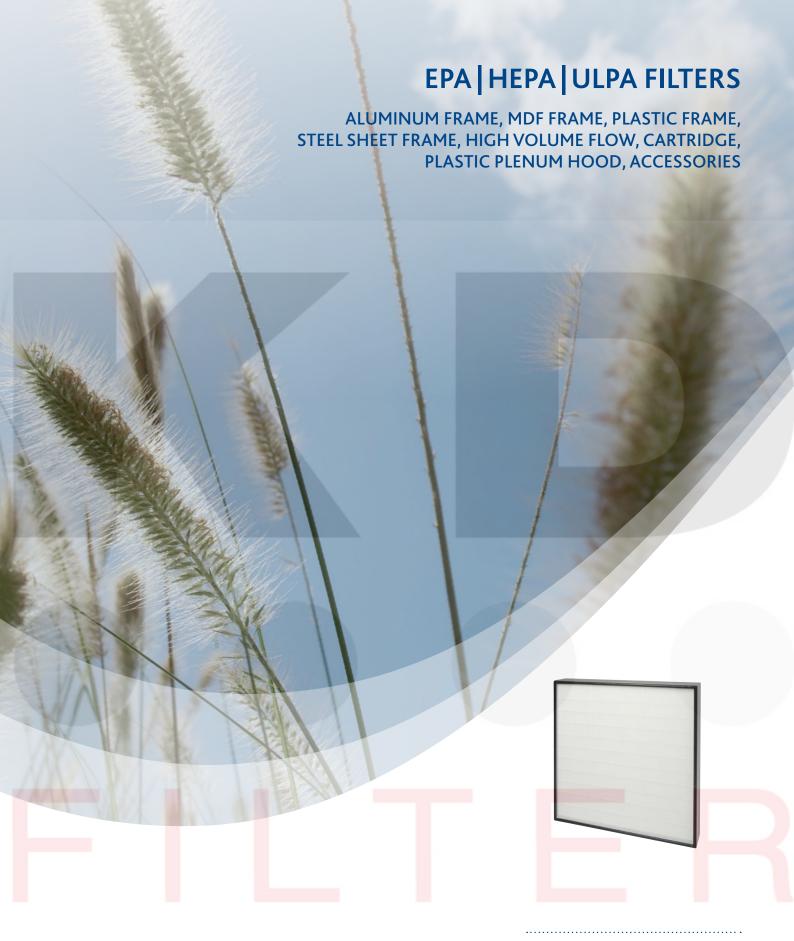
- MVP cassette filters excel in terms of a high dust holding capacity and low pressure drop values.
- Casting the dimensionally stable pleat package in the plastic frame assures a high degree of security against dust breakthrough over the entire operational lifetime.

Note

The MVP AX is available in versions to be used in explosive zones. Please get informed in detail about the current certificates of conformity.

EN 779:2012 ISO 16890

_				ME FLOW	DROP	<u>6</u>		PARTICUI	LATE MATTER EF [%]	FICIENCY
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUM [m³/h]	INITIAL PRESSURE [Pa]	FILTER CLASS ACC. EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10
MVP AX 85 1/2 V08X25-Z00N-B33	53568169	287×592×292	8.5	1,500	80	F7	ISO ePM2,5 70%	61	71	90
MVP AX 85 1/1 V08X25-Z00N-B33	53568166	592×592×292	18.0	3,400	80	F7	ISO ePM2,5 70%	61	71	90
MVP AX 95 1/2 V08X25-Z00N-C33	53568171	287×592×292	8.5	1,500	100	F8	ISO ePM1 70%	72	80	92
MVP AX 95 1/1 V08X25-Z00N-B33	53568167	592×592×292	18.0	3,400	100	F8	ISO ePM1 70%	72	80	92
MVP AX 98 1/2 V08X25-Z00N-D33	53568172	287×592×292	8.5	1,500	115	F9	ISO ePM1 85%	86	91	97
MVP AX 98 1/1 V08X25-Z00N-D33	53568168	592×592×292	18.0	3,400	115	F9	ISO ePM1 85%	86	91	97



Whether EPA, HEPA or ULPA filters: all Viledon® models guarantee effective protection for sensitive products and processes, by dependably arresting critical particles from intake and recirculating air flows in accordance with EN 1822. Even when subjected to high volume flows, they ensure optimum media velocity coupled with low pressure drop.

Simply scan the QR code and find out more about HEPA filters!



ALUMINUM FRAME | CONSTRUCTION DEPTHS 68 + 88 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in sensitive and highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

Features and benefits

- High-efficiency micro-glass-fiber papers are used as filter media.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- Protection grids on both sides made of powdercoated expanded metal.

Delivery notes

Customized dimensions and other filter classes are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFHCIENCY MPPS [%]
SF13-A-0305x0610x068x05-N13N	53417676	305×610×68	50	580	250	H 13	ISO 35 H	≥99,95
SF13-A-0305x0762x068x05-N13N	53417677	30 <mark>5×7</mark> 62×68	50	730	250	H13	ISO 35 H	≥99 <mark>,</mark> 95
SF13-A-0457x0457x068x05-N13N	53417679	457×457×68	50	660	250	H13	ISO 35 H	≥99,95
SF13-A-0545x0545x068x05-N13N	53444903	54 <mark>5×5</mark> 45×68	50	950	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0610x068x05-N13N	53417681	61 <mark>0×6</mark> 10×68	50	1,200	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0762x068x05-N13N	53417683	61 <mark>0×7</mark> 62×68	50	1,500	250	H13	ISO 35 H	≥99 <mark>,</mark> 95
SF13-A-0610x1220x068x05-N13N	53417686	610×1220×68	50	2,400	250	H13	ISO 35 H	≥99,95
SF13-A-1220x1220x068x05-N13N	53417688	1220×1220×68	50	5,000	250	H13	ISO 35 H	≥99,95
SF14-A-0305x0610x068x05-N13N	53411816	305×610×68	50	280	120	H14	ISO 45 H	≥99,995
SF14-A-0305x0610x088x07-N13N	53423973	305×610×88	70	300	90	H14	ISO 45 H	≥99,995
SF14-A-0545x0545x068x05-N13N	53417689	545×545×68	50	480	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x068x05-N13N	53411822	610×610×68	50	600	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x088x07-N13N	53411851	610×610×88	70	600	90	H14	ISO 45 H	≥99,995
SF14-A-0610x1220x068x05-N13N	53411835	610×1220×68	50	1,200	120	H14	ISO 45 H	≥99,995
SF14-A-0610x1220x088x07-N13N	53411853	610×1220×88	70	1,200	90	H14	ISO 45 H	≥99,995
SF14-A-1220X1220X068X05-N13N	53446679	1220×1220×68	50	2,500	120	H14	ISO 45 H	≥99,995

ALUMINUM FRAME | CONSTRUCTION DEPTH 78 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- · in ceiling outlets and modules for flexible cleanroom systems.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation, plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- · Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

Delivery notes

Customized dimensions and other filter classes are available on request.

				EN 1822:2009								
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]				
SF13-A-0305x0610x078x06-N13N	53424124	305×610×78	60	600	210	H 13	ISO 35 H	≥99.95				
SF13-A-0305x0762x078x06-N13N		3 <mark>05×</mark> 762×78	60	750	210	H13	ISO 35 H	≥99.95				
SF13-A-0457x0457x078x06-N13N	53419810	457×457×78	60	680	210	H13	ISO 35 H	≥99.95				
SF13-A-0545x0545x078x06-N13N	53525801	545×545×78	60	1,000	210	H13	ISO 35 H	≥99.95				
SF13-A-0610x0610x078x06-N13N	53419811	610×610×78	60	1,200	210	H13	ISO 35 H	≥99.95				
SF13-A-0610x0762x078x06-N13N		610×762×78	60	1,500	210	H13	ISO 35 H	≥99.95				
SF13-A-0610x1220x078x06-N13N	53419812	610×1220×78	60	2,400	210	H13	ISO 35 H	≥99.95				
SF14-A-0305x0610x078x06-N13N		305×610×78	60	280	100	H14	ISO 45 H	≥99.995				
SF14-A-0305x0762x078x06-N13N		305×762×78	60	360	100	H14	ISO 45 H	≥99.995				
SF14-A-0457x0457x078x06-N13N	53414850	457×457×78	60	335	100	H14	ISO 45 H	≥99.995				
SF14-A-0610x0610x078x06-N13N	53419813	610×610×78	60	600	100	H14	ISO 45 H	≥99.995				
SF14-A-0610x0762x078x06-N13N		610×762×78	60	750	100	H14	ISO 45 H	≥99.995				
SF14-A-0610x1220x078x06-N13N	53415898	610×1220×78	60	1,200	100	H14	ISO 45 H	≥99.995				

Subject to technical changes.

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM | PLEAT DEPTH 50 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all
 hygiene requirements of the German VDI Guideline 6022 "Hygiene
 requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

Delivery notes

Customized dimensions and other filter classes are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFHCIENCY MPPS [%]
SF13-A-0305x0610x150x05-N13N	53504395	30 <mark>5×6</mark> 10×150	50	580	250	H 13	ISO 35 H	≥99,95
SF13-A-0305x0762x150x05-N13N		30 <mark>5×7</mark> 62×150	50	730	250	H13	ISO 35 H	≥99 <mark>,</mark> 95
SF13-A-0457x0457x150x05-N13N	53483178	457×457×150	50	660	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0610x150x05-N13N		610×610×150	50	1,200	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0762x150x05-N13N		610×762×150	50	1,500	250	H13	ISO 35 H	≥99,95
SF13-A-0610x1220x150x05-N13N		610×1220×150	50	2,400	250	H13	ISO 35 H	≥99,95
SF14-A-0305x0610x150x05-N13N	53419150	305×610×150	50	280	120	H14	ISO 45 H	≥99,995
SF14-A-0305x0762x150x05-N13N		305×762×150	50	360	120	H14	ISO 45 H	≥99,995
SF14-A-0457x0457x150x05-N13N	53529614	457×457×150	50	335	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x150x05-N13N	53447039	610×610×150	50	600	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0762x150x05-N13N	53561555	610×762×150	50	750	120	H14	ISO 45 H	≥99,995
SF14-A-0610x1220x150x05-N13N	53431510	610×1220×150	50	1,200	120	H14	ISO 45 H	≥99,995

ALUMINUM FRAME | CONSTRUTION DEPTH 150 MM | PLEAT DEPTH 125 MM | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



Application

Viledon® EPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- · Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

Delivery notes

Subject to technical changes

Customized dimensions and other filter classes are available on request.

EN 1822:2009

ARTICLE	DIMENSIONS (W×L×D) [mm]	РЕАТ ОЕРТН [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF11-A-0305x0610x150x12-N13N	305×610×150	125	750	140	E11	ISO 15 E	95
SF11-A-0457x0457x150x12-N13N	457×457×150	125	850	140	E11	ISO 15 E	95
SF11-A-0610x0610x150x12-N13N	610×610×150	125	1,500	140	E11	ISO 15 E	95

ALUMINUM FRAME | CONSTRUCTION DEPTH 150 MM | PLEAT DEPTH 125 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated

Application

Viledon® HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- · Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.

Delivery notes

Customized dimensions and other filter classes are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-A-0305x0610x150x12-N13N	53504395	305×610×150	125	860	250	H13	ISO 35 H	≥99,95
SF13-A-0457x0457x150x12-N13N		457×457×150	125	950	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0610x150x12-N13N	53474179	610×610×150	125	1,750	250	H13	ISO 35 H	≥99,95
SF14-A-0305x0610x150x12-N13N		305×610×150	125	950	250	H14	ISO 45 H	≥99,995
SF14-A-0457x0457x150x12-N13N		457×457×150	125	1,100	250	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x150x12-N13N	53502176	610×610×150	125	2,000	250	H14	ISO 45 H	≥99,995

ALUMINUM FRAME | CONSTRUCTION DEPTH 292 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Semicircular PU profile, endlessly foamed
Protection grids	On both sides, steel grid, powder-coated



Application

Viledon® HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.)
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.)

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.

Delivery notes

Customized dimensions and other filter classes are available on request.

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ARTICLE	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFHCIENCY MPPS [%]
SF13-A-0305x0610x292x17-N13N	305×610×292	175	1,250	250	H13	ISO 35 H	≥99,95
SF13-A-0457x0457x292x17-N13N	457×457×292	175	1,400	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0610x292x17-N13N	610×610×292	175	2,600	250	H13	ISO 35 H	≥99,95
SF13-A-0610x0762x292x17-N13N	610×762×292	175	3,250	250	H13	ISO 35 H	≥99,95
SF14-A-0305x0610x292x17-N13N	305×610×292	175	1,100	230	H14	ISO 45 H	≥99,995
SF14-A-0457x0457x292x17-N13N	457×457×292	175	1,300	230	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x292x17-N13N	610×610×292	175	2,400	230	H14	ISO 45 H	≥99,995
SF14-A-0610x0762x292x17-N13N	610×762×292	175	3,000	230	H14	ISO 45 H	≥99,995

Subject to technical changes.

ALUMINUM FRAME | CONSTRUCTION DEPTH 80 MM | SILGEL SEAL | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	SilgelProtection grids: On both sides, steel grids, powder-coated; also available in a stainless steel version

Application

Viledon® HEPA filters of filter class H14 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- · Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Silgel seal for mounting systems with a sword profile.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.

Delivery notes

Customized dimensions and other filter classes are available on request.

	EN 1822:2009							
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W × L × D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF14-A-0305x0610x080x05-F13N	53434645	305×610×80	50	280	120	H14	ISO 45 H	≥99,995
SF14-A-0305x0762x080x05-F13N	53535195	305×762×80	50	360	120	H14	ISO 45 H	≥99,995
SF14-A-0457x0457x080x05-F13N	53439022	457×457×80	50	335	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0610x080x05-F13N	53428407	610×610×80	50	600	120	H14	ISO 45 H	≥99,995
SF14-A-0610x0762x080x05-F13N	53433125	610×762×80	50	750	120	H14	ISO 45 H	≥99,995
SF14-A-0610x1220x080x05-F13N	53429243	610×1220×80	50	1,200	120	H14	ISO 45 H	≥99,995

ALUMINUM FRAME | CONSTRUCTION DEPTH 80 MM | SILGEL SEAL | ULPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Extruded aluminum profile, anodized
Seal	Silgel
Protection grids	On both sides, steel grids, powder-coated; also available in a stainless steel version



Application

Viledon® ULPA filters of filter class U15 are used in intake and recirculating air filtration for cleanrooms and in laminar flow boxes with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- in ceiling outlets and modules for flexible cleanroom systems.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of extruded, anodized aluminum and is extremely solid and moisture-resistant.
- Viledon® HEPA filters are microbiologically inactive and meet all
 hygiene requirements of the German VDI Guideline 6022 "Hygiene
 requirements for HVAC systems and units".
- Easy handling and mounting thanks to high twist strength.
- The filter elements feature protection grids on both sides made of powdercoated expanded metal.
- Silgel seal for mounting systems with a sword profile.

Delivery notes

Customized dimensions and other filter classes are available on request.

						EN 1822:2009		
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF15-A-0305x0610x080x05-F13N		305×610×80	50	280	150	U 15	ISO 55 U	≥99,9995
SF15-A-0305x0762x080x05-F13N		305×762×80	50	360	150	U 15	ISO 55 U	≥99,9995
SF15-A-0457x0457x080x05-F13N		457×457×80	50	335	150	U 15	ISO 55 U	≥99,9995
SF15-A-0610x0610x080x05-F13N	53525727	610×610×80	50	600	150	U 15	ISO 55 U	≥99,9995
SF15-A-0610x0762x080x05-F13N		610×762×80	50	750	150	U15	ISO 55 U	≥99,9995
SF15-A-0610x1220x080x05-F13N	53449347	610×1220×80	50	1,200	150	U 15	ISO 55 U	≥99,9995

PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | EPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	> 3000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic; on request also with frame made from galvanized steel or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one side; on request with flat seal
Protection grids	Plastic, on both sides (N18N), with 200 mm pleat depth standard version without protection grid (N 10N)

Application

Viledon® EPA filters of filter class E 11 are used for intake, exhaust and recirculating air filtration of ventilation systems with special requirements for clean air quality, e.g.

- sophisticated air-conditioning applications (hospitals, labs, clean-rooms, museums, etc.),
- sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- downstream policing filters in dust removal applications.

Features and benefits

- The patented thermal embossing technique ensures the optimum V-shaped geometry and equidistance of the pleats and therefore maximum, homogeneous air passage at a very low pressure drop. This results in a remarkably economical and reliable operation.
- The frame consists of halogen-free plastic and is exceptionally distortion-resistant, moisture-resistant and fully incinerable.
- Viledon® EPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- · Easy handling and mounting, thanks to exceptionally low weight.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.

Delivery notes

Customized dimensions are available on request. Also available in 292 mm construction depth as MaxiPleat filters with and without a top frame.

						EN 1822:2009			
ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	HLTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO 1SO 29463	ARRESTANCE EFFICIENCY MPPS [%]	
SF11-K-0305x0305x150x10-N1 <mark>8N-F</mark> 45	53392321	305×305×150	100	440	160	E 11	ISO 15 E	≥95	
SF11-K-0457x0457x150x10-N10N-F45	53359319	457×457×150	100	1,100	160	E11	ISO 15 E	≥95	
SF11-K-0610x0610x150x10-N10N-F45	53360528	610×610×150	100	2,000	160	E11	ISO 15 E	≥95	
SF11-K-0610x0610x150x10-N18N-F45	53386630	610×610×150	100	2,000	160	E11	ISO 15 E	≥95	
SF11-K-0610x0305x292x20-N10N-F60	53352684	610×305×292	200	1,400	160	E11	ISO 15 E	≥95	
SF11-K-0610x0610x292x20-N10N-F60	53352648	610×610×292	200	3,000	160	E11	ISO 15 E	≥95	
SF11-K-0610x0762x292x20-N10N-F60	53357238	610×762×292	200	4,000	160	E11	ISO 15 E	≥95	
SF11-K-0610x0305x292x28-N18N-F60	53351145	610×305×292	280	1,600	160	E11	ISO 15 E	≥95	
SF11-K-0610x0610x292x28-N18N-F60	53351144	610×610×292	280	3,400	160	E11	ISO 15 E	≥95	
SF11-K-0610x0762x292x28-N18N-F60	53357518	610×762×292	280	4,300	160	E11	ISO 15 E	≥95	

Subject to technical changes.

PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	>3000 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	Halogen-free plastic; on request also with frame made of galvanized steel sheeting or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one-side; on request with flat seal
Protection grids	Plastic on both sides (N 18N), with 200 mm pleat depth standard version without protection grid (N 10N)



Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning applications (operating theatres / intensive care units in hospitals, labs, cleanrooms etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage, micro-electronics, etc.),
- in the treatment of dangerous substances (asbestos disposal, heavy metals, carcinogenic dusts, etc.),
- · in the preliminary filtration of turbomachinery.

Features and benefits

- The patented thermal embossing process ensures the optimum
 V-shaped geometry and equidistance of the pleats, and therefore
 maximum, homogeneous air passage at a very low pressure drop. This
 results in a remarkable economical and reliable operation.
- Each filter element is leakproofed in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of halogen-free plastic and is exceptionally distortion-resistant, moisture-resistant and fully incinerable. The patented design provides a high degree of security against the growth of bacteria and molds (permissible according to VDI 6022 in accordance with independent test certificates).
- Easy handling and mounting thanks to exceptionally low weight and a continuous, homogeneously foamed-on polyurethane gasket.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Meets the requirements laid down in EN 60335-2-69 for filters being used in dust-eliminating machines and equipment of dust class "H" (see table).

