

# AAF Company Profile

Clean air is essential in life. The buildings we live in, offices we work in, products we consume, cars we drive and the energy we use, for all clean air is a necessity. AAF-International provides and offers the highest possible filtration solutions. Our products protect people, products and processes against the pollution in the outside air and protect the environment against the emission caused by industrial processes.

AAF-International air filters, air pollution control products and systems have an established reputation for quality and reliability which dates back to 1921. AAF-International employs 2700 people worldwide. In Europe 1000 employees serve the



market throughout diverse manufacturing centres and sales offices