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PLASTIC FRAME | CONSTRUCTION DEPTHS 150 + 292 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper, highly resistant to moisture and oils
Bursting pressure	>3000 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Halogen-free plastic; on request also with frame made of galvanized steel sheeting or stainless steel sheeting
Seal	Semicircular PU profile, endlessly foamed, on one-side; on request with flat seal
Protection grids	Plastic on both sides (N 18N), with 200 mm pleat depth standard version without protection grid (N 10N)

Delivery notes

Customized dimensions and other filter classes are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m¹/h]	INITIAL PRESSURE DROP [Pa]	DUST CLASS	FILTER CLASS ACC. TO EN 1822:2009	FIITER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-K-0305x0305x150x10-N18N-H45	53357911	305×305×150	100	325	220		H13	ISO 35 H	≥99,95
SF13-K-0305x0305x292x20-N10N-H60	53380609	305×305×292	200	500	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0305x0305x292x28-N18N-G60	53358438	305×305×292	280	700	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0457x0457x150x10-N18N-H45	53361285	457×457×150	100	800	220		H13	ISO 35 H	≥99,95
SF13-K-0457x0457x292x20-N10N-H60	53352681	457×457×292	200	1,300	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0457x0457x292x28-N18N-G60	53353934	457×457×292	280	1,800	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0575x0575x150x10-N18N-H45	53440647	575×575×150	100	1,400	220		H13	ISO 35 H	≥99,95
SF13-K-0592x0592x292x28-N18N-G60	53378568	592×592×292	280	3,000	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0305x150x10-N18N-H45	53364637	610×305×150	100	700	220		H13	ISO 35 H	≥99,95
SF13-K-0610x0305x292x20-N10N-H60	53352680	610×305×292	200	1,100	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0305x292x28-N18N-G60	53351143	610×305×292	280	1,550	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0305x292x28-N18N-J60	53383118	610×305×292	280	1,800	330	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0457x292x20-N10N-H60	53367419	610×457×292	200	1,800	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0457x292x28-N18N-G60	53363063	610×457×292	280	2,500	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0610x150x10-N18N-H45	53392755	610×610×150	100	1,500	220		H13	ISO 35 H	≥99,95
SF13-K-0610x0610x292x20-N10N-H60	53352647	610×610×292	200	2,500	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0610x292x28-N1 <mark>8N-</mark> G60	53351139	610×610×292	280	3,400	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0610x292x28-N18N-J60	53383117	610×610×292	280	4,000	350	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0762x292x20-N10N-H60	53373991	610×762×292	200	3,150	250	Н	H13	ISO 35 H	≥99,95
SF13-K-0610x0762x292x28-N18N-G60	53373837	610×762×292	280	4,300	250	Н	H13	ISO 35 H	≥99,95
SF14-K-0305x0305x292x28-N18N-J60	53390438	305×305×292	280	375	150		H14	ISO 45 H	≥99,995
SF14-K-0457x0457x292x28-N18N-J60	53381017	457×457×292	280	900	150		H14	ISO 45 H	≥99,995
SF14-K-0610x0305x292x28-N18N-J60	53367662	610×305×292	280	850	150		H14	ISO 45 H	≥99,995
SF14-K-0610x0457x292x28-N18N-J60	53358594	610×457×292	280	1,250	150		H14	ISO 45 H	≥99,995
SF14-K-0610x0610x292x28-N18N-J60	53353557	610×610×292	280	1,700	150		H14	ISO 45 H	≥99,995
SF14-K-0610x0762x292x28-N18N-J60	53361167	610×762×292	280	2,150	150		H14	ISO 45 H	≥99,995

Subject to technical changes

MDF FRAME | CONSTRUCTION DEPTH 78 MM | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed



Application

Viledon® EPA filters of filter class E 11 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- · Protection grids on request.

Delivery notes

Subject to technical changes.

Customized dimensions are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF11-M-0305x0610x078x05-N10N		305×610×78	50	480	160	E11	ISO 15 E	≥95
SF11-M-0305x0762x078x05-N10N		305×762×78	50	600	160	E11	ISO 15 E	≥95
SF11-M-0457x0457x078x05-N10N		457×457×78	50	550	160	E11	ISO 15 E	≥95
SF11-M-0610x0610x078x05-N10N	53424911	610×610×78	50	1,000	160	E11	ISO 15 E	≥95
SF11-M-0610x0762x078x05-N10N		610×762×78	50	1,300	160	E11	ISO 15 E	≥95

MDF FRAME | CONSTRUCTION DEPTH 78 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed

Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.

EN 1822:2009

- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grid on request.

Delivery notes

Customized dimensions are available on request.

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ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-M-0305x0610x078x05-N10N	53441454	305×610×78	50	550	250	H13	ISO 35 H	≥99,95
SF13-M-0457x0457x078x05-N10N	53426194	457×457×78	50	630	250	H13	ISO 35 H	≥99,95
SF13-M-0610x0610x078x05-N10N	53514483	610×610×78	50	1,200	250	H13	ISO 35 H	≥99,95
SF13-M-0610x0762x078x05-N10N		610×762×78	50	1,500	250	H13	ISO 35 H	≥99,95
SF14-M-0305x0610x078x05-N10N	53447557	305×610×78	50	280	125	H14	ISO 45 H	≥99,995
SF14-M-0305x0762x078x05-N10N		305×762×78	50	350	125	H14	ISO 45 H	≥99,995
SF14-M-0457x0457x078x05-N10N	53424912	457×457×78	50	335	125	H14	ISO 45 H	≥99,995
SF14-M-0610x0610x078x05-N10N	53424924	610×610×78	50	600	125	H14	ISO 45 H	≥99,995
SF14-M-0610x0762x078x05-N10N		610×762×78	50	750	125	H14	ISO 45 H	≥99,995

Subject to technical

MDF FRAME | CONSTRUCTION DEPTH 150 MM | EPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed



Application

Viledon® EPA filters of filter class E 11 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive industrial processes,
- as final filters in ceiling air outlets.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- The frame consists of MDF (medium-density fiber board) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- · Protection grid on request.

Delivery notes

Subject to technical changes.

Customized dimensions are available on request.

EN	18	22	:20	009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	РLEAT DEРТН [mm]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE DROP [Pa]	FIJTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF11-M-0305x0610x150x12-N10N		305×610×150	125	750	140	E11	ISO 15 E	≥95
SF11-M-0305x0762x150x12-N10N		305×762×150	125	950	140	E11	ISO 15 E	≥95
SF11-M-0457x0457x150x12-N10N	53417782	457×457×150	125	850	140	E11	ISO 15 E	≥95
SF11-M-0610x0610x150x12-N10N		610×610×150	125	1,500	140	E11	ISO 15 E	≥95
SF11-M-0610x0762x150x12-N10N		610×762×150	125	2,100	140	E11	ISO 15 E	≥95

MDF FRAME | CONSTRUCTION DEPTH 150 MM | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	MDF
Seal	Semicircular PU profile, endlessly foamed

Application

Viledon® HEPA filters of filter classes H13 + H14 are used in intake, exhaust and recirculating air filtration in air-conditioning systems with stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters, intensive care units in hospitals, laboratories, cleanrooms, etc.),
- in sensitive and highly sensitive industrial processes,
- as final filters in ceiling air outlets.

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation plus a quasi-laminar outflow.
- Each filter element is tested for leak-proofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of MDF (medium-density fiber panel) and is fully incinerable.
- The entire filter element is non-corroding and easy to dispose of, as it is metal-free.
- Endlessly and homogeneously foamed-on polyurethane seal; on request also available with a flat gasket.
- Protection grids on request.

Delivery notes

Customized dimensions are available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	PLEAT DEPTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-M-0305x0610x150x12-N10N	53422592	305×610×150	125	820	250	H 13	ISO 35 H	≥99,95
SF13-M-0305x0610x292x20-N10N	53418223	305×610×292	200	1,000	250	H13	ISO 35 H	≥99,95
SF13-M-0457x0457x150x12-N <mark>10N</mark>	53417783	457×457×150	125	950	250	H13	ISO 35 H	≥99,95
SF13-M-0457x0457x292x20-N <mark>10N</mark>	53412195	457×457×292	200	1,100	250	H13	ISO 35 H	≥99 <mark>,</mark> 95
SF13-M-0610x0610x150x12-N10N	53418132	610×610×150	125	1,700	250	H13	ISO 35 H	≥99,95
SF13-M-0610x0610x292x20-N <mark>10N</mark>	53415773	610×610×292	200	2,000	250	H13	ISO 35 H	≥99,95
SF13-M-0610x0762x150x12-N10N		610×762×150	125	2,200	250	H13	ISO 35 H	≥99,95
SF13-M-0610x0762x292x20-N <mark>10N</mark>	53415895	610×762×292	200	2,750	250	H13	ISO 35 H	≥99,95
SF13-M-0610x1220x292x20-N10N	53528009	610×1220×292	200	4,000	250	H13	ISO 35 H	≥99,95
SF14-M-0305x0610x150x12-N10N		305×610×150	125	430	125	H14	ISO 45 H	≥99,995
SF14-M-0305x0610x292x20-N10N	53415065	305×610×292	200	600	160	H14	ISO 45 H	≥99,995
SF14-M-0457x0457x150x12-N10N	53467596	457×457×150	125	500	125	H14	ISO 45 H	≥99,995
SF14-M-0457x0457x292x20-N10N	53412196	457×457×292	200	680	160	H14	ISO 45 H	≥99,995
SF14-M-0610x0610x150x12-N10N	53469685	610×610×150	125	900	125	H14	ISO 45 H	≥99,995
SF14-M-0610x0610x292x20-N10N	53418588	610×610×292	200	1,280	160	H14	ISO 45 H	≥99,995
SF14-M-0610x0762x150x12-N10N		610×762×150	125	1,200	125	H14	ISO 45 H	≥99,995
SF14-M-0610x0762x292x20-N10N		610×762×292	200	1,620	160	H14	ISO 45 H	≥99,995

Subject to technical changes.

HIGH VOLUME FLOW | CONSTRUCTION DEPTH 292 MM | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Steel sheeting, galvanized; also available with a stainless steel frame
Seal	Semicircular PU profile, endlessly foamed, einseitig



Application

Viledon® high volume flow HEPA filters are used in intake, exhaust and recirculating air filtration in cleanrooms in air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters/intensive care units in hospitals and medical institutes, pharmacies, sterile rooms, labs, research centers, etc.),
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

Features and benefits

- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed, plus the V-shaped configuration
 of the pleat package, ensure a particularly large filtering area for
 maximum air flow rate per filter element together with homogeneous
 media velocity, coupled with a very low pressure drop. This means
 particularly cost-efficient and dependable operation with a very long
 lifetime.
- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame consists of galvanized steel or stainless steel sheeting and is extremely solid and moisture-resistant.
- Viledon® high volume flow HEPA filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guidelin 6022 "Hygiene requirements for HVAC systems and units".
- A continuous and homogeneously foamed-on profile gasket made of polyurethane. Also available with a flat gasket on request.
- The elements feature recessed grips at the side and a gripping lug for easier handling and installation.

Delivery notes

Also available as ULPA filter. Customized dimensions and variants available on request.

EN 1822:2009

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	NOMINAL VOLUME FLOW [m'/h]	INITIAL PRESSURE DROP [Pa]	FILTER CLASS ACC. TO EN 1822:2009	FILTER CLASS ACC. TO ISO 29463	ARRESTANCE EFFICIENCY MPPS [%]
SF13-B-0288x0288x292/V06x25-N10N	53438538	288×288×292	850	250	H13	ISO 35 H	≥99 <mark>,</mark> 95
SF13-B-0288x0593x292/V06x25-N10N	53412 <mark>638</mark>	288×593×292	1,800	250	H13	ISO 35 H	≥ <mark>99,</mark> 95
SF13-B-0305x0305x292/V06x25-N10N	53411 <mark>980</mark>	305×305×292	1,000	250	H13	ISO 35 H	≥99,95
SF13-B-0305x0610x292/V06x <mark>25-N</mark> 10N	53412 <mark>052</mark>	305×610×292	2,000	250	H13	ISO 35 H	≥99,95
SF13-B-0593x0593x292/V12x2 <mark>5-N</mark> 10N	53412644	593×593×292	3,600	250	H13	ISO 35 H	≥99,95
SF13-B-0610x0610x292/V10x <mark>25-N</mark> 10N	53412 <mark>060</mark>	610×610×292	3,400	250	H13	ISO 35 H	≥ 99, 95
SF13-B-0610x0610x292/V12x25-N10N	53412054	610×610×292	4,000	250	H13	ISO 35 H	≥99,95
SF13-B-0610x0762x292/V14x25-N10N	53412056	610×762×292	4,700	250	H13	ISO 35 H	≥99,95
SF14-B-0288x0288x292/V06x25-N10N		288×288×292	850	320	H14	ISO 45 H	≥99,995
SF14-B-0288x0593x292/V06x25-N10N	53417294	288×593×292	1,800	320	H14	ISO 45 H	≥99,995
SF14-B-0305x0305x292/V06x25-N10N	53415772	305×305×292	1,000	320	H14	ISO 45 H	≥99,995
SF14-B-0305x0610x292/V06x25-N10N	53418697	305×610×292	2,000	320	H14	ISO 45 H	≥99,995
SF14-B-0593x0593x292/V12x25-N10N	53429101	593×593×292	3,600	320	H14	ISO 45 H	≥99,995
SF14-B-0610x0610x292/V12x25-N10N	53412194	610×610×292	4,000	320	H14	ISO 45 H	≥99,995
SF14-B-0610x0610x292/V12x25-N13S-V27	53448417	610×610×292	5,000	450	H14	ISO 45 H	≥99,995

Subject to technical changes.

CARTRIDGE | EPA



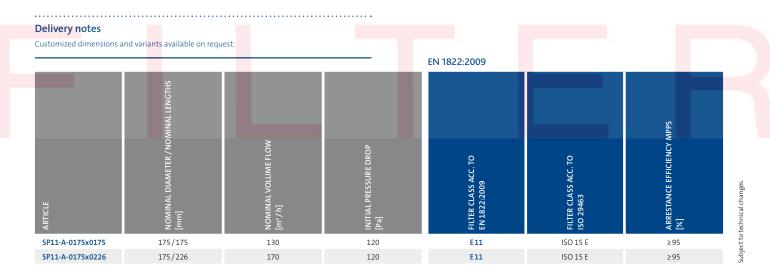
SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Sheathing	Expanded metal
Seal	Semicircular PU profile, foamed

Application

Viledon® EPA cartridge filters offer in a minimized space highly efficient arrestance in a compactly dimensioned unit. They are used for various applications in medical technology and the pharmaceutical industry.

Features and benefits

- · High-arrestance micro-fiber papers are used as filter media.
- Compactly dimensioned unit for highly efficient arrestance in a minimized space.
- The sheathing of powder-coated expanded metal protect the filter media from damage.
- Endlessly and homogeneously foamed-on polyurethane seal.
- Viledon® EPA cartridge filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".



CARTRIDGE | HEPA

SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100 % rel. hum.
Sheathing	Expanded metal
Seal	Semicircular PU profile, foamed



Application

Viledon® HEPA cartridge filters offer in a minimized space highly efficient arrestance in a compactly dimensioned unit. They are used for various applications in medical technology and the pharmaceutical industry.

Features and benefits

- Each filter element is tested for leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- · High-arrestance micro-fiber papers are used as filter media.
- · The sheathing of powder-coated expanded metal protect the filter media from damage.
- Endlessly and homogeneously foamed-on polyurethane seal
- Viledon® HEPA cartridge filters are microbiologically inactive and meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".

Delivery notes

Subject to technical changes.

Customized dimensions and vari<mark>ants</mark> available on request.

EN 1822:2009 ARRESTANCE EFFICIENCY MPPS [%] FILTER CLASS ACC. TO EN 1822:2009 FILTER CLASS ACC. TO ISO 29463 ISO 35 H SP13-A-0175x0175x033x02-N11N-J25 175/175 130 200 H13 ≥99,95 SP13-A-0175x0226x033x02-N11N-J25 175/226 170 200 H13 ISO 35 H ≥99,95

PLASTIC PLENUM HOOD | HEPA



SPECIFICATIONS	
Filter medium	Micro-glass-fiber paper
Initial pressure drop	at 0.45 m/s 140 Pa
Recommended final pressure drop	600 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.

Application

Viledon® HEPA filters / hood modules of filter class H 14 are used for intake and recirculating air filtration of cleanrooms and flexible cleanroom systems requiring the highest clean air quality and sterility, e.g.

- in hospitals/medical institutes, pharmacies, sterile rooms, laboratories, research centers, etc.,
- in highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

Features and benefits

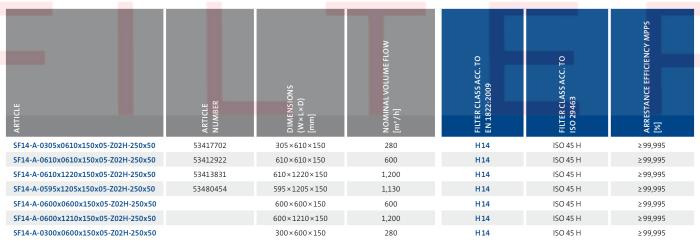
- The filter media used are high-arrestance micro-glass-fiber papers.
- The MiniPleat technology employed ensures flow-friendly geometry and equidistance of the pleats, with homogeneous media velocity coupled with a very low pressure drop. This means particularly cost-efficient and dependable operation, and a quasi-laminar outflow.
- Each filter element is tested using state-of-the-art scanning equipment for arrestance efficiency and leakproofing in accordance with EN 1822, and delivered together with the corresponding test certificate.
- The frame is made of extruded anodized aluminium, with an airtight, cast-in polystyrene plenum hood on the upstream side. An integrated perforated deflector plate equalizes the incoming air flow (minimum filter size 610×610 mm). The sturdy construction is moisture-resistant and offers high security against the growth of bacteria and moulds.
- Easy handling and mounting, as the units are distortion-resistant and exceptionally lightweight.
- The filter/hood modules feature a protection grid on the clean air side made from powder-coated expanded metal and a connection for measuring aerosol/pressure drop.

Delivery notes

On request also with integrated control and stop valve plus clean air side flat gasket Also available as ULPA filter of class U 15.

Customized dimensions (then with metal hood) available on request.

EN 1822:2009



Subject to technical changes.

ACCESSORIES | CEILING AIR OUTLETS | WITH CEILING CONNECTION PROFILE

SPECIFICATIONS	
Outlet housing	Extruded, anodized aluminum frame and deep-drawn plastic plenum made of polystyrene and cast in an airtight configuration, with round connection piece on the side; on request also available with a metal plenum and a connection at the top/side
Diffusor	As vortex flow outlet with adjustable air guide elements in powder-coated steel sheeting (RAL 9010), as a rectangular outlet with fixed-position guide fins in anodized aluminum or painted, as perforated-plate diffusor for low-turbulence displacement flow in anodized aluminum, painted, or stainless steel
Filter elements	Associated filter elements must be ordered separately. The ceiling air outlets are suitable for Viledon® HEPA filters with a 68, 78 or 88 mm deep aluminum frame and a foamed-on seal



Application

Viledon® filter ceiling air outlets are used for intake and recirculating air filtration of cleanrooms and air-conditioning systems with ultra-stringent requirements for clean air quality and sterility, e.g.

- in sophisticated air-conditioning technology (operating theaters/intensive care units in hospitals and medical institutes, labs, pharmacies, sterile rooms, research centers, etc.),
- In highly sensitive industrial processes (pharmaceuticals, biotechnology, chemicals, optics, food and beverage processing, micro-electronics, etc.).

Features and benefits

- The housings feature clamping devices for the filter elements and a port for measuring the raw gas concentration and the operational pressure drop.
- The construction is extremely solid and moisture-resistant.
- Viledon® ceiling air outlets meet all hygiene requirements of the German VDI Guideline 6022 "Hygiene requirements for HVAC systems and units".
- Easy handling and mounting, thanks to low weight and high twist strength.
- Filter replacement, cleaning and maintenance can be simply performed from the clean air side.

Delivery notes

On request also available with integrated control and stop valve. Customized dimensions (then with metal plenum) and variants available on request. Please order suitable filters as a separate item.

	ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×L×D) [mm]	DIMENSIONS OF MATCHING FILTERS (W×L×D) [mm]	DIFFUSOR	DIFFUSOR MATERIAL
	SFDLA-CA-0380x0380x355-EV-0-200-0-T	53425088	380×380×355	305×305×68/78/88	Vortex flow outlet	Powder-coated steel (RAL 9010)
	SFDLA-CA-0380x0685x380-LA-0-200-0-0	53424466	380×685×380	305×610×68/78/88	Rectangular outlet	Anodized aluminum
ges.	SFDLA-CA-0532x0532x390-LV-0-250-0-0	53427694	532×532×390	457×457×68/78/88	Rectangular outlet	Powder-coated steel (RAL 9010)
chan	SFDLA-CA-0620x0620x410-EV-0-250-0-0	53427199	620×620×410	545×545×68/78/88	Vortex flow outlet	Powder-coated steel (RAL 9010)
nical	SFDLA-CA0685x0685x420FX-0-250-0-0	53424467	685×685×420	610×610×68/78/88	Perforated-plate diffusor	Stainless steel
techi	SFDLA-CA-0685x0990x430-LV-Z-250-0-0	53427696	685×990×430	610×915×68/78/88	Rectangular outlet	Powder-coated steel (RAL 9010)
Subject to technical changes	SFDLA-CA-0685x1295x450-FX-0-250-0-0	53424468	685×1295×450	610×1220×68/78/88	Perforated-plate diffusor	Stainless steel
Subje	SFDLA-CA-0837x0837x450-LV-Z-250-0-0	53427698	837×0837×450	762×762×68/78/88	Rectangular outlet	Powder-coated steel (RAL 9010)

GAS PHASE FILTRATION

CHEMCONTROL MODULES, CHEMCONTROL PELLETS, HM MODULES, CHEMCONTROL SYSTEMS, CHEMWATCH, CARBOPLEAT / DUOPLEAT, CHEMCONTROL FILTERS, ACTIVATED-CARBON CARTRIDGES



CarboPleat activated-carbon and DuoPleat combination filters improve indoor air quality and protect people as well as sensitive products, processes and equipment, by eliminating or reducing pollutant gases and unwanted odors. Viledon® ChemControl pellets are used for the prevention of corrosion. They remove contaminant gases by means of adsorption, absorption and chemisorption.

Simply scan the QR code and find out more about gas phase filtration!



PELLETS | CHEMCONTROL PELLETS



SPECIFICATIONS	
Operating temperature	-20 up to +50 °C
Moisture resistance	10–95% rel. hum., non-condensing
Face velocity	0.3 – 2.5 m/s

Application

Viledon® ChemControl Pellets are used in different areas for the prevention of corrosion caused by acidic gases. Special pellets are used for ammonia and chlorine.

- · Paper and chemical pulp industrie
- Petrochemistry
- Mining
- Chemical industry
- Pharmaceutical industry
- Computer center
- Labs
- Microelectronics
- Fertilizer

CCP 104

Used for the prevention of corrosion caused by acidic gases. Remove contaminant gases by adsorption, absorption and chemisorption. Contain a minimum of 4% potassium permanganate to eliminate contaminants via oxidation reaction to inactive solids.

CCP 108

Used for the prevention of corrosion caused by acidic gases. Remove contaminant gases by adsorption, absorption and chemisorption. Contain a minimum of 8% potassium permanganate to eliminate contaminants via oxidation reaction to inactive solids.

CCP 210

Designed to remove or destroy airborne acidic gases by oxidation. Especially high reactivities and removal capabilities, even at high contaminant concentrations. Contain a mix of sodium and potassium permanganate at minimum 10% by weight.

CCP 310

Ideal for filtration of acidic gases in highly corrosive environments. Very effective in removing hydrogen sulfide, sulfur dioxide and chlorine. Porous structure based on activated alumina impregnated with activated carbon.

Delivery notes

 $Other Chem Control pellets are a {\color{red}vailable} on request-especially custom formulations with impregnations for specific gaseous contaminants.$

ARTICLE	NOMINAL DIAMETER/ NOMINAL LENGTHS [mm]	REMOVAL CAPACITY FOR H ₂ S OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR SO ₂ OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR CL, OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR NH ₃ OF OWN WEIGHT [%]	MOISTURE CONTENT (APPROX.) [%]	CRUSH STRENGTH (MINIMUM) [kg]
CCP 104	3.80	7	4			20	2
CCP 108	3.80	14	7			20	2
CCP 210	3.80	25	12			20	2
CCP 310	3.80	15	10	10		20	2

Subject to technical ch

PELLETS | CHEMCONTROL PELLETS

SPECIFICATIONS	
Operating temperature	-20 up to +50 °C
Moisture resistance	10–95 % rel. hum., non-condensing
Face velocity	0.3-2.5 m/s



CCP 510

Used especially for removal of gaseous halogens from airstreams. Capture chlorine, bromine and iodine by adsorption and absorption. Highly porous structure of activated alumina impregnated with active ingredients.

CCP 610

Used for the filtration of airborne contaminant gases e.g. hydrocarbons, VOCs, chlorine and nitrogen dioxide. Consist of virgin activated carbon with very high inner surface area to achieve excellent adsorption capacities. Very low resistance to airflow and long service life.

CCP 810

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 108 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 830

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 210 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 840

Blended pellets used for filtration of gaseous contaminants. 50:50 mix of CCP 310 and CCP 610 provides excellent adsorption, absorption and chemisorption.

CCP 903

Specifically used for removal of gaseous ammonia from airstreams. They capture ammonia by means of adsorption and absorption inside their zeolite structure.

Please note:

All application information provided are subject to on-site conditions, specific application requirements and potential alternating effects by combining several ChemControl Pellets in multi-stage units. Please consult your local Viledon® partner for further information.

Delivery notes

Other ChemControl pellets are available on request – especially custom formulations with impregnations for specific gaseous contaminants.

ARTICLE	NOMINAL DIAMETER/ NOMINAL LENGTHS [mm]	REMOVAL CAPACITY FOR H,S OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR SO ₂ OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR CL ₂ OF OWN WEIGHT [%]	REMOVAL CAPACITY FOR NH, OF OWN WEIGHT [%]	MOISTURE CONTENT (APPROX.) [%]	CRUSH STRENGTH (MINIMUM) [kg]
CCP 510	3,80			15		15	2
CCP 610	4×8					3	2
CCP 810	3,80 4×8	7	3	4			2
CCP 830	3,80 4×8	18	8	4			2
CCP 840	3,80 4×8	12	6	10			2
CCP 903	8				10		3

Subject to technical changes.

MODULES | CHEMCONTROL MODULES



SPECIFICATIONS	
Adsorption medium	e.g. ChemControl Pellets
Operating temperature	<50 °C
Thermal stability (plastic)	120 °C
Moisture resistance	< 60% rel. hum.
Frame	plastic, black
Removable caps	plastic, black

Applications

Viledon® ChemControl Modules are the rugged plastic housings that contain our chemical filtration pellets. They come in a range of four sizes to suit all applications and are designed for easy handling and replacement. They can be supplied pre-filled, direct from our production facilities, or refilled via their easy-access removable caps.

The design of your system will determine which size of module you require. Factors that need to be taken into consideration include available space, airflow volumes, type and concentration of contaminants and desired media life.

Features and benefits

Proven performance and low whole-life costs. As with all Viledon® products, our ChemControl Modules offer excellent airflow performance with low pressure drops. We have designed our modules to minimize maintenance time and reduce whole-life costs.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	DIMENSIONS (L×W×D) [mm]	WEIGHT [kg]	DE PTH [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]
CCM 1810	598×438×144	3.4	25.4	600	35
CCM 1210	598×295×299	2.9	76	600	180
CCM 1805	299×438×144	2	25.4	300	35
CCM 1205	299×295×299	1.8	76	300	180

Subject to technical ch

MODULES | HM MODULES

SPECIFICATIONS	
Adsorption medium	Versacomb™ media
Operating temperature	<50 °C
Thermal stability	76 °C
Recommended Humidity	< 60 % rel. hum.
Moisture resistance	99% rel. hum., non-condensing



The Viledon® HM® modules are an assembly of Versacomb™ media housed in either a plastic or metallic frame for removing gas phase contaminants from outdoor or recirculated air. The module is available in nominal depths of one, two, four and six inches as standard. Viledon® HM® modules are designed to fit in a side-access filter rack or a Type 8 filter frame, and are available with or without a header.

Versacomb™ media is the technology inside Freudenberg's revolutionary Honeycomb Matrix (HM®) activated carbon modules. This media represents the future shape of air purification technology. The media has parallel square channels that pass through the block to provide a pathway for fluid flow. These channels are separated by walls of carbon powder, less than 1 mm thick, that are held in place by ceramic binders. This structure greatly reduces the maximum distance between the carbon and the bulk flow of the process air. The reduced length allows highly efficient interaction between the carbon and the air during operation at elevated velocities.

Applications

Refineries, petrochemical plants, electric centers, paper mills, wastewater treatment plants, museums, archives, hospitals, data centers, break rooms, laboratories, commercial and industrial offices.

Features and benefits

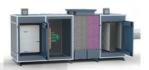
- Provides protection from gas phase contaminants.
- Can be installed in a standard filter track.
- · Can be mounted horizontally or vertically.
- · Frame options: Stainless steel and plastic are available for most sizes.
- Can be used at face velocities up to 2.5 m/s.
- By weight removal capacity of up to 40 % for H_2S , 4 % for Cl_2 , 9 % for Toluene and 13 % for Xylene.
- · Easy to install (no need for vacuum trucks).
- Economical and energy-efficient.

Delivery notes

Customized dimensions available on request.

ARTICLE	DIMENSIONS (L×W×D) [mm]	WEIGHT [kg]	GASKETING THICKNESS [mm]
GPF HM 1138P2338V175U2P0	289×594×44*	2.2	
GPF HM 2338P2338V175U2P0	594×594×44*	4.3	
GPF HM 2338M2338V380U2P0	594×594×99*	9.3	
GPF HM 1950M1950V380U2P0	495×495×99*	7.7	
GPF HM 1369H1369V600U2P2	348×348×152*	5.8	6.35

SYSTEMS | CHEMCONTROL DEEP-BED PRESSURIZATION UNITS



Housing	Plastisol inner/outer skin panels, with aluminum extrusion frame, alternatively stainless steel constructions available				
Prefiltration	e.g. Viledon® Compact pocket filters				
Adsorption medium	ChemControl Pellets, as deep bed stage or with ChemControl Modules				
Fine filtration	e.g. Viledon® MaxiPleat cassette filters				
Fan	energy-saving EC motor, meeting the ErP 2015 directive for increased minimum efficiency ratings				

Application

Many industrial processes generate contaminant gases that can cause corrosion. Even minor damage to electronic components can have serious consequences, e.g. fault signals, unplanned downtime, high repair costs. The Viledon® ChemControl Deep-Bed Pressurization Units (DBPU) are multi-stage filtration systems that reliably provide complete protection against corrosion. The Viledon® DBPUs are used for medium to high concentrations of gaseous contaminants. The system is placed outside the protected area and supplies purified air into it. Hence, the Viledon® DBPUs provide a positive pressure inside the proteced area. They are particularly designed for paper mills, refineries, smelters, steel and chemical plants. In the Viledon® DBPU, Viledon® Compact pocket filters are used in the pre-filtration stage. Viledon® MaxiPleat cassette filters ensure secure fine filtration. The progressive media design, moisture resistance up to 100% relative humidity (no risk of filter collapse) and high dust holding capacities result in improved energy consumption over generic industry filters due to homogeneous air flow coupled with a low average pressure drop.

Features and benefits

- Boxed anodized aluminum pentapost frame and high strength 30 mm double skin plastisol panels as standard offer reduced leakage rates of L3 in accordance with EN1886, compared to single skin products.
- High quality assembly ensures a smooth interior surface, thereby minimizing frictional losses and providing a positive air seal where panels are fitted to the frames.
- Units equipped with two deep bed stages; optionally availabe with third or fourth stage for higher gas concentrations.
- Panel construction offers increased acoustic properties over single skin versions with a case reduction index as follows:
- Frequency Hz:
- 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k
- Casing reduction index: -
- -11 | -14 | -14 | -24 | -25 | -25 | -25 | -23
- Integrated pressure gauges allow clear monitoring onsite.
- · Internal and external weatherproof designs available.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	CONSTRUCTION	AIR INTAKE	AIR OUTLET	AIR VOLUME [m/h]	NUMBER OF PRE-FILTERS	NUMBER OF FINE FILTERS	OVERALL UNIT HEIGHT (EXCLUDES REFILL PORTS) [mm]	OVERALL UNIT WIDTH (EXCLUDING CONTROL PANEL)** [mm]	OVERALL UNIT LENGTH (EXCLUDING DUCT CONNECTIONS) [mm]	OVERALL WEIGHT (EXCLUDING FILTERS AND PELLETS)*** [kg]	POWER CONSUMPTION AVERAGE [kW]	CONTROL PANEL
DBPU 1000 Indoor	Plastisol inner/outer doubleskin panels, with aluminum extrusion frame*	Duct	Duct	1,000	1	1	1,076	700	3,700	400	1,35	IP 54
DBPU 3000 Indoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Duct	Duct	3,000	4	4	1,576	1,280	3,700	700	2.30	IP 54
DBPU 6000 Indoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Duct	Duct	6,000	9	9	2,176	1,900	3,700	900	4,70	IP 54
DBPU 1000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	1,000	1	1	1,076	700	3,700	420	1.35	IP 66
DBPU 3000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	3,000	4	4	1,576	1,280	3,700	740	2,30	IP 66
DBPU 6000 Outdoor	Plastisol inner/outer double skin panels, with aluminum extrusion frame*	Louvre	Duct	6,000	9	9	2,176	1,900	3,700	960	4.70	IP 66

- * Stainless steel construction available. All units are supplied as standard in one section. Section breaks can be added as an option.
- ** Customized unit dimensions are available on request.
- *** All units are optionally available with Viledon® CCM 1205 modules

SYSTEMS | CHEMCONTROL RECIRCULATION UNITS

SPECIFICATIONS	
Housing	Plastisol inner/outer skin panels, with aluminum extrusion frame, alternatively stainless steel constructions available
Prefiltration	e.g. Viledon® pocket filters
Adsorption medium	ChemControl Modules filled with ChemControl Pellets
Fine filtration	e.g. Viledon® MaxiPleat cassette filters
Fan	energy-saving EC motor, meeting the ErP 2015 directive



Application

Many industrial processes generate contaminant gases that can cause corrosion. Even minor damage to electronic components can have serious consequences, e.g. fault signals, unplanned downtime, high repair costs. The Viledon® ChemControl Recirculation Unit (CRU) and the Viledon® ChemControl Recirculation Pressurization Unit (CRPU) are multi-stage filtration systems that reliably provide complete protection against corrosion

In both systems, Viledon® Compact pocket filters are used in the pre-filtration stage. Positioned before and after the fan, the Viledon® ChemControl Modules with pellets eliminate harmful gases. Viledon® MaxiPleat cassette filters ensure secure fine filtration. Integrated pressure gauges allow for reliable monitoring onsite.

Viledon® CRU: The 'recirculating air filtration' system

The Viledon® ChemControl Recirculation Unit (CRU) is a system fully based on recirculated air filtration. This makes it an ideal addition for rooms that are supplied with filtered air and maintained at positive pressure using a Viledon® ChemControl Deep-Bed Pressurization Unit (DBPU).

Viledon® CRPU: The 'outside air + recirculating air filtration' system for overpressure generation

Using an admixture of outside air, the Viledon® ChemControl Recirculation Pressurization Unit (CRPU) can maintain a slight positive pressure within the room to be protected. At moderate concentrations of corrosive gases, the Viledon® CRPU can be operated without the use of a Viledon® ChemControl Deep-Bed Pressurization Unit.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	NOMINAL VOLUME FLOW [m²/h]	DIMENSIONS (H×W×D) [mm]	WEIGHT [kg]	NUMBER OF MODULES PER STAGE	NUMBER OF PRE-FILTERS	NUMBER OF FINE FILTERS	POWER CONSUMPTION AVERAGE [kw]
VILEDON CRU*							
CRU 1800 DW	1,800	2600×750×750	550	4	1	1	0.8
CRU 1800 DW stainless steel**	1,800	2600×750×750	580	4	1	1	0.8
CRU 3600 DW	3,600	2600×1500×750	650	8	2	2	1.3
CRU 3600 DW stainless steel**	3,600	2600×1500×750	680	8	2	2	1.3
VILEDON CRPU*							
CRPU 1800 DW	1,800	2600×750×750	560	4	1	1	0.8
CRPU 1800 DW stainless steel**	1,800	2600×750×750	590	4	1	1	0.8
CRPU 3600 DW	3,600	2600×1500×750	660	8	2	2	1.3
CRPU 3600 DW Edelstahl**	3,600	2600×1500×750	690	8	2	2	1.3

- Standard casing: double wall casing ensuring low noise, manufactured using alumina corners and panels with plastisol coating.
- ** Stainless steel casing also available as single wall (SW) model.

SYSTEMS | HM UNITS



SPECIFICATIONS	
Housing	Plastisol inner/outer skin panels, with aluminum extrusion frame, alternatively stainless steel constructions available
Prefiltration	e.g. Viledon® pocket filtersAdsorption medium: HM® modules
Fine filtration	e.g. Viledon® MaxiPleat casette filters
Fan	energy-saving EC motor, meeting the ErP 2015 directive

The Viledon® HM® Unit Series 500HM, 1000HM and 2000HM are complete, skid-mounted systems used to control organic and inorganic gaseous contaminants by activated carbon adsorption and chemical reaction.

They provide highly purified makeup air for pressurizing control rooms to prevent the intrusion of contaminated air.

Each system is pre-engineered and includes a fan, a particulate pre-filter, four passes of activated carbon HM^{\otimes} modules with VersacombTM media and a particulate final filter.

Application

- Refineries
- Petrochemical plants
- Electric centers
- Paper mills
- · Wastewater treatment plants
- Museums
- Archives
- Hospitals
- Data centers
- Break rooms
- Laboratories
- Commercial and industrial offices

Features and benefits

- Versacomb[™] media provide protection from corrosive gases e. g. H₂S, SO, and Cl₂.
- · Suitable for the adsorption of hydrocarbons and VOCs.
- Open honeycomb structure leads to fast reaction kinetics combined with a low pressure drop.
- The media can be engineered to meet specific performance requirements such as pressure drop, maximum face velocity and residence time.

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ARTICLE	AIR VOLUME [M/H]	DIMENSIONS (H×W×D) [MM]	NUMBER OF HM MODULES	wеіснт, емрту [кG]	WEIGHT, WITH MODULES [KG]
500HM	860	2045×730×610	4	147	176
1000HM	1,700	1496×1321×1016	8	293	351
2000HM	3.400	1591 x 1778 x 1143	16	395	511

CHEMWATCH | ONLINE MONITORING SYSTEM

SPECIFICATIONS	
Dimensions (W×H×D)	180×180×85 mm
Weight	1100 g
Operating temperature	0-50°C
Relative humidity	10-95%



Application

The ChemWatch Online Monitoring System measures and monitors the corrosivity of air in rooms via copper and silver sensors. Corrosivity is usually caused by acid gases such as H,S, SO₃, SO₃, Cl₃, Cl₃O, NO₄, or NH₃.

The online monitoring system is suitable to measuring corrosive gases in the range from low ppb to a maximum of 1 to 3 ppm. The sensors are consumed as they measure the corrosivity and thus need to be replaced from time to time. The corrosion rate is determined according to ANSI/ISA-71.04-2013.

Measurements

- Corrosion rate (Copper and Silver)
- Temperature
- Relative humidity
- Differential pressure (positive pressure)

Features and benefits

- Large color display for clear visibility of all measurements at a glance.
- Optimal data information thanks to graphically visualized G-classification.
- Data transfer via LAN, WiFi or Bluetooth to PC, control station, or Smartphone.
- · Large data storage capacity with data history.
- · Unsusceptible to vibrations.
- Precise corrosion rates independent from temperature fluctuations.
- · All measured values logged directly from the beginning.
- Easy adjusting of individual measuring tasks directly at the instrument or via PC.
- · CE mark.
- 8 standard languages: English, Chinese, French, German, Italian, Japanese, Portuguese and Spanish (additional languages are available on request)
- The user can create notes which can be linked to the measured data.
- Metric and imperial units available.

Equipment

- Measuring instrument
- 1 set of corrosion sensors copper and silver
- Software for data visualization and analysis (e.g. diagrams)
- SD-card for maximum data logging capacity and easy software updates
- · Detailed operating instruction in several languages
- · Power supply unit including adapter set for all common outlets

Delivery notes

Subject to technical changes

WiFi or Bluetooth modules can be inserted into the instrument as an option.

ARTICLE	ARTICLE
ChemWatch Instrument	53496605
ChemWatch Cu Sensor	53496606
ChemWatch Ag Sensor	53496607

CARBOPLEAT | FINE DUST



<30 °C
70 °C
< 60 % rel. hum.

Application

CarboPleat activated-carbon and DuoPleat combi filters improve the air quality in indoor environments and protect both people and sensitive products, processes and lines, by eliminating or reducing environmental pollutants and unwanted odors.

Features and benefits

The activated-carbon media of both filters are fixed in place using a special bonding process, and provide a maximum of active surface area for efficient gas adsorption. DuoPleat combi filters simultaneously provide particle filtration of class M6, thanks to their additional 3-layered high-performance nonwoven on the face side. The large filtering area and the special structure of the filter media involved create not only a particularly high holding capacity and a long operational lifetime, but also very low pressure drop. The filter capacities are measured according to DIN 71460-2 and refer to a gas breakthrough of 95% for toluene and n-butane, and 90% for SO₂. The concentration of the test gas is 80 ppm, (toluene and n-butane) or 30 ppm (SO₂).

EN 779:2012	ISO 16890

		SN	WO	DROP	2 .5	: CAPACITY : NE	CAPACITY	CAPACITY ANE			PARTICULATE ATTER EFFICIEN [%]	
ARTICLE	ARTICLE NUMBER	DIMENSION (W×H×D) [mm]	NOMINAL VOLUME FL [m³/h]	INITIAL PRESSURE [[Pa]	FILTER CLASS ACC. TO EN 779:2012	FILTER CAPA TOLUENE [g]	FILTER CAPA SO ₂ [g]	FILTER CAPA N-BUTANE [g]	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10
CP 1/1	53538274	592×592×292	3,400	70		753	118	48			-	
CP 5/6	53538276	592×490×292	2,700	70		610	95	40				
CP 1/2	53538275	592×287×292	1,500	70		340	55	25				
DP85 1/1	53541780	592×592×292	3,400	130	M6	551	89	41	ISO ePM10 80%	43	54	82
DP85 5/6	53541782	592×490×292	2,700	130	M 6	450	75	35	ISO ePM10 80%	43	54	82
DP85 1/2	53541781	592×287×292	1,500	130	M 6	245	40	20	ISO ePM10 80%	43	54	82

CHEMCONTROL FILTERS

SPECIFICATIONS	
Recommended duty temperature	<30 °C
Thermal stability	50 °C
Recommended duty humidity	< 60 % rel. hum.



Application

Subject to technical changes.

Viledon® ChemControl Filters of the CCF range provide an optimum solution for integrating chemisorptive filter media into conventional air handling systems.

Features and benefits

The chemisorptive components are mainly based on permanganate impregnated structures with basis weights of either 500 or 1,000 g per square meter. The permanganate is highly reactive against acidic gases such as hydrogen sulfide and sulfur oxides, formaldehyde, mercaptans and other inorganic contaminant gases. The chemisorptive principle of operation avoids any desorption as it is known with activated carbons which are working on physical adsorption principles. These filters can easily be integrated in air handling units to supply relatively large amounts of make-up air into protected areas such as data centers and microelectronic production facilities. Depending on the concentrations of contaminant gases, the ChemControl Filters can be used in styles with different amounts of chemisorptively active permanganates.

ARTICLE	DIMENSIONS (W×L×D) [mm]	FILTER AREA [m³]	CONTENT OF PERMANGANATE SUBSTRATE [kg]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]	GASES
CCF 1000-B-P	592×592×292	11	11	3,400	160	H ₂ S, SO ₂ , Mercaptane, Formaldehyd
CCF 500-B-P	592×592×292	11	5.8	3,400	160	H ₂ S, SO ₂ , Mercaptane, Formaldehyd
CCF 1000-P-P	592×592×292	8	8	3,400	130	H ₂ S, SO ₂ , Mercaptane, Formaldehyd
CCF 500-P-P	592×592×292	8	4.1	3,400	130	H ₂ S, SO ₂ , Mercaptane, Formaldehyd

CHEMCONTROL CANISTERS



SPECIFICATIONS	
Adsorption medium	ChemControl pellets
Canister sheathing	Plastic, galvanized steel or stainless steel
Operating temperature	<50 °C
Relative humidity	< 95%
Contact time	>0.1 s

Application

Viledon® ChemControl canisters are filled with ChemControl pellets and are used in various areas to remove odors and prevent corrosion by acid gases, such as:

- in industrial processes (pulp and paper industry, petrochemicals, chemicals, pharmaceuticals, fertilizers, etc.)
- in sophisticated air-conditioning systems (mining, microelectronics, laboratories, computer centers, airports, archives, offices, restaurants, etc.)

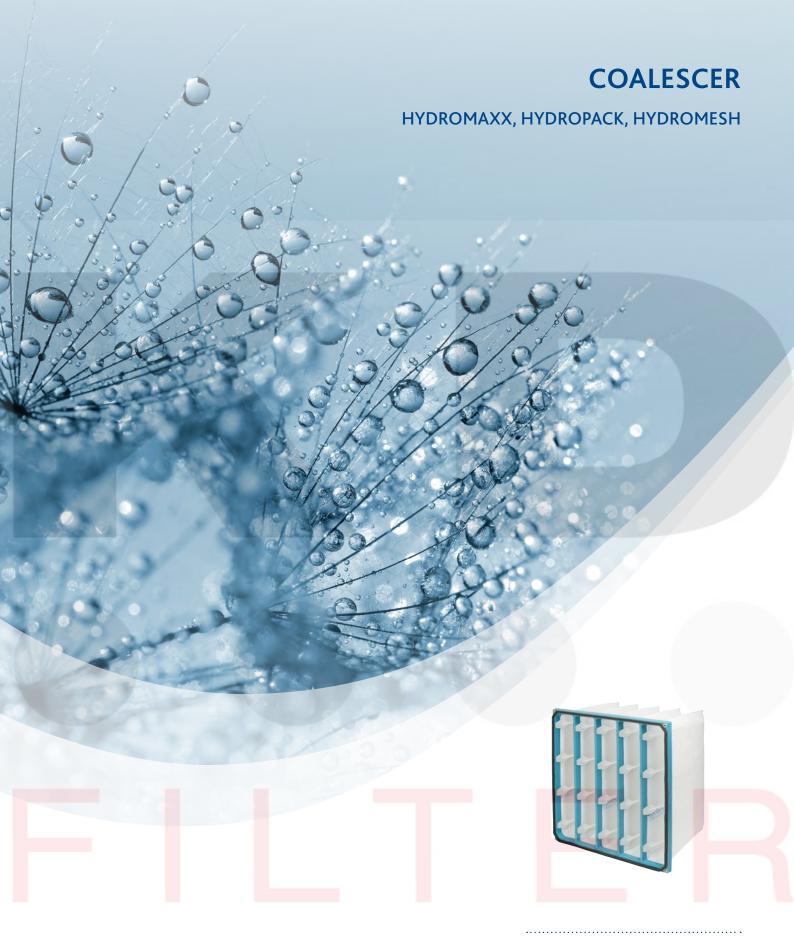
Features and benefits

- Viledon® ChemControl canisters are characterized by excellent airflow performance and low pressure drop.
- High functional dependability due to the dimensionally stable construction of the entire canister.
- Compact single elements with universal three-point bayonet connection for easy handling and installation.
- The canisters can be filled with different Viledon® ChemControl pellets depending on the application and requirement. The thickness of each pellet layer is 26 mm.
- In addition to activated carbon pellets for removing hydrocarbons and VOCs, the canisters can also be filled with special pellets to remove acidic gases, ammonia or chlorine.
- Viledon® canisters are available in two lengths and can be ordered prefilled or for on-site filling. Matching galvanized steel mounting frames can be purchased separately.
- Thanks to the removable lid, the canisters can be refilled and used multiple times.

Delivery notes

Please consult your local Viledon® partner for further information.

ARTICLE	CARTRIDGE FILLING	OPTIMIZED FOR	DIAMETER (OUTER) [mm]	DIAMETER (INNER) [mm]	LENGTH (mm)	NOMINAL VOLUME FLOW [m²/h]
CAN26-104	CCP 104	Acidic gases	145	93	450	162
CAN26-108	CCP 108	Acidic gases	145	93	450	162
CAN26-310	CCP 310	Acidic gases	145	93	450	162
CAN26-510	CCP 510	chlorine	145	93	450	162
CAN26-660	CCP 660	Odours/organic solvents	145	93	450	162
CAN26-903	CCP 903	ammonia	145	93	450	162
CAN35-104	CCP 104	Acidic gases	145	93	600	218
CAN35-108	CCP 108	Acidic gases	145	93	600	218
CAN35-310	CCP 310	Acidic gases	145	93	600	218
CAN35-510	CCP 510	chlorine	145	93	600	218
CAN35-660	CCP 660	Odours/organic solvents	145	93	600	218
CAN35-903	CCP 903	ammonia	145	93	600	218



Coalescing filters offer optimal protection against penetrating water and salt, especially in offshore or coastal environments and in many other locations with high humidity. As pre-filters with special drainage properties, they prevent water droplets from passing through the subsequent filter stages.

Simply scan the QR code and find out more about coalescer!



COALESCER

HYDROMAXX POCKET FILTERS | COARSE DUST



SPECIFICATIONS	
Filter medium	Hydrophobic polyester fibers
Recommended final pressure drop	375 Pa
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Polyurethane

Application

Viledon® hydroMaxx reverse pocket filters are the next generation of coalescer filters following the field-proven F 45 R pocket filter range. Offering high operational reliability and cost-efficiency they are ideally suited for intake air prefiltration at coastal, offshore and other high humidity locations of

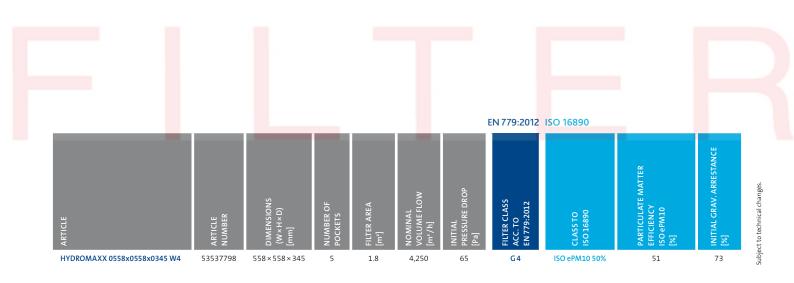
- gas turbines in power generation and in the oil and gas industry
- compressors and diesel and gas engines

Features and benefits

hydroMaxx pocket filters offer **four main benefits** in one filtration concept.

 The reverse media's hydrophobic, progressive nonwoven composition functions as a reliable coalescer for water droplets and high humidity.
 This feature enables the water droplets to combine and drain down from the vertical pockets. Thus salt and hydrocarbon ingress will be substantially reduced.

- 2. Superior dust handling. Thanks to the reverse media concept, dust is not readily stored as in a traditional pocket filter. The hydroMaxx utilizes a self-supporting, integrated cage system to optimize performance.
- 3. Maximized functional reliability thanks to the leak-proof welded edge configuration of the filter pockets, foam-sealed into a PUR front frame, and dimensionally stable construction of the filter element as a whole.
- 4. Various 2-in-1 filtration system solutions based on the unique Viledon® modular "clip-on" system. This design allows close coupling to either the intermediate or the final filter without any structural modifications
- The integrated plastic support cage ensures optimum stability as well as easy, timesaving mounting or change of the filter element.
- Pre-installed couplings at the four corners can be used for combination with other pre- or final filters by using the patented Viledon® modular "clip-on" system.



COALESCER

HYDROPACK FILTER CELLS | COARSE DUST

SPECIFICATIONS	
Frame material	plastic
Thermal stability	up to 70 °C
Moisture resistance	up to 100% rel. hum.



Application

hydroPack MP 45 KTC-W filter cells are used for intake air filtration of

- gas turbines in power generation and in the oil and gas industry
- compressors and diesel and gas engines.

Here they extend the useful lifetimes of the downstream high-performance filters.

Features and benefits of hydroPack MP 45 KTC-W

- A water barrier at the bottom of the filters back side reduces intaken water from reaching the clean-air side. This ensures enhanced prefilter lifetime and protection of the downstream filter stage.
- Thanks to coalescing properties ideally suited for applications where filters are exposed to constant waterspray or fogging.
- hydroPack MP 45 KTC-W Filters are fully-potted resulting in a leak-free construction.
- The entire filter element is metal-free and thus non-corroding and fully incinerable.
- The filter cells are moisture-resistant up to 100% rel. humidity and thermally stable up to 70 °C. The filtermedium is self-extinguishing to DIN 53438 (Fire class F 1).
- Besides the standard version without gasket, hydroPack filter elements
 are optionally available with a glued on gasket, either gasket on the
 downstream side (same side as water barrier) or gasket on the
 upstream side (opposite side of the water barrier).

hydroPack 0555x0555x096-W10N has couplings for the Viledon® modular system integrated into the frame.

MP 45 KTC-W-0595x0595x096-Z00N-hydroPack is mounted by spring clips on the carrier filter.

EN 779:2012 ISO 16890 FILTER CLASS ACC. TO EN 779:2012 Subject to technical changes MP 45 KTC-W-0595x0595x096-Z00N-hydroPack 53534826 595 × 595 × 96 Plastic 2.2 4,250 G4 ISO coarse 65% hydroPack 0555x0555x096-W10N 2.0 4,250 80 G4 ISO coarse 65% 53552693 555×555×96

COALESCER

HYDROMESH METAL FILTERS | COARSE DUST



SPECIFICATIONS	
Frame material	aluminium (AlMg3) or stainless steel
Protection grid	Expanded metal aluminium (AIMg3)
Moisture resistance	up to 100 % rel. hum.

Application

hydroMesh coalescer filters apply for moisture separation used in intake air filtration systems of

- gas turbines for power generation and in the oil and gas industry
- compressors
- offshore and coastal installations
- installations with recurrent high humidity

Features and benefits

- hydroMesh coalescer are suitable for prefiltration of pulse-jet cartridge systems in very dusty environments that are also characterized by high humidity (e.g. coastal sites in desert areas) or by water ingress.
- They protect the downstream filter stages reliably and remove moisture.
- Can be used as a coarse dust (e.g. sand) prefilter in static filter systems.



ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	NOMINAL VOLUME FLOW [m²/h]	INITIAL PRESSURE DROP [Pa]
hydroMesh Coalescer AlMg3 610x305x25 mm	53541448	610×305×25	1,700	40
hydroMesh Coalescer AlMg3 610x610x25 mm	53541447	610×610×25	3,400	40

PULSE-JET, DEPTH-LOADING FILTERS



Viledon® pulse-jet filter cartridges and depth-loading filter cartridges achieve optimum results in intake air filtration for turbomachinery. Pulse-jet filter cartridges are, for instance, the ideal solution for pulse-jet systems, where very high dust concentrations and/or fine, pourable dusts predominate.

Simply scan the QR code and find out more about filter cartridges!



PULSE-JET | FINE DUST



SPECIFICATIONS	
Filter medium	GTS: high-performance nonwoven with water-repellent coating made of synthetic microfibers; GTB: blended synthetic micro-fiber nonwoven with water repellent coating
Recommended final pressure drop	800 Pa
Thermal stability	80 °C
Moisture resistance	100% rel. hum.
Material for cover, base and support cages	Steel, galvanized
Seal	GTS: polyurethane, GTB: neoprene

Application

Viledon® pulse-jet filter cartridges are used for intake air filtration at gas turbines and turbocompressors. The GTB series is suitable for dry locations. The GTS/GTS10 series is used at both onshore and offshore installations.

With their optimum cleaning characteristics, pulse-jet filter cartridges maximize the lifetime of intake air systems for turbomachinery and reduce the operating costs significantly.

Features and benefits of the GTS filter cartridges

- Innovative high-performance nonwovens with a water-repellent finish and made of synthetic microfibers enable GTS filter cartridges to retain their excellent performance features under all climatic duty conditions.
- The filter medium achieves high arrestance performance, large dust holding capacity, a low average pressure drop and high cost-efficiency.
 The GTS series is particularly well suited for locations with high dust concentrations in the outside air.
- The GTS cartridges in double-cylindrical design are stacked inside each other for transport so that the required space and storage volume is halved. This makes an important contribution to sustainable environmental protection.

- In order to avoid corrosion, the inner and outer support cages, plus the
 cover and base, are made from galvanized steel or stainless steel. These
 components are cast in a leakproof configuration, so as to ensure
 maximized security against dust breakthrough during pulse-jet
 cleaning.
- Optimized sealing against the mounting plate using a foamed-on polyurethane gasket.

Features and benefits of the GTB filter cartridges

- High-strength blended synthetic micro-fiber nonwoven with water repellent coating that allows the cartridge to maintain excellent operational characteristics in most climatic conditions.
- The filter media ensure high arrestance, high dust holding capacity (prior to self cleaning), low average pressure drop and high cost efficiency. This makes the GTB particularly suitable for predominantly dry locations with high dust concentrations in the ambient air.
- To minimize corrosion and handling damage, the inner and outer support cages and end caps are made of galvanized steel or stainless steel. All components are cast together to ensure leakproof operation as well as high security against dust penetration during pulse operation.
- The foamed-on neoprene gasket ensures optimum sealing against the mounting plate.

Delivery note

Customized variants of GTS cartridges and adapters (bayonet, etc.) plus cover, base and support cage in stainless steel version are available on request.

GTB cartridges can be obtained in a variety of other dimensions, stainless steel end caps and support cages and can be supplied with installation accessories (washers and nuts).

EN 770.20	12	ISO	16900

							LIVII J.LOIL	150 10050				
			CTION		FLOW	DROP	ASS 012			PARTICULATI TTER EFFICIE [%]		SIZE
ARTICLE	ARTICLE NUMBER	OUTER DIAMETER [mm]	CONSTRU HEIGHT [mm]	FILTER AREA [m²]	NOMINAL VOLUME F [m³/h]	INITIAL PRESSURE [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE! [μm]
GTS 324 W66S0	53526096	324	660	18.1	1,100	115	F9	ISO ePM1 80%	80	85	95	3
GTS 445 K66S0	53526099	445/324	660	22.0	1,400		F9	ISO ePM1 80%	80	85	95	3
GTS 324-445 W66S0 Set		445/324	1,330	40.1	2,500	130	F9	ISO ePM1 80%	80	85	95	3
GTS 324 Y66 S0	53573362	324	660	15.0	1,100	130	F9	ISO ePM1 75%	78	83	94	3
GTS 445 E66 S0	53573363	445	660	23.0	1,400		F9	ISO ePM1 75%	78	83	94	3
GTS 324-445 Y66S0 Set (CYL-CYL)		445/324	1,320	38.0	2,500	120	F9	ISO ePM1 75%	78	83	94	3
GTB 324 W66S0	53458773	324	660	21.0	1,100	160	M6	ISO ePM10 70%	28	39	74	7
GTB 445 K66S0	53408767	445/324	660	25.0	1,400			ISO ePM10 70%	28	39	74	7
GTB 324-445 W66S0 Set		445/324	1,330	46.0	2,500	165		ISO ePM10 70%	28	39	74	7

Subject to technical changes.

PULSE-JET | EPA

SPECIFICATIONS	
Filter medium	GTS: high-performance nonwoven with water-repellent coating made of synthetic microfibers
Recommended final pressure drop	800 Pa
Thermal stability	80 °C
Moisture resistance	100 % rel. hum.
Material for cover, base and support cages	Steel, galvanized
Seal	GTS: polyurethane



Application

Viledon® pulse-jet filter cartridges are used for intake air filtration at gas turbines and turbocompressors. The GTS 10 series is used at both onshore and offshore installations.

With their optimized self-cleaning characteristics, pulse-jet filter cartridges maximize the lifetimes of intake air systems for turbomachinery and reduce the operating costs significantly.

Features and benefits

- Innovative high-performance nonwovens with a water-repellent finish and made of synthetic micro-fibers enable GTS filter cartridges to retain their excellent performance features under all climatic duty conditions.
- The filter medium achieves high arrestance performance, large dust holding capacity, a low average pressure drop and high cost-efficiency.
 The GTS series is particularly well suited for locations with high dust concentrations in the outside air.
- GTS filter cartridges have been optimized in terms of filtering area and pleat geometry. The active filtering area remains effective over the entire operational lifetime.
- In order to avoid corrosion, the inner and outer support cages, plus the
 cover and base, are made from galvanized steel or stainless steel. These
 components are cast in a leakproof configuration, to ensure maximized
 security against dust breakthrough during pulse-jet cleaning.
- Optimized sealing against the mounting plate using a foamed-on polyurethane gasket.

Delivery notes

Subject to technical changes

Customized variants of GTS cartridges and adapters (bayonet, etc.) plus cover, base and support cage in stainless steel version are available on request.

EN 1822:2009 ISO 16890

	CTION		NO.	DROP	LASS :2009	CE Y MPPS			PARTICULATI ITER EFFICIE [%]		SIZE
ARTICLE	CONSTRUC HEIGHT [mm]	OUTER DIAMETER [mm]	NOMINAL VOLUME FI [m³/h]	INITIAL PRESSURE [[Pa]	FILTER CLA: ACC. TO EN 1822:20	ARRESTANG EFFICIENCY [%]	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE S [µm]
GTS10 324 W66 S0	660	324	1,100	130	E10	89	ISO ePM1 > 95%	97	98	99	1
GTS10 445 K66 S0	660	445	1,400		E10	89	ISO ePM1 > 95%	97	98	99	1
GTS10 324-445 W66 S0 Set	1,330	445/324	2,500	145	E10	89	ISO ePM1 > 95%	97	98	99	1

DEPTH-LOADING FILTERS | FINE DUST



SPECIFICATIONS	
Filter medium	GTG and GTG EPA: synthetic microglass-fiber nonwoven with water repellent coating
Recommended final pressure drop	800 Pa
Maximum permitted operating pressure	6,000 PaMaterial for cover, base and support cages: galvanized steel
Seal	Foamed-on polyurethane

Application

Viledon® depth-loading filter cartridges are used in intake air filtration for gas turbines and turbocompressors at both onshore and offshore installations.

Characteristics and pluses of the GTG and GTG EPA cartridge series

- Innovative high strength synthetic micro-glass-fiber nonwoven with water repellent coating.
- · Uniform pleat spacing for maximum dust holding capacity.
- The filter medium offers excellent initial efficiency, high dust holding capacity, low pressure drop and high cost efficiency.
- GTG and GTG EPA series of filter classes ISO ePM1 (F9, E10) and E12 are particularly suitable for locations with high fine dust concentrations in the ambient air.
- GTG cartridges have been optimized in terms of filtering area, pleat depth and number of pleats which means the active filtering area remains completely effective over its entire operating lifetime.
- The pleat pack, plus the inner and outer support cages are cast into the steel-galvanized or stainless steel end caps in a leakproof configuration.
- The foamed-on EPDM gasket ensures optimum sealing against the mounting plate.

Delivery notes

GTG filter cartridges can be obtained in a variety of other dimensions, stainless steel end caps and support cages.

EN 779:2012 AND

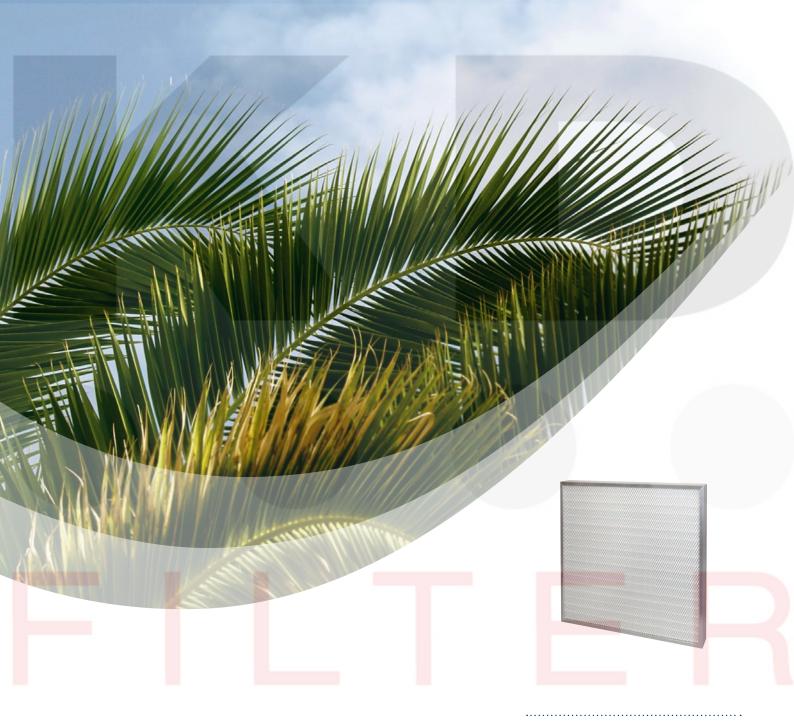
EN 1822:2009	ISO 1	6890
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		CTION			WC	DROP	S : AND			ARTICULAT TER EFFICII [%]		SIZE
ARTICLE	ARTICLE NUMBER	CONSTRUCT HEIGHT [mm]	OUTER DIAMETER [mm]	FILTER AREA [m²]	NOMINAL VOLUME FLOW [m³/h]	INITIAL PRESSURE D [Pa]	FILTER CLASS ACC. TO EN 779:2012 / EN 1822:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SI; [µm]
GTG 324 W66S0	53454436	660	324	18	1,100	120	F9	ISO ePM1 90%	90	93	97	2.5
GTG 445 K66S0	53458789	660	445/324	22	1,400	-	F9	ISO ePM1 90%	90	93	97	2.5
GTG 324-445 W 66S0-Set		1,330	445/324	40	2,500	135	F9	ISO ePM1 90%	90	93	97	2.5
GTG10 324 W66S0	53571128	660	324	20	1,100	130	E10	ISO ePM1 > 95%	99	99	>99	1
GTG10 445 K66S0	53571135	660	445/324	25	1,400	95	E10	ISO ePM1 > 95%	99	99	>99	1
GTG10 324-445 W 66S0-Set		1,330	445/324	45	2,500	175	E10	ISO ePM1 > 95%	99	99	>99	1
GTG12 324 W66S0	53571134	660	324	20	1,100	150	E12					
GTG12 445 K66S0	53571138	660	445/324	25	1,400	120	E12					
GTG12 324-445 W 66S0-Set		1,330	445/324	45	2,500	220	E12					

Subject to technical o

HIGH-TEMPERATURE FILTERS

HT FILTER MATS, HT FILTER PACKS, HITEMP CASSETTE FILTERS, HIPROTEC CASSETTE FILTERS



For air filtration at temperatures above 100 °C up to a maximum of 385 °C, the Viledon® high-temperature filters are the right choice. The silicone-free filter elements meet particularly stringent requirements for air purity, process dependability and cost-efficiency. The pleated filter media are made from special, thermally stable micro-glass-fiber papers.

Simply scan the QR code and find out more about high-temperature filters!



HIGH TEMPERATURE FILTERS

HT FILTER MATS | FINE DUST



SPECIFICATIONS								
Filter medium	LH 243: Filter medium made from ultra-fine, homogeneously spun glass-fibers, clean air sie with special final layer made of glass-fiber nonwoven; LH 244: Filter medium made from ultra-fine homogeneously spun glass-fibers, clean air side with special final layer made or synthetic nonwoven. LH620: Filter medium made from ultra-fine, homogeneously spun glass-fibers. Clean air side with special final layer made of glass-fiber nonwoven.							
Recommended final pressure drop	250 Pa							
Thermal stability LH 244	150 °C; LH 243 und LH 620: 200 °C							
Moisture resistance	100% rel. hum.							
Fire class	F1 acc. to DIN 53438							

Application

- Filtration of recirculating air in drying booths or drying ovens in surface treatment systems.
- Filtration of air and gases at high temperatures.

Delivery notes

LH 243 and LH 244: Rolls are available up to a maximum of 10×1.5 m. LH 620 rolls are available up to a maximum of 2×1.5 m. Customized dimensions are available as roll goods or blanks on request.

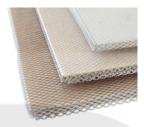
EN	779:2012	ISO :	1689

	s	LOCITY 1]	L JRE DROP	LASS 2012 0		PARTICULATE MATTER EFFICIENCY [%]		SIZE	
ARTICLE	THICKNES APPROX. [mm]	NOMINAL MEDIA VE [m³/h×m²	INITIAL PRESSURE [Pa]	FILTER CLA ACC. TO EN 779:20:	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE S [µm]
LH 243	20	2,200	125	M 5	ISO ePM10 65%	20	31	68	10
LH 244	20	2,200	125	M 5	ISO ePM10 65%	20	31	68	10
LH 620	20	2,200	125	M 5	ISO ePM10 65%	20	31	68	10

HIGH TEMPERATURE FILTERS

HT FILTER PACKS

SPECIFICATIONS	
Filter medium	LH 350 / LH 1000: Glass-fiber nonwoven framed in expanded aluminum metal, type sticker on the clean air side, clean air side with additional glass-fiber nonwoven; LH 1000 OV: Glass-fiber nonwoven framed in expanded aluminum metal, type sticker on the clean air side; LH 370: Progressively structured PES staple-fiber nonwoven with a scrim on the clean air side in expanded aluminum metal
Recommended final pressure drop	250 Pa
Thermal stability	LH 350: 200 °C; LH 1000 und LH 1000 OV: 300 °C; LH 370: 120 °C
Moisture resistance	100 % rel. hum.
Fire class	F1 acc. to DIN 53438



Application

HT filter packs are used for recirculated air filtration in drying booths and drying ovens for surface treatment systems, and for the filtration of air and gases at high temperatures.

Delivery notes

Subject to technical changes.

Standard dimensions: Approx. 480 × 480 × 14 mm. Delivery unit: 30 pcs./carton

ARTICLE	DIMENSIONS (W×L) [mm]	WEIGHT [kg]	NOMINAL VOLUME FLOW [m²/h]	DUST HOLDING CAPACITY (AC FINE/450 PA) [g]	INITIAL PRESSURE DROP [Pa]	AVERAGE ARRESTANCE [%]
LH 350	480×480	0.25	350	40	75	99
LH 370	480×480	0.30	900	75	30	99
LH 1000	480×480	0.30	1,000	75	85	94
LH 1000/OV	480×480	0.30	1,000	100	60	92

HIGH TEMPERATURE FILTERS

HT CASSETTE FILTERS | CONSTRUCTION DEPTH 292 MM | FINE DUST





SPECIFICATIONS	
Recommended final pressure drop	300 Pa
Thermal stability	at least 260 °C
Frame	25 mm header frame (type H) or box shape (type B)
Frame material	Steel sheeting, galvanized Aluminum extruded section
Seal	Textile glass round-cord seal
Fire class	F1 acc. to DIN 53438

Application

The principal application category for the Viledon® HiTemp high-temperature cassette filters HT10 and HT2.5 with an construction depth of 292 mm is air filtration in recirculating air equipment of paint drying processes in the automotive industry. The filters meet particularly stringent requirements for air purity, process dependability and cost-efficiency.

Besides the applications in surface treatment technology, the filters also meet the toughest of quality stipulations for general drying technology.

Features and benefits

 The Viledon® HiTemp high-temperature cassette filters HT 10 and HT 2.5 excel in terms of a particularly high dust holding capacity and very good mechanical strength, even when subjected to inhomogeneous air flows.

 Thanks to low filter resistances, very long operational lifetimes can be achieved, coupled with exceptionally cost-efficient operating characteristics.

Special variants

- For unfavorable flow conditions in the system, the filters can be supplied in a stronger version (designation: reinf).
- For temperatures up to 385 °C, the filters are also available with a frame made of aluminum (designation: -H at the end).
- For systems with only a confined space at their disposal, the filter elements are also available in an construction depth of 150 mm.

Delivery notes

Customized dimensions, different frame materials, higher thermal stability or a specially reinforced version available on request.

EN 779:2012 ISO 16890

		6	Z C		οw	DROP				RTICULATER EFFICI		e.	
ARTICLE	ARTICLE NUMBER	DIMENSIONS (L×W×D) [mm]	SEAL POSITION	FILTER AREA [m²]	NOMINAL VOLUME FLC [m³/h]	INITIAL PRESSURE DI [Pa]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE SIZE [µm]	
HT10-BG-0610x0610x292-U L	53555500	610×610×292	Two-way flow possible	15.0	3,400	100	M 6	ISO ePM10 75%	30	42	75	8	
HT10-BG-0610x0610x292-U L reinf	53563097	610×610×292	Two-way flow possible	19.0	3,400	100	M 6	ISO ePM10 75%	30	42	75	8	
HT10-BG-0305x0610x292-U L	53563089	305×610×292	Two-way flow possible	7.5	1,600	110	M 6	ISO ePM10 75%	30	42	75	8	
HT10-BG-0305x0610x292-U L reinf	53563430	305×610×292	Two-way flow possible	9.5	1,600	110	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0592x0592x292-2 L	53554668	592×592×292	Clean air side	12.0	3,400	140	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0592x0592x292-1 L	53563111	592×592×292	Raw air side	12.0	3,400	140	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0592x0592x292-2 L rinf	53414564	592×592×292	Clean air side	15.0	3,400	140	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0287x0592x292-2 L	53555504	287×592×292	Clean air side	6.0	1,600	150	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0287x0592x292-1 L	53563073	287×592×292	Raw air side	6.0	1,600	150	M 6	ISO ePM10 75%	30	42	75	8	
HT10-HG-0287x0592x292-2 L reinf	53563096	287×592×292	Clean air side	7.5	1,600	150	M 6	ISO ePM10 75%	30	42	75	8	
HT2.5-BG-0610x0610x292-U L	53560536	610×610×292	Two-way flow possible	15.0	3,400	110	F8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-BG-0305x0610x292-U L	53563083	305×610×292	Two-way flow possible	7.5	1,600	120	F8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-BG-0610x0610x292-U L reinf	53560538	610×610×292	Two-way flow possible	19.0	3,400	110	F8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-HG-0592x0592x292-2 L	53563079	592×592×292	Clean air side	12.0	3,400	150	F8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-HG-0592x0592x292-1 L	53563080	592×592×292	Raw air side	12.0	3,400	150	F8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-HG-0287x0592x292-2 L	53563081	287×592×292	Clean air side	6.0	1,600	160	F 8	ISO ePM2,5 75%	79	84	95	4	
HT2.5-HG-0287x0592x292-1 L	53563082	287×592×292	Raw air side	6.0	1,600	160	F8	ISO ePM2,5 75%	79	84	95	4	

-

HIGH TEMPERATURE FILTERS

HT CASSETTE FILTERS | CONSTRUCTION DEPTH UP TO 78 MM | FINE DUST

SPECIFICATIONS	
Recommended final pressure drop	300 Pa
Thermal stability	260 °C 385 °C upon request (aluminum frame)
Frame	S: Extruded aluminum profile A: Steel sheeting, galvanized
Seal	Textile glass round-cord seal
Mounting	Installation on both raw and clean gas side possible
Fire class	F1 acc. to DIN 53438



Application

The principal application category for Viledon® HiProtec cassette filters HT10, HT2.5 and HT1 with construction depths of up to 78 mm is air filtration in paint driers for the automotive industry. The filters are mounted in the booth ceilings or the side channels of the dryer pipes, and meet particularly stringent requirements for air purity, process dependability and cost-efficiency.

Besides the applications in surface treatment technology, the filters also meet the toughest of quality stipulations for general drying technology. Type HT 10 A 480 \times 480 mm (class M6) frequently serves as an upgrade for expanded-metal filter packs and cells.

Features and benefits

- The Viledon® HiProtec cassette filters HT10, HT2.5 and HT1 excel in terms of a high dust holding capacity and very good mechanical sturdiness even when subjected to inhomogeneous air flows.
- Thanks to low filter resistances, very long operational lifetimes can be achieved, coupled with exceptionally cost-efficient operating characteristics.

Delivery notes

Available in all dimensions commonly encountered on the market. Customized dimensions, filtering areas, frame materials or termal stability up to 385 $^{\circ}$ C available on request.

EN 779:2012 ISO 16890

		S	EA.	L FLOW	DROP	LDING / /300 PA)	.SS 12			ARTICULAT TER EFFICII [%]		SIZE
ARTICLE	ARTICLE NUMBER	DIMENSIONS (H×W×D) [mm]	FILTER AREA [m²]	NOMINAL VOLUME F [m³/h]	INITIAL PRESSURE [Pa]	DUST HOL CAPACITY (AC FINE / [g]	FILTER CLASS ACC. TO EN 779:2012	CLASS TO ISO 16890	ISO ePM1	ISO ePM2,5	ISO ePM10	CUT OFF PARTICLE ! [μm]
HT10-EG-0480x0480x022-U-L	53527861	480×480×22	1.5	1,000	50	120	M 6	ISO ePM10 65%	26	36	68	10
HT10-SA-0490x0490x040-U-L	53563090	490× <mark>490</mark> ×40	2.1	860	35	95	M6	ISO ePM10 65%	26	35	68	8
HT10-SA-0610x0610x055-U-L	53563109	610×610×55	5.9	1,600	30	300	M 6	ISO ePM10 70%	22	33	70	8
HT10-SA-0610x0610x078-U-L	53563103	610× <mark>610</mark> ×78	6.6	1,700	35	335	M6	ISO ePM10 70%	27	36	70	8
HT10-SA-0915x0457x055-U-L	53563110	915×457×55	6.2	1,800	30	335	M 6	ISO ePM10 70%	22	33	70	8
HT10-SA-0457x0915x055-U-L	53563426	457×915×55	6.2	1,800	30	335	M6	ISO ePM10 70%	22	33	70	8
HT2.5-SA-0305x0610x055-U-L	53563099	305×610×55	3.0	850	80	135	F8	ISO ePM2,5 75%	70	78	93	4
HT2.5-SA-0305x0610x078-U-L	53563098	305×610×78	2.7	850	85	150	F8	ISO ePM2,5 75%	72	79	93	4
HT2.5-SA-0490x0490x040-U-L	53562208	490×490×40	2.1	860	95	100	F8	ISO ePM2,5 65%	59	66	85	4
HT2.5-SA-0610x0610x055-U-L	53562204	610×610×55	5.9	1,600	80	270	F8	ISO ePM2,5 75%	70	78	93	4
HT2.5-SA-0610x0610x078-U-L	53562193	610×610×78	6.6	1,700	85	300	F8	ISO ePM2,5 75%	72	79	93	4
HT2.5-SA-0915x0457x055-U-L	53562206	915×457×55	6.2	1,800	80	305	F8	ISO ePM2,5 75%	70	78	93	4
HT2.5-SA-0457x0915x055-U-L	53563427	457×915×55	6.2	1,800	80	305	F8	ISO ePM2,5 75%	70	78	93	4
HT1-SA-0915x0610x078-U-L	53563091	915×610×78	10	2,000	75	340	F9	ISO ePM1 75%	72	79	93	3

FILTERS FOR DUST REMOVAL

FILTER CARTRIDGES AND ACCESSOIRES, FILTER BAGS, FILTER PLATES



We develop customized dust removal concepts for enhancing occupational safety and protecting both the environment and technical systems, as well as for product recovery. Based on a careful analysis, we individually select the appropriate filter medium for the respective dust requirement as well as the appropriate dust removal element, which is variable in terms of shape, overall height, nominal diameter and pleat geometry.

Simply scan the QR code and find out more about filters for dust removal!



FILTER CARTRIDGES | DIN



SPECIFICATIONS	
lter medium	Polyester Sinus, polyolefin
rmal stability	up to 80 °C
isture resistance	up to 100% rel. hum., washable
pport cage	Integrated support cage made of galvanized steel
inge	Galvanized steel, stainless steel version on request

Application

Viledon® DIN Standard filter cartridges are ideally suited for simple retrofitting to most dust removal units in common use and remove problematic dusts in numerous applications. The fields of application are:

- Environmental protection
- Workplace safety
- System protection
- Product recovery

Delivery notes

Available in nominal diameters of 200, 327 mm and 351 mm, and in the standard lengths of 300, 400, 600, 1,000 and 1,200 mm. Special lengths up to 1,500 mm and different filter areas are available on request.

Features and benefits

- Cylindrical filter cartridges for horizontal and vertical installation with integrated interior support cage in various heights.
- · Simple installation using a tie-rod or a closure cover.
- All cartridges are fitted with surface media, and can be cleaned using a pulse-jet procedure or rotary nozzles.
- Nonwovens produced in-house with full-area thermal bonding, IFA tested and optimized for handling the particular dusts involved.
- Filter area and pleat spacing optimally matched to the application concerned.
- Low pressure drop values resulting in high energy efficiency and high suction capacity.
- Minimized compressed-air-consumption for the cleaning routine.
- · Long operational lifetimes.
- Low replacement costs.
- · Low disposal outlay thanks to long operational lifetimes.
- · Antistatic variants have DEKRA certification.

ARTICLE	ARTICLE NUMBER	VERSION	FILTER MEDIUM	NOMINAL DIAMETER / NOMINAL LENGTHS [mm]	NOMINAL FILTER AREA [m²]	DUST CLASS	IFA CERTIFICATION	CORRUGATION	CONDUCTIVE PRINTING	CHEMICAL RESSISTANCE	AIR PERMEABILITY	STRENGTH	CLEANING ABILITY	FINE DUST QUALIFICATION	FIBROUS DUST COMPATIBILITY
LP 200 S-40-A 20-07	73076409	Standard	PES Sinus	200/405	2.0	M	х	x		0	+0	+0	+0	+0	+
LP 327 B-60-A 12-07	7 <mark>3076</mark> 599	Bajonett	PES Sinus	327/605(+50)	12.0	M	х	x		0	+0	+0	+0	+0	0
LP 327 B-60-A 12-06	73076546	Bajonett	PES Sinus AS	327/605(+50)	12.0	M	х	×	x	0	+0	+0	+0	+0	О
LP 327 D-60-A 10-07	73076449	open	PES Sinus	327/605	10.0	М	x	Х		О	+0	+0	+0	+0	0
LP 327 D-60-A 10-06	73076808	open	PES Sinus AS	327/605	10.0	М	x	Х	×	0	+0	+0	+0	+0	0
LP 327 S-60-A 10-07	73076459	Standard	PES Sinus	327/605	10.0	M	x	x		О	+0	+0	+0	+0	О
LP 327 S-60-A 10-06	73076470	Standard	PES Sinus AS	327/605	10.0	M	x	×	x	О	+0	+0	+0	+0	0
LP 327 S-60-A 10-09	73077136	Standard	PO	327/605	10.0	M	x			+	+0	+0	+0	+0	+0
LP 327 S-60-A 10-08	73077222	Standard	PO AS	327/605	10.0	М	x		×	+	+0	+0	+0	+0	+0
LP 327 S-66-A 14-07	73076890	Standard	PES Sinus	327/605	14.0	M	x	x		О	+0	+0	+0	+0	0
LP 327 S-66-A 14-06	73076935	Standard	PES Sinus AS	327/605	14.0	М	x	Х	x	0	+0	+0	+0	+0	0
LP 327 S-12-A 20-07	73076408	Standard	PES Sinus	327/1,205	20.0	M	x	x		0	+0	+0	+0	+0	0
LP 327 S-12-A 20-06	73076445	Standard	PES Sinus AS	327/1,205	20.0	M	х	×	x	0	+0	+0	+0	+0	0
LP 327 S-12-A 20-09	73077211	Standard	PO	327/1,205	20.0	M	x			+	+0	+0	+0	+0	+0
LP 327 S-12-A 20-08	73077117	Standard	PO AS	327/1,205	20.0	M	x		x	+	+0	+0	+0	+0	+0
LP 351 D-66-A 12-07	73077047	Standard	PES Sinus	351/660	12.0	М	x	Х		О	+0	+0	+0	+0	0
LP 351 D-71-A 12-07	73076923	Standard	PES Sinus AS	351/710	12.0	M	х	х		0	+0	+0	+0	+0	0

FILTER CARTRIDGES | SNAP&FIX

Filter medium Polyester sinus, polyester nano, polyolefin Thermal stability up to 50 °C Moisture resistance up to 100% rel. hum., washable	
Moisture resistance up to 100 % rel. hum., washable	
Support cage integrated support cage	
Flange PA snap-on hook	



Application

Viledon® Snap&Fix filter cartridges have proven themselves in numerous dust removal systems and they are perfectly suitable for the replacement of snap-ring filter bags with mounting plate hole diameters of 152 or 155 mm. They are ideally suited for use in suction excavators and cleaning vehicles.

Features and benefits

- The cartridge series snaps into place "properly", for a perfect axial seal achieved without any further aids like metal sleeves or spring washers.
- Suitable for upgrading old bag filter systems or for new installations.
- Installation: on the clean-gas side without any elaborate screwing work. Simply press into place and the patented snap-on hooks will engage.
- · Disassembling: in seconds using a snap-ring lifter.
- Filter area and pleat spacing optimally matched to the application concerned.
- · Low pressure drop values.
- · Minimized compressed-air-consumption for the cleaning routine.
- All cartridges are fitted with surface media, and can be cleaned using a pulse-jet procedure or rotary nozzles.
- Long operational lifetimes.
- · Low replacement costs.
- · Low disposal outlay thanks to long operational lifetimes.
- Antistatic variants have DEKRA certification.

Delivery notes

Available in different standard lengths of 300 to 1,500 mm.

ARTICLE	ARTICLE NUMBER	VERSION	HLTER MEDIUM	NOMINAL DIAMETER / NOMINAL LENGTHS [mm]	NOMINAL FILTER AREA [m²]	DUST CLASS	IFA CERTIFICATION	CORRUGATION	CONDUCTIVE PRINTING	CHEMICAL RESSISTANCE	AIR PERMEABILITY	STRENGTH	CLEANING ABILITY	FINE DUST QUALIFICATION	FIBROUS DUST COMPATIBILITY
LP 152 B-60-A 21-08	73076954	152 mm	PO, AS	145/612	2.1	M	X		х	+	+0	+0	+0	+0	+0
LP 152 B-10-A 27-07	73076962	152 mm	PES Sinus	145/1,012	2.7	M	×	x		0	+0	+0	+0	+0	+
LP 152 B-10-A 36-09	73076720	152 mm	PO	145/1,012	3.6	M	×			+	+0	+0	+0	+0	+0
LP 152 B-12-A 32-19	73076979	152 mm	PES	145/1,212	3.2	L	×			О	++	++	+0	0	+0
LP 152 B-12-A 43-07	73076405	152 mm	PES Sinus	145/1,212	4.3	M	x	×		0	+0	+0	+0	+0	+0
LP 152 B-12-A 43-09	73076572	152 mm	РО	145/1,212	4.3	M	x			+	+0	+0	+0	+0	+0
LP 152 B-12-A 43-08	73076865	152 mm	PO, AS	145/1,212	4.3	M	×		х	+	+0	+0	+0	+0	+0
LP 152 B-12-A 54-07	73076405	152 mm	PES Sinus	145/1,212	5.4	M	х	х		0	+0	+0	+0	+0	0
LP 152 B-15-A 54-07	73077114	152 mm	PES Sinus	145/1,512	4.3	M	х	x		0	+0	+0	+0	+0	+0
LP 155 B-60-A 16-07	73076817	155 mm	PES Sinus	145/612	1.6	M	x	x		0	+0	+0	+0	+0	+
LP 155 B-60-A 16-06	73076937	155 mm	PES Sinus, AS	145/612	1.6	M	х	х	х	0	+0	+0	+0	+0	+
LP 155 B-60-A 21-06	73076636	155 mm	PES Sinus, AS	145/612	2.1	M	х	x	x	0	+0	+0	+0	+0	+0
LP 155 B-10-A 27-07	73076701	155 mm	PES Sinus	145/1,012	2.7	M	х	×		О	+0	+0	+0	+0	+
LP 155 B-10-A 27-06	73076746	155 mm	PES Sinus, AS	145/1,012	2.7	M	х	x	x	О	+0	+0	+0	+0	+
LP 155 B-15-A 54-07	73076602	155 mm	PES Sinus	145/1,512	5.4	M	x	х		0	+0	+0	+0	+0	+0

FILTER CARTRIDGES | TWIST&FIX



SPECIFICATIONS	
Filter medium	Polyester Sinus, polyolefin
Thermal stability	up to 60°C
Moisture resistance	up to 100% rel. hum., washable
Flange	3-hooks, PA injection molding
Support cage	integrated support cage

Application

Viledon® Twist & Fix filter cartridges are used for any kind of difficult dust removal job and remove problematic dusts in numerous applications. The fields of application are:

- · Environmental protection
- Workplace safety
- System protection
- Product recovery

Delivery notes

Available in nominal diameters of 145, 156, 218 and 324 mm, with standard lengths of 300, 600, 1,000, 1,200 and 1,500 mm. Special lengths up to 1,500 mm and different filter areas as well as with aluminum flange or without hooks (downholder required) are available on request.

Features and benefits

- · Cylindrical filter cartridges with PA flanges.
- Perfect fit of the filter cartridge and protection of the filter medium thanks to centering collar.
- Spacer ribs (patented) on both sides at the flange ensure correct installation and an optimum seal to the system's raw-gas compartment.
- A foamed-on seal on both sides for installation on the raw or clean-gas side as desired.
- Filter area and pleat spacing matched to the application concerned.
- · Low pressure drop values.
- Minimized compressed-air-consumption for the cleaning routine.
- All cartridges are fitted with surface media, and can be cleaned using a pulse-jet procedure or rotary nozzles.
- · Long operational lifetimes.
- · Low replacement costs.
- · Low disposal outlay thanks to long operational lifetimes.
- · Antistatic variants have DEKRA certification.

ARTICLE	ARTICLE NUMBER	VERSION	FILTER MEDIUM	NOMINAL DIAMETER / NOMINAL LENGTHS [mm]	NOMINAL FILTER AREA [m²]	DUST CLASS	IFA CERTIFICATION	CORRUGATION	CONDUCTIVE	CHEMICAL RESSISTANCE	AIR PERMEABILITY	STRENGTH	CLEANING ABILITY	FINE DUST QUALIFICATION	FIBROUS DUST COMPATIBILITY
LP 145 G-30-A 10-07	73076421	3-hooks, PA	PES Sinus	145/312	1	M	x	Х		О	+0	+0	+0	+0	+0
LP 145 G-30-A 10-06	73076448	3-hooks, PA	PES Sinus, AS	145/312	1	M	x	Х	x	О	+0	+0	+0	+0	+0
LP 145 G-30-A 10-20	73076400	3-hooks, PA	PES	145/312	1	L	х		х	0	++	++	+0	0	0
LP 145 G-60-A 16-07	73076544	3-hooks, PA	PES Sinus	145/612	1.6	M	х	Х		О	+0	+0	+0	+0	+
LP 145 G-60-A 21-07	73076413	3-hooks, PA	PES Sinus	145/612	2.1	M	х	Х		0	+0	+0	+0	+0	+0
LP 145 G-60-A 21-09	73077320	3-hooks, PA	PO	145/612	2.1	M	х			+	+0	+0	+0	+0	+0
LP 145 G-60-A 21-20	73076389	3-hooks, PA	PES	145/612	2.1	M	х		х	0	++	++	+0	0	0
LP 145 G-60-A 27-07	7307 <mark>6610</mark>	3-hooks, PA	PES Sinus	145/612	2.7	M	х	Х		О	+0	+0	+0	+0	О
LP 145 G-12-A 43-07	53564497	3-hooks, PA	PES Sinus	145/1,212	4.3	M	Х	Х		О	+0	+0	+0	+0	+0
LP 145 G-12-A 43-19	7307 <mark>6587</mark>	3-hooks, PA	PES	145/1,212	4.3	L	x			О	++	++	+0	0	О
LP 145 G-12-A 43-20	73076576	3-hooks, PA	PES	145/1,212	4.3	L	х		x	0	++	++	+0	О	0
LP 156 G-12-A 43-07	7307 <mark>6702</mark>	3-hooks, PA	PES Sinus	156/1,212	4.3	M	x	Х		О	+0	+0	+0	+0	+0
LP 218 G-10-A 50-07	73076432	3-hooks, PA	PES Sinus	218/1,012	5.0	M	Х	Х		О	+0	+0	+0	+0	+
LP 218 G-10-A 50-06	73076467	3-hooks, PA	PES Sinus, AS	218/1,012	5.0	M	х	Х	х	0	+0	+0	+0	+0	+
LP 218 G-10-A 50-09	73076369	3-hooks, PA	PES	218/1,012	5.0	M	х			+	+0	+0	+0	+0	+
LP 218 G-10-A 50-08	73076369	3-hooks, PA	PES, AS	218/1,012	5.0	M	x		x	+	+0	+0	+0	+0	+
LP 324 F-60-A 12-07	73076724	no hooks, PA	PES Sinus	324/612	12.0	M	х	Х		О	+0	+0	+0	+0	О
LP 324 F-12-A 20-07	73076626	no hooks, PA	PES Sinus	324/1,212	20.0	M	х	х		О	+0	+0	+0	+0	О
LP 324 G-60-A 10-07	73076427	3-hooks, PA	PES Sinus	324/612	10.0	M	х	х		0	+0	+0	+0	+0	0
LP 324 G-10-A 13-07	73076399	3-hooks, PA	PES Sinus	324/1,012	13.0	M	х	х		О	+0	+0	+0	+0	+0
LP 324 G-12-A 15-07	73076414	3-hooks, PA	PES Sinus	324/1,212	15.0	M	х	х		О	+0	+0	+0	+0	+0
LP 324 G-15-A 19-07	73076417	3-hooks, PA	PES Sinus	324/1,512	19.0	М	х	х		О	+0	+0	+0	+0	+0
LP 324 G-15-A 31-07	73076619	3-hooks, PA	PES Sinus	324/1,512	31.0	M	Х	х		0	+0	+0	+0	+0	0

Subject to technical changes

FILTER CARTRIDGES | SINTEXX PLUS

SPECIFICATIONS						
Filter medium	sinTexx Plus					
Thermal stability	up to 50 °C (Snap&Fix), up to 60 °C (Twist&Fix), up to 80 °C (DIN)					
Moisture resistance	up to 100% rel. F., washable					
Support cage	integrated support cage					
Flange	Tie-rod (DIN), 3-hooks PA injection molding (Twist&Fix), snap-on hook (Snap&Fix)					



Application

sinTexx Plus filter cartridges have been developed specifically for the extraction of difficult-to-handle dust and fine smoke, produced during treatment of metallic and non-metallic materials in welding, cutting, polishing and coating processes.

Features and benefits

- sinTexx Plus is a corrugated polyester medium with a nanofiber lining.
- Improved collection efficiency for fine dust and smoke.
- Reliable compliance with threshold limit values for the workplace.
- Highly efficient thanks to lower flow resistance.
- Reduced consumption levels for power and compressed-air and extended useful lifetime of the filter elements concerned.
- Dispensation of the initial precoating of cartridges otherwise customary. This implies easier handling, less maintenance and the costs can be reduced.

	АКТСЦЕ	ARTICLE NUMBER	Version	FILTER MEDIUM	NOMINAL DIAMETER/ NOMINAL LENGTHS [mm]	NOMINAL FILTER AREA [m²]	DUST CLASS	IFA CERTIFICATION	CORRUGATION	CONDUCTIVE PRINTING	NANO-LAYER	CHEMICAL RESSISTANCE	AIR PERMEABILITY	STRENGTH	CLEANING ABILITY	FINE DUST QUALIFICATION	HBROUS DUST COMPATIBILITY
	LP 155 B-15-A 54-77	73076328	Snap&Fix, 155 mm	sinTexx Plus	145/1,512	5.4	M	Х	Х		х	0	+	+	++	++	+0
	LP 155 B-15-A 54-76	73076 <mark>361</mark>	Snap&Fix, 155 mm	sinTexx Plus AS	145/1,512	5.4	M	х	х	х	х	0	+	+	++	++	+0
	LP 156 G-12-A 43-77	73077160	Twist&Fix, 3-hooks, PA	sinTexx Plus	145/1,212	4.3	M	Х	х		х	0	+	+	++	++	+0
	LP 218 G-10-A 50-77	53496861	Twist&Fix, 3-hooks, PA	sinTexx Plus	218/1,012	5.0	M	х	х		х	0	+	+	++	++	+
	LP 218 G-10-A 50-76	73077039	Twist&Fix, 3-hooks, PA	sinTexx Plus AS	218/1,012	5.0	M	х	х	х	х	0	+	+	++	++	+
,	LP 324 G-15-A 19-76	73077234	Twist&Fix, 3-hooks, PA	sinTexx Plus AS	324/1,512	19.0	Μ	х	х	х	х	0	+	+	++	++	+0
	LP 324 G-15-A 25-76	73077049	Twist&Fix, 3-hooks, PA	sinTexx Plus AS	324/1,512	25.0	M	Х	х	х	х	0	+	+	++	++	0
	LP 327 S-60-A 10-77	73076345	DIN Standard	sinTexx Plus	327/605	10.0	M	х	х		х	0	+	+	++	++	О
	LP 327 S-60-A 10-76	73077136	DIN Standard	sinTexx Plus AS	327/605	10.0	M	Х	х	х	х	0	+	+	++	++	0
	LP 327 S-12-A 20-77	73077246	DIN Standard	sinTexx Plus	327/1,205	20.0	Μ	х	х		х	0	+	+	++	++	О
	LP 327 S-12-A 20-76	73077142	DIN Standard	sinTexx Plus AS	327/1,205	20.0	Μ	х	х	х	х	0	+	+	++	++	0

ACCESSORIES FOR FILTER CARTRIDGES | PULSE-JET REFLECTORS



Application

PJR pulse-jet reflectors are available as an accessory and are the perfect match for filter cartridges. They improve air pressure behavior during the filtration operation by optimizing the intake of secondary air. When using Viledon® filter cartridges and other commercially available filter cartridges with nominal diameters of 145, 155, 218, 324 and 327 mm, these pulse-jet reflectors can be easily at-tached with snap hook technology.

Features and benefits

- Unique solution with new snap hook technology. PJR snaps onto the cartridge flange.
- PJR327 now available for DIN cartridges.
- Easy installation simply insert them into the cartridge Click & Fix.
- Can be ordered as an optional accessory.
- Simple retrofitting for Viledon® filter cartridges as well as many other commercially available cartridge models.

Delivery notes

Customized dimensions are available on request.

ARTICLE	ARTICLE NUMBER	CONSTRUCTION HEIGHT [mm]
PJR 145-152-155	53535691	80
PJR 218	53535692	80
PJR 324-327	53535693	80

ACCESSORIES FOR FILTER CARTRIDGES | CARTRIDGE PROTECTION SLEEVE



The CPSs are made from a fully synthetic PES filter medium, that excels particularly in terms of very high air-permeability measuring approx. 3880 l/m²-s and a mean pore size of approx. 50 μ m. Fine particles can penetrate the filter medium, while coarse ones are arrested.

Use

For protecting a filter cartridge against irreversible dust deposits of coarse particles or fibrous dusts in the pleat package.

Application category

Arresting fibrous dusts, for example.

Assembly

The CPSs are secured in accordance with the illustration above with a cable tie underneath the flange of the filter cartridge, and cut off approx. 5-10 cm above the base of the filter cartridge.

Delivery notes

Cartridge protection sleeves are individually matched to each filter system, and have to be inquired separately in each particular case.

Cartridge protection sleeves are available for the following cartridge diameters: 145 mm, 218 mm and 327 mm.

ARTICLE	ARTICLE NUMBER	OP TIMIZED FOR
CPS 145	53372745	LP 145/LP 152/LP 155
CPS 218	53373836	LP 218
CPS 324/327	53373838	LP 324/LP 327

ACCESSORIES FOR FILTER CARTRIDGES | FILTERING AID FHM 1500



Application

In what application categories does precoating with FHM 1500 offer advantages?

- Plasma/flame and laser-cutting of metals.
- · Welding.
- Cleanable "police filter" stages.
- Sticky dusts.
- · Coating processes like spray-galvanizing, spray-aluminizing.
- Applications with low raw-gas concentrations.

What is precoating?

Precoating involves adding a suitable filter aid to the actual process dust.

When is precoating used?

Why is precoating used?

- To improve cleaning properties
- For lower stable differential pressures

First precoating process with FHM 1500

- Dosage: approx. 10 g/ m^2 , once on new filter cartridge
- Precoating duration and process: apply FHM 1500, then compact with process dust at a differential pressure from 2,000 to 2,500 Pa for at least 15 minutes. The cleaning process has to be turned off until maximum differential pressure has been reached.

Important: Precoating and compression without cleaning. In accordance with the relevant DIN safety data sheet, wearing a respirator mask of protection level FFP1 is recommended when handling the FHM 1500.

ARTICLE	ARTICLE NUMBER	WEIGHT [kg]
Filter aid 1500	53474679	0.1
Filter aid 1500	53474681	0.5
Filter aid 1500	53301586	1

ACCESSORIES FOR FILTER CARTRIDGES | ROTARY NOZZLE SYSTEMS

SPECIFICATIONS	
Suitable filter cartridges	ϕ = 327 mm, H = 602 mm und 1,202 mm, particularly with small pleat spacings



Application

The ROG 600 F-PL and ROG 1200 F-PL rotary nozzle systems ensure effective cleaning of filter cartridges with \emptyset = 327 mm, H = 602 mm und 1,202 mm, particularly with small pleat spacings.

Features and benefits

- · Lasting operational dependability.
- The nozzle vane is mounted on life-time-lubricated ball-bearings encapsulated on both sides.
- Air distributor pipes and lower supporting rib plus stop plate made from high-quality, glass-fiber-reinforced plastic.
- High accuracy fit of all joints to assure optimum concentricity.
- Quasi-offline cleaning featuring clean-gas-side stop plate operated by compressed air.
- Additional devices for securing the cartridge not required.

ARTICLE	ARTICLE NUMBER	OPERATING PRESSURE [bar]	SOLENOID VALVE + AIR FEEDING LINE [.,]	PULSE TIME [5]	AIR-CONSUMPTION PER PULSE [standard liters]
Rotary nozzle 1200/F-PL/P946713	8928695	2.5-3.5	3/4	0.8-1.0	160
Rotary nozzle 600/F-PL/P946712	8925662	3.0-4.0	1	1.0-1.5	250

ACCESSORIES FOR FILTER CARTRIDGES | DISPLACER UNITS



Features and benefits

- Use of the displacer unit leads to a significant increase in cleaning intensity.
- Reduction of compressed air consumption, which significantly reduces operating costs.
- The tank pressure must be restricted to a maximum of 3 bar, or if the maximum tank pressure is retained, the valves must be reduced by one size.

Delivery notes

Available for LP 327 cartridges in 600 mm, 1,000 mm, 1,200 mm and 1,500 mm lengths.

ARTICLE	ARTICLE NUMBER	CONSTRUCTION HEIGHT [mm]
Displacer unit 327/0600	53283768	585
Displacer unit 327/1000	53283767	985
Displacer unit 327/1200	53281463	1,185
Displacer unit 327/1500	53283766	1,485

FILTER BAGS

SPECIFICATIONS	
Filter medium	exclusive NEXX media
Thermal stability	Fiber Bags: 80 °C, NEXX Bags: 120 °C
Moisture resistance	up to 100% rel. humidity, water and oil repellent equipment



Filter bags

Viledon® filter bags are available in almost any configuration as a round tube, rectangular tube, bag and in almost all diameters and lengths. Various top and bottom section variants and reinforcements are available. Precoat application with FHM 1500 is just as possible as a permanent additive addition of lime for sticky or oily dusts.

NEXX Bags

- Viledon® NEXX filter bags are the next generation of surface filters, with outstanding advantages compared to conventional filters featuring needlefelt.
- Whether in the pigment, cement or metal industrie, in fact wherever large quantities of dust are encountered, Viledon® NEXX filter bags are what you need.
- Original Viledon® NEXX: This high-quality patented filter medium possesses unique properties for surface filtration.
- Worry-free cleaning: Dusts can be quickly and easily cleaned off the microfiber layer of the Viledon[®] NEXX filter bags.
- Reduced energy costs: Thanks to optimized filter performance, less compressed air is used during the cleaning process, and the fan's power consumption downsized.

- Low emissions: With Viledon® NEXX, clean-gas values of <1 mg/m² can be lastingly achieved.
- In comparison to needlefelts, Viledon® NEXX requires around 50% less resources to produce. Coupled with the same (or an even higher) filtration performance! This means you're making a proactive contribution to protecting the natural environment and ensuring sustainable resource-economy.
- Application: e.g. fine dusts, pigment, cement and metal industries.

Fiber Bags

- Viledon® Fiber Bags with unique characteristics are particularly suitable for use in the wood and paper industry.
- In particular for extraction of fibrous dust, high arrestance with a low pressure drop can be achieved.
- Significantly longer useful lifetimes than conventional needlefelts.
- · Very high resistance to abrasion.
- Viledon® FE 2919 + FE 2920 are made from recycled polyester. So the plastic can be brought back into industrial circulation and is not dumped on a landfill. This is a proactive contribution towards resource-economy.
- Applications: fibrous dusts, wood and paper industries.

Delivery notes

Assembly in various standards on request. The innovative Viledon® filter media are also available as rolled goods: Antistatic (gray-black raster print) or in the standard version (gray).

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/ m²]	THICKNESS APPROX. [mm]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	DUST CLASS	IFA CERTIFICATION	CONDUCTIVE PRINTING	MICRO FILAMENTS	WATER AND OIL REPELLENCY	AIR PERMEABILITY	CLEANING ABILITY	FINE DUST QUALIFICATION	FIBROUS DUST COMPATIBILITY	THERMAL STABILITY [°C]
NEXX Bags	NEXX (PES + PA)	240	1	700/800	M	х		х		+0	+	+	+0	120
NEXX Bags AS	NEXX AS (PES + PA)	250	1	700/800	M	(x)	x	х		+0	+	+	+0	120
NEXX Bags WR	NEXX WR (PES + PA)	245	1	700/800	M	(x)		х	х	+0	+	+	+0	120
NEXX Bags AS WR	NEXX AS WR (PES + PA)	255	1	700/800	M	(x)	x	x	х	+0	+	+	+0	120
FIBER Bags	PES	250	1.1	750/750	L	х				++	+0	+0	+	80
FIBER Bags AS	PES, AS	260	1.1	750/750	L	(x)	х			++	+0	+0	+	80

FILTER PLATES



SPECIFICATIONS	
Thermal stability	up to 80 °C
Moisture resistance	up to 100% rel. hum., washable
Flange	PU injection molding head
Note	Electrostatically conductive filter plates must be properly earthed

Features and benefits

- High-performance filter plates for every application, to ensure compliance with the statutory residual-dust emission values.
- Long lifetime coupled with low maintenance and operating costs.
- Space-saving thanks to compact construction with pleated, synthetic filter media.
- Can be regenerated using all customary cleaning processes and by washing.

Delivery notes

Customized product variants and dimensions available on request. Please ask our customer service for technical data.

ARTICLE	DIMENSIONS (W×H×D) [mm]	РІЕАТ DЕРТН [mm]	FILTER MEDIUM	FILTER AREA [m²]	NUMBER OF PLEATS
FP 0110 C6014N	515×600×52	15	PES	1.4	40
FP 0110 C6014L	515×600×52	15	PES, AS	1.4	40
FP 0110 C6014C	515×600×52	15	PES + PTFE Membrane	1.4	40
FP 0110 C6014D	515×600×52	15	P <mark>ES, A</mark> S + PTFE Membrane	1.4	40
FP 0110 C1024N	515×1000×52	15	PES	2.4	40
FP 0110 C1024L	515×1000×52	15	PES, AS	2.4	40
FP 0110 C1024C	515×1000×52	15	PES + PTFE Membrane	2.4	40
FP 0110 C1024D	515×1000×52	15	PES, AS + PTFE Membrane	2.4	40
FP 0800 C6021N	515×600×52	15	PES	2.1	60
FP 0800 C6021L	515×600×52	15	PES, AS	2.1	60
FP 0800 C6021C	515×600×52	15	PES + PTFE Membrane	2.1	60
FP 0800 C6021D	515×600×52	15	PES, AS + PTFE Membrane	2.1	60
FP 1800 C1050N	578×1045×74	24	PES	5.0	52
FP 1800 C1050L	578×1045×74	24	PES, AS	5.0	52
FP 1800 C1050C	578×1045×74	24	PES + PTFE Membrane	5.0	52
FP 1800 C1050D	578×1045×74	24	PES, AS + PTFE Membrane	5.0	52

Subject to technical changes.

FILTER PLATES | DRYPLEAT / DRYPLEAT NANO

SPECIFICATIONS	
Filter medium	Drypleat nano with sinTexx Plus Advanced
Thermal stability	up to 80 °C
Moisture resistance	up to 100% rel. hum., washable
Flange	PU injection molding head
Note	Electrostatically conductive filter plates must be properly earthed



Features and benefits

DryPleat and DryPleat nano filter plates are ideal for high-quality dry separation of paint overspray with limestone. They are siliconefree and are available for both clean and raw air side applications.

- With their robust design and excellent cleanability, the filter plates guarantee maximum process reliability for users.
- Thanks to their low flow resistance over a long period of time, users can access larger power reserves of their system with a longer runtime.
- Compared to the DryPleat filter plate, DryPleat nano features highquality nanofiber technology with a threelayer structure. This enables particularly low air resistance for even longer running times.
- Viledon® DryPleat and DryPleat nano are silicone-free and can easily be handled during filter replacement and installation thanks to their stable design and low weight.

Note

The DryPleat and DryPleat nano filter plates are available as versions for the use in potentially explosive atmospheres. Please get informed about the current certificates of conformity.

Delivery notes

Customized product variants and dimensions available on request. Please ask our customer service for technical data.

ARTICLE	DIMENSIONS (W×H×D) [mm]	PLEAT DEPTH [mm]	FILTER MEDIUM	FILTER AREA [m²]	NUMBER OF PLEATS
DryPleat 2909	566×1500×80	23	FE 2834 Polyester + PTFE Membrane antistatic	4.7	36
DryPleat 2909M	566×1500×80	24	FE 2834 Polyester + PTFE Membrane antistatic	5.0	36
DryPleat nano 2909	566×1500×80	23	sinTexx Plus advanced antistatic	4.7	36
DryPleat nano 2909M	566×1500×80	24	sinTexx Plus advanced antistatic	5.0	36

ACCESSORIES | LEAK DETECTION POWDER



Application

In case of suspected leakages in dedusting plants, the leak detection powder can be used to make the leakage points easy to identify.

Features and benefits

- The leak detection powder is fed into the suction tract while the system is running and extracted instead of the process dust.
- In the event of a leak, noticeable coloring from the powder allows easy optical identification of the leak.
- However, even smaller leaks can be clearly localized with the aid of UV lighting, since even the smallest quantities of the powder can be detected thanks to their fluorescent properties.



53430419

Leak detection powder

NUTRITEXX, COOLTEXX, PLURATEXX, NOVATEXX



Viledon® sets the standard for industrial liquid filtration in terms of quality, reliability and versatility: with nutritexx for food and beverage filtration, with cooltexx for coolant and lubricant filtration, with pluratexx for oil, urea and fuel filtration and with novatexx as support media for membranes.

Simply scan the QR code and find out more about liquid filtration!



NUTRITEXX | FOOD-GRADE NONWOVENS



SPECIFICATIONS	
Material	Polyester (some with cellulose content), Polypropylene
Bonding	Chemical or thermal
Food-grade testing	dependent on the filter fleece, (EU) NO 10/2011, FDA 21 CFR

Application

Whether for food and beverage or drinking water filtration: In stringently hygienic areas such as food and beverage or drinking water filtration producers require special filter media which fulfill the various requirements and highest standards – Viledon® nutritexx filter media ensure the perfect combination of hygiene, efficiency and diversity.

Features and benefits

- Good processability for making bags (sewing, welding, die-cutting)
- Long operational lifetime
- Low pressure drop
- · High wet strength

Delivery notes

Customized roll dimensions available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m ⁻]	AIR PERMEABIUTY AT 100 PA [I/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ ACROSS [N/5 cm]	THICKNESS APPROX. [mm]
nutritexx 2640	100	150	130/220	0.19
nutritexx 2641	100	900	120/75	0.63
nutritexx 2690N	70	1,600	70/50	0.6
nutritexx 2693N	65	1,800	80/60	0.53
nutritexx 2681	30	3,500	20/14	0.25
nutritexx 2007	100	90	95/65	0.74
nutritexx 5021	50	90	40/25	0.35

Subject to technical chang

NUTRITEXX | DRINKING WATER FILTER MATS

SPECIFICATIONS	
Fiber	Polyester
Principal application	Drinking water filtration



Application

Subject to technical changes.

nutritexx 2020 is made from 100% food-grade fibers. It is therefore particularly well suited for the application of ion exchangers and drinking water. Physiologically safe raw materials in conjunction with state-of-the-art production technology guarantee a filter medium that consistently meets the food and beverage industries' stringent requirements in terms of hygiene, efficiency and extractable constituents.

Food-grade testing to:

- 2011/10/EC
- FDA 21 CFR 177.1630
- KTW (Plastic, Drinking Water) Guideline of the UBA (German Federal Environmental Agency)
- DVGW (German Association of the Gas and Water Industry) Worksheet W 270

FILTER

ARTICLE

[mm/m]

COOLTEXX | POLYESTER SPUNBONDED NONWOVENS



SPECIFICATIONS	
Material	Polyester endless filaments
Bonding	Thermal
Band filter principle	Pressure vacuum
Machining process	Rotating milling drilling grinding

Application

Viledon® cooltexx polyester spunbond media have a high mechanical and chemical resistance, are budget products, and on demand we also deliver food grade versions. Due to their excellent tensile strength, they can also be used on vacuum and pressure belt lines, where the filter material is under high mechanical stress.

Features and benefits

- Long lifetime
- Maximized process dependability
- Good filter cake detachment
- Optimum process matching
- Maximized mechanical strength
- Filtration based on sieving effect
- Smooth surface
- · High separation efficiency

Delivery notes

Customized lengths available on request.

ARTICLE	FIBER STRUCTURE	WEIGHT PER UNIT AREA APPROX. [g/ m³]	AIR PERMEABILITY AT 100 PA [I / (s× m²)]	AIR-PERMEABILITY AT 125 PA [I / (s×m²)]	THICKNESS APPROX. [mm]
cooltexx 6430	Fine fibers	30		3,700	0.15
cooltexx 6450	Fine fibers	50		2,533	0.22
cooltexx 6470	Fine fibers	70		1,806	0.31
cooltexx 6534	Fine fibers point-bonded	34		2,500	0.16
cooltexx 6550	Fine fibers point-bonded	50		1,426	0.23
cooltexx 6570	Fine fibers point-bonded	70		885	0.30
cooltexx 7230	Coarse fibers	30	4,420		0.12
cooltexx 7250	Coarse fibers	50	3,630		0.20
cooltexx 7270	Coarse fibers	70	2,600		0.28
cooltexx H7210	Coarse fibers	100	1,800		0.39

Subject to technical changes.

COOLTEXX | POLYPROPYLENE SPUNBONDED NONWOVENS

SPECIFICATIONS	
Material	Polypropylene endless filaments
Bonding	Thermal
Band filter principle	Pressure vacuum
Machining process	Rotating milling drilling grinding



Application

Viledon® cooltexx polypropylene spunbond media have a high mechanical and chemical resistance. Thanks to their excellent tensile strength, they can also be used on vacuum and pressure belt lines, where the filter material is under high mechanical stress.

Features and benefits

- Adsorption of foreign oil from the emulsion
- High chemical stability
- Good filter cake detachment
- · Oleophilic and hydrophobic fibers
- Pure polypropylene
- Smooth surface

Delivery notes

Customized lengths available on request.

ARTICLE	WEIGHT APPROX. [g/m³]	AIR-PERMEABILITY AT 125 PA [I/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ ACROSS [N/5 cm]	THICKNESS APPROX. [mm]	FIBER STRUCTURE
cooltexx 3423	23	3,350	45/35	0.23	Fine fibers point-bonded
cooltexx 3440	40	1,550	100/60	0.38	Fine fibers point-bonded
cooltexx 3450	50	900	90/60	0.38	Fine fibers point-bonded
cooltexx 3470	70	750	180/100	0.48	Fine fibers point-bonded

COOLTEXX | CELLULOSE-POLYESTER MEDIA



SPECIFICATIONS	
Material	Cellulose + Polyester
Bonding	Chemical
Band filter principle	Gravitation pressure vacuum
Machining process	Grinding honing lapping (fine-smoothing)

Application

Viledon® cooltexx filter media with a cellulose content are used predominantly in aqueous solutions, where a low pressure drop is a primary consideration, e.g. with pure gravity systems. The hydrophilic properties of the cellulose ensure good wettability for water, so that despite the fine fibers used and the good particle arrestance only a low pressure drop ensues.

Features and benefits

- Hydrophilic fine-fiber medium with good water wettability
- Long operational lifetime thanks to depth-loading filtration
- Low pressure drop thanks to good wettability
- High separation efficiency, even with fine particles

Delivery notes

Customized lengths available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m³]	AIR PER MEABILITY AT 100 PA [I/(s×m²)]	THICKNESS APPROX. [mm]
cooltexx 2652	17	3,220	0.18
cooltexx 2653	23	2,010	0.22
cooltexx 2654	32	1,350	0.26
cooltexx 2662	25	3,930	0.26
cooltexx 2663	37	2,770	0.32
cooltexx 2664	50	1,800	0.38
cooltexx 2666	60	2,150	0.50
cooltexx 2693	70	2,000	0.53

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Subject to tec

COOLTEXX | DEPTH FILTER

SPECIFICATIONS	
Production process	Wet laid process
Material	Polyester (partly with cellulose content)
Bonding	needled + chemical
Band filter principle	Gravitation pressure / vacuum
Machining process	Grinding honing lapping (fine-smoothing)



Features and benefits

- Particularly long operational lifetime thanks to deep bed filtration
- Low pressure drop
- High separation efficiency, even for fine particles
- High dust holding
- Depth-loading filter high nonwovens thickness

Delivery notes

Subject to technical changes.

Customized lengths available on request.

ARTICLE	WEIGHT APROX. [g/m²]	AR PERMEABILITY AT 100 PA [1/(s×m ³)]	MAXIMUM TENSILE FORCE ALONG/ ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG / ACROSS	THICKNESS APPROX. [mm]
cooltexx 9210N	100	1,000	120/100	12/15	0.7
cooltexx 2689	130	1,000	160/90	13/16	1.0

PLURATEXX | OIL, UREA AND FUEL FILTRATION



SPECIFICATIONS	
Material	Polyester, Polypropylene
Bonding	Thermal

Whether for oil, urea or fuel filtration, Freudenberg Filtration Technologies high-quality filter media allow reliable removal of dirt particles, ensuring motor function and oil quality, and guarantee economic vehicle operation. Viledon® pluratexx filter media fulfill the various requirements of the hydraulic and automotive industry and assure the perfect combination of hygiene, efficiency and diversity.

Features and benefits

- · High efficiency thanks to fine fibers
- Long operational lifetime (high dust holding capacity)
- · High mechanical strength and resistance to chemicals
- No fiber release, no glass-fibers

Delivery notes

Customized roll dimensions available on request.

ARTICLE	WEIGHT PER UNIT AREA APPROX. [g/m³]	AIR-PERMEABILITY AT 200 PA [1/(s×m²)]	PORE SIZE: LARGEST PORE/MFP [μm]	PARTICLE SIZE AT 90 % ARRESTANCE EFFICIENCY [μm]	PARTICLE SIZE AT 99 % ARRESTANCE EFHCIENCY [μm]	DUST HOLDING CAPACITY [g/m³]	THICKNESS APPROX. [mm]
pluratexx 2037	155	400	55/22	15	22	150	0.95
pluatexx 5112	120	345	35/18	15	22	115	0.67
pluratexx 5021	50	200	25/11	7	12	75	0.35
pluratexx 2001 KN	62	100	18/11	5	9	65	0.24

NOVATEXX | DRAINAGE NONWOVEN FOR FILTER CARTRIDGES

SPECIFICATIONS	
Maximum width	2,000 mm
Standard lengths	500 m, 1,000 m



In the production of filter cartridges, Viledon® novatexx spunbonded nonwovens serve as "spacers" between the pleats on the face side and as a drainage layer on the clean side. The performance profiles of the media concerned can be very specifically designed to requirements. The nonwovens involved can be easily pleated together with the membrane without damaging the latter.

In the products of the 20xx series, the use of special bi-component fibers creates particularly high rigidity, which is indispensable for the pleating operation and significantly enhances the stability of the filter cartridge.

The raw materials used meet the requirements laid down for safety in food, beverage, medical and pharmaceutical applications.

Delivery notes

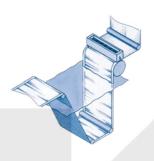
Customized dimensions are available on request. Please protect products from exposure to direct sunlight.

	ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m³]	AIR PERMEABILITY AT 100 PA [J/{s×m²}]	MAXIMUM TENSILE FORCE ALONG/ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG/ACROSS [%]	THICKNESS APPROX. [mm]
	novatexx 2010	PP Biko	50	1,300	155/90	60/70	0.24
	novatexx 2019	PP Biko	70	1,200	170/90	60/70	0.44
ges.	novatexx 2035	PP Biko	30	1,800	85/50	50/50	0.15
chan	novatexx 2036	PP Biko	30	3,900	60/35	60/60	0.23
nical	novatexx 2043	PP Biko	50	1,800	140/70	60/70	0.32
Subject to technical changes.	novatexx 6317	PP	17	2,100 [50 Pa]	25/25	50/50	0.21
ct to	novatexx 6320	PP	20	1,900 [50 Pa]	35/30	40/40	0.24
Subje	novatexx 6340	PP	40	1,300	85/85	70/70	0.40

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NOVATEXX | CARRIER MATERIALS FOR FLAT MEMBRANES



SPECIFICATIONS	
Minimum width	15 mm
Standard lengths	500 m, 1,000 m

Viledon® novatexx products for flat membranes stand for superior results in membrane production. The carrier materials are made of synthetic polymers, and are crucial to the mechanical and filtering properties of the filtration membranes. The specially created surface porosity enables the membrane solution to penetrate into the nonwoven, so as to achieve good adhesion results.

There is an option for additionally customizing the products by modifying the surface to suit the particular membrane production process involved.

All polymers used are suitable for contact with food and beverage.

Delivery notes

Customized lengths, widths and surface modification available on request. Please protect products from exposure to direct sunlight.

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m³]	AIR-PERMEABILITY AT 200 PA [[/(s×m²)]	MAXIMUM TENSILE FORCE ALONG/ ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG / ACROSS [%]	THICKNESS APPROX. [mm]
novatexx 2413	PET	100	300	125/240	10/25	0.19
novatexx 2430	PP/PE	100	150	200/300	65/65	0.22
novatexx 2431	PP/PE	60	500	110/170	60/85	0.14
novatexx 2432	PP/PE	32	700	60/80	50/70	0.11
novatexx 2463	PP/PE	50	2,500	100/85	30/30	0.35
novatexx 2465	PP/PE	30	4,000	65/60	25/30	0.31
novatexx 2470	PP/PE	60	200	200/150	28/28	0.12
novatexx 2471	PP/PE	85	150	270/170	25/30	0.18
novatexx 2473	PP/PE	27	2,100	80/55	20/25	0.11
novatexx 2483	PET/PBT	70	100	170/110	25/30	0.10
novatexx 2484	PET/PBT	85	60	300/200	25/30	0.12
novatexx 2443	PET/PBT	25	3,000	60/35	15/22	0.05

Subject to technical changes.

NOVATEXX | CARRIER MATERIALS FOR TUBULAR MEMBRANES

SPECIFICATIONS	
Minimum width	15 mm
Roll length	500 m



Viledon® novatexx products for tubular membranes are very well established in the membrane industry. The products are predominantly made of polyester fibers, and offer a high degree of stability. Combined with specially created surface porosity, novatexx products stand for superlative results in terms of membrane production.

There is an option for additionally customizing the products to suit the particular membrane production process involved, by surface modification or by providing an adhesive-compound finish.

All polymers used are suitable for contact with food and beverage.

Delivery notes

Customized lengths, adhesive-compound coating and surface modification available on request. Please protect products from exposure to direct sunlight.

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m³]	AIR-PERMEABILITY AT 200 PA [[/(s×m²)]	MAXIMUM TENSILE FORCE ALONG / ACROSS [N/5 cm]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG / ACROSS [%]	THICKNESS APPROX. [mm]
novatexx 2413	PET	100	300	125/240	10/25	0.19
novatexx 2416	PET	205	6	500/550	25/30	0.25
novatexx 2436	PET	235	4	550/600	20/35	0.27
novatexx 2472	PP/PE	200	90	650/380	25/28	0.42
novatexx 2482	PET/PBT	215	8	800/380	28/28	0.25



Freudenberg Filtration Technologies offers high-quality accessories matched to the entire range of filters. These include mounting frames for air filters, clip-on seals for mounting frames and pressure drop measuring instruments.

Simply scan the QR code and find out more about filtration accessories!



MOUNTING FRAMES



SPECIFICATIONS	
Note	ARV = Mounting frame galvanized; ARE = Mounting frame stainless stee

Design features

- High inherent rigidity thanks to special jointing process and large construction depth.
- · Centering guides assure optimum positioning of the filter elements.
- Consistent leakproofing thanks to four friction-locked clamping springs, which are fixed in position in "locking noses".
- The shape of the springs enables the filters to be easily installed and removed, since the free cross-sectional area of the mounting frame is available in full.
- The boreholes for the screws have been selected so as to ensure that mounting frames of different sizes can be combined without any problems.
- An ultra-flexible, silicone-free rubber clip-on seal with a hollow compartment is supplied with the frame. The clip-on seal is weatherproof and thermally stable within a range of approx. -40 °C to +100 °C, with good resistance to alcohols, lyes and weak acids, and very long-lived.
- Depending on the size of the filter wall, and the stresses acting on it, we recommend providing additional reinforcements as a substructure.
 M6×8 screws should be used for affixing the frames; if reinforcements are provided, then correspondingly longer screws must be selected.

Application category

Designing new air-conditioning systems and modifying existing ones with variable dimensions.

Use

Supporting Viledon® filters with a top frame, e.g. Compact pocket filters or MaxiPleat cassette filters. Panel filters featuring the standard depth of 48 mm can also be installed.

Execution

Non-corroding stainless steel (material 1.4301) or galvanized steel sheeting (U-St 1203), burr-free, inherently rigid, in four sizes. Operationally dependable clamping spring system with four clamping springs and mechanical locking, including rubber clip-on seal enclosed loose. The mitered corners are rendered airtight with a permanently elastic sealing compound.

ARTICLE	ARTICLE NUMBER	DIMENSIONS (W×H×D) [mm]	SUITABLE FOR FILTERS IN THE DIMENSIONS [mm, approx.]
ARV-LD NF 1/1 A-Galvanized frame with gasket	53373316	610×610×75	1/1592×592
ARE-LD NF 1/1 A-Stainless steel frame with gasket	53373325	610×610×75	1/1592×592
ARV-LD NF 5/6 A-Galvanized frame with gasket	53435027	508×610×75	5/6 490×592
ARE-LD NF 5 / 6 A-Stainless steel frame with gasket	53435039	508×610×75	5/6 490×592
ARV-LD NF 1/2 A-Galvanized frame with gasket	53377509	305×610×75	1/2 287×592
ARE-LD NF 1/2 A-Stainless steel frame with gasket	53377510	305×610×75	1/2 287×592
ARV-LD NF 1/4 A-Galvanized frame with gasket	53435028	305×305×75	1/4287×287
ARE-LD NF 1/4 A-Stainless steel frame with gasket	53435040	305×305×75	1/4287×287

Subject to technical changes.

SEALS



Clip-on seal

- U-shaped seal profile made of closed-pore EPDM soft rubber with embedded wire clamping band and formed sealing lips plus a hollow compartment made of EPDM cellular rubber; colour: black.
- The seal can be installed without needing any tools simply by pressing it in place by hand.
- The clip-on seal is held in position by the clamping effect of the rubber lips; no adhesives or other attachment aids are required.
- The Viledon® clip-on seal is weatherproofed and thermally stable in the range from -40 °C to +100 °C, possesses good resistance to alcohols, lyes and weak acids, and is durable. It is not resistant to concentrated acids, chlorinated hydrocarbons, aromatic hydrocarbons, oil and fuel.
- Good paint-compatibility, silicone-free.

Delivery notes

Other seals available on request.

ARTICLE	ARTICLE NUMBER	LENGTH
Clip-on seal AR 2.5 running meters	53453283	2.5
Clip-on seal AR 50 meters roll	53466122	50

MORE INFORMATION





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Thanks to the reorganized structure of the website, Freudenberg Filtration Technologies is clearly divided into three main areas of activity: Automotive, Industrial and Living. These three worlds are in turn subdivided into eight segments offering a choice of 40 industries. A simplified navigation menu makes it easy to find the precise products and services you need. The website is available in German, English and Chinese.

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Your product catalog editorial team

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Notes on technical specification:

Filter groups according to ISO 16890
Measurements according to ISO 16890
are performed exclusively for our
Viledon® filters. The results cannot be

Filter classes

Groups G to F according to EN 779:2012 Groups E to U according to EN 1822:2009 / ISO 29463

Energy efficiency classes | Energy consumption According to EUROVENT 4/21, measured at 3 400 m³/h

Freudenberg Filtration Technologies SE & Co. KG

Viledon® product catalog editorial office 69465 Weinheim, Germany marketing@freudenberg-filter.com

Date of publication: January 2019

Replaces all previous editions of this catalog.

The figures given are mean values with tolerances due to normal fluctuations in production. The correctness of the data and its transferability require our express written confirmation in each individual case. Technical changes, errors and misprints excepted. Product illustrations may differ.

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OVERVIEW OF FILTER CLASSES

Due to the different approaches, it is not possible to directly transfer ISO 16890 to the previously standard EN 779 filter classes. The two standards DIN EN 779:2012 and DIN EN 1822:2011 build on each other and are coordinated with each other. However, due to different test conditions between DIN EN 60335:2010 and these two standards, a comparison of the dust classes with the filter classes is only approximately possible.

We would be pleased to provide you with more information in a personal consultation.



iso16890@freudenberg-filter.com

	Particulate for general	e air filters ventilation		
Efficiency classification bas	DIN EN ISO 1 sed on the degree of particulate matte		44 m³/s or nominal flow rate	
ISO Coarse ePM ₁₀ < 50 %	ISO ePM10 ePM₁₀ ≥ 50 %	ISO ePM2,5 ePM _{2.5min} ≥ 50 %	ISO ePM1 ePM _{1min} ≥ 50 %	
30% 35% 40% 45% 50%				
40% 45% 50% 55% 60% 65%				
60% 65% 70% 75% 80% 85%				
80% 85% 90% 95%	50% 55% 60% 65% 70%			
22.0[22.0]22.0	60% 65% 70% 75% 80% 85%	50%		
		50% 55% 60% 65% 70% 75%	50% 55% 60% 65%	
			65% 70% 75% 80% 85% 90%	
			80% 85% 90%	
			90% 95%	
			95%	

DIN EN ISO 16890:2017

The fractional separation efficiency measurements are carried out on the entire filter element, both when new and after discharge with isopropanol. The average collection efficiency is calculated from these measurements. The separation efficiency measurement is only measured with aerosol (DEHS, KCl), and no longer in connection with dusting. For metrological reasons, the separation efficiencies ePM₁, ePM_{2,5} and ePM₁₀ are given for the fine dust fractions $0.3-1.0~\mu m~(ePM_{10})$. A direct translation of filter classes from the now invalid EN 779:2012 into the DIN EN ISO 16890:2017 filter grouping is not possible.

DIN EN 779:2012

The minimum efficiency is the lowest efficiency determined from the efficiency of the unloaded filter, the initial efficiency and the lowest efficiency that is measured during loading. Since July 2018, EN 779:2012 has been withdrawn. It has been replaced by ISO 16890:2016. In Germany, ISO 16890 is valid as DIN EN ISO 16890:2017.

DIN EN 1822:2011 and ISO 29463

First, the fractional efficiency of the flat sheet filter medium is measured and the particle size at which minimum efficiency occurs (MPPS) is determined. The integral arrestance of the filter element is determined for the minimum efficiency (MPPS) at nominal volume flow rate. Filters of group E cannot and need not be leak-tested for classification purposes; group E filters are rated statistically (DIN EN 1822-5:2011). Filters of groups H and U shall each be tested integrally and individually for zero leakage. Filters of group H shall pass one of the three leak test methods described in DIN EN 1822-4:2011. Filters of group U are tested exclusively using the scan method (DIN EN 1822-4:2011). The particle size at which minimum arrestance occurs is 0.1 to 0.2 µm for fibre-glass media, and less than 0.1 µm for PTFE membrane filter media.

ı	Filter application		Particulate air filte for general ventilat				fficiency air filters , HEPA and ULPA)		
L	TEST STANDARD	EN 779:2012 Determination of filtration performance bei 0.944 m³/s (or nominal volume flow rate)		EN 1822:2011 ISO 29463 Evaluation of filter performance at nominal air fl			inal air flow		
l	FILTER GROUP	FILTER CLASSES	TEST DUST/ AEROSOL	AVERAGE EFFICIENCY FOR 0.4 µm PARTICLES [%]	FILTER CLASSES ACC. TO EN 1822	FILTER CLASSES TO ISO 29463	TEST AEROSOL	INTEGRAL VALUE OF EFFICIENCY IN THE MPPS [%]	
		G1		-					
	G	G 2	ASHRAE dust	-					
		G 3		-					
		G 4		-					
	M	M 5		-					
		M6	DEHS (Di-Ethyl-Hexyl-	-					
		F7	Sebacate)	35					
	F	F8	0.2-3.0 μm	55					
		F9		70					
					E 10	-		≥85	
					E 11	ISO 15 E		≥95	
	E		EPA: Efficient Particulate	Air filter		ISO 20 E		≥99	
					E12	ISO 25 E		≥99.5	
						ISO 30 E		≥99 <mark>.9</mark>	
					H13	ISO 35 H	DEHS	≥99.95	
	Н	ŀ	HEPA: High <mark>Effi</mark> ciency Particu	ılate Air filter		ISO 40 H	(Di-Ethyl- Hexyl-Sebacate)	≥99. <mark>99</mark>	
					H14	ISO 45 H	MPPS	≥99. <mark>995</mark>	
						ISO 50 U	0.1-0.3 μm	≥99, <mark>999</mark>	
					U15	ISO 55 U		≥99.9995	
	U					ISO 60 U		≥99.9999	
			ULPA: Ultra Low Penetratio	n Air filter	U16	ISO 65 U		≥99.99995	
						ISO 70 U		≥99.99999	
					U 17	ISO 75 U		≥99.999995	

High efficiency air filters (EPA, HEPA and ULPA)						
EN 1822:2011 ISO 29463 Evaluation of filter performance at nominal air flow						
INTEGRAL VALUE OF PENETRATION IN THE MPPS [%]	LOCAL CALUE OF EFFICIENCY IN THE MPPS '[%]	LOCAL CALUE OF PENETRATION IN THE MPPS [%]	OUTDATED:: DIN EN 1822:1998 (PREDECESSOR DIN 24184)			
≤15	_	_	H10			
≤5	_	_	H11			
≤1						
≤0.5	-	-	H12			
≤0.1						
≤0.05	≥ <mark>99.</mark> 75	≤0.25	H13			
≤0.01	≥ <mark>99.</mark> 95	≤0.05				
≤0.005	≥ <mark>99.</mark> 975	≤0.025	H14			
≤0.001	≥99.995	≤0.005				
≤0.0005	≥99.9975	≤0.0025	U 15			
≤0.0001	≥99.9995	≤0.0005	1146			
≤0.00005	≥99.99975	≤0.00025	U16			
≤0.00001 ≤0.000005	≥99.9999 ≥99.9999	≤0.0001 ≤0.0001	U 17			
20.000003	£ JJ.J333	2 0.0001	01/			

Dust removal equipment and filter material used for filtering air to be returned to the workplace

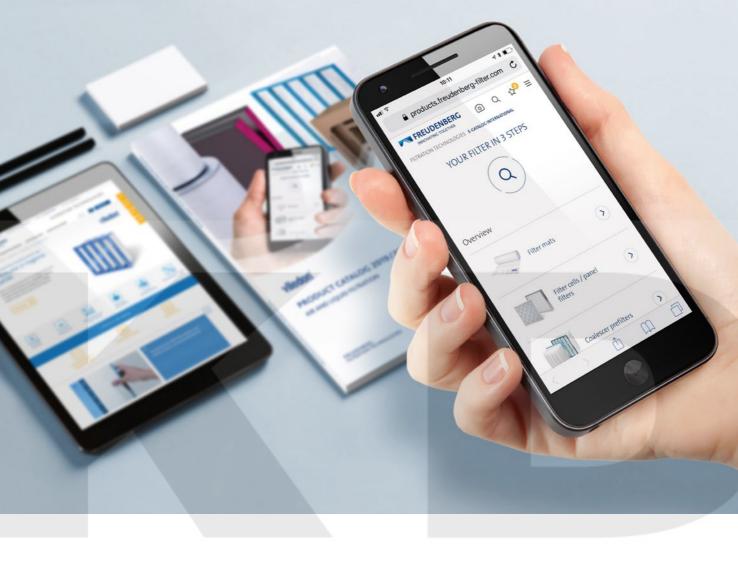
DIN EN 60335-2-69:2010 Annex AA

DUST CLASS	TEST DUST/ AEROSOL	MAXIMUM PENETRATION IN %	SUITABLE FOR DRY, HARMFUL, NON-COMBUSTIBLE DUSTS	OUTDATED: ZH 1/487 OF THE GERMAN EMPLOYERS' LIABILITY INSURANCE
	200 mg/m³ quartz dust 90% 0.2 – 2	st <1	Dusts subject to WELs* > 1 mg/m³	U S
L				G
Μ	μm (Stokes)	< 0.1	Dusts subject to WELs*≥0,1 mg/m³	С
Н	10 mg/m³ to 80 mg/m³ paraffin oil mist 90% < 1 μm (Stokes)	< 0.005	Dusts subject to WELs* ≥ 0.1 mg/m³	K1/K2

*WEL = Workplace Exposure Limit

DIN EN 60335-2-69:2010 Annex AA

Dust removal equipment (e.g. vacuum cleaners and dust extractors for commercial use) were tested and classified according to ZH 1/487. This purely national test method has been converted into an European standard, which has been the basis for rating dust removal equipment since 1998. In 2010, this standard DIN EN 60335-2-69 was adapted to the basic requirements of EC Machinery Directive 2006/42/EC with the aim to have it listed under this Directive.



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Freudenberg Filtration Technologies develops and produces high-performance, energy efficient filtration solutions, designed to make industrial processes more efficient, save resources and protect people and our environment, and thus to improve the quality of life. Our Viledon® and micronAir® brands enjoy an enviable reputation worldwide. Viledon® ensures optimum results in industrial air and liquid filtration systems, while micronAir® fine-dust filters are used as intake air filters for the engine and the passenger compartment in the automotive industry, as well as for improving indoor air quality in buildings. For nearly 2,100 associates at 33 facilities all over the world, customer satisfaction is the overriding goal.

Freudenberg Filtration Technologies is part of the Freudenberg Group. Besides filtration solutions, Freudenberg develops and manufactures seals, vibration control components, nonwovens, surface treatment products, release agents, speciality lubricants, medical technology, mechatronic and household products. Creativity, quality, diversity and innovative strength are the group's cornerstones. Reliability and responsible conduct rank among the basic values of the company which was founded over 170 years ago. Freudenberg is committed to partnerships with customers, and believes in a long-term orientation, financial solidity and the excellence of more than 48,000 associates in 60 countries around the globe.



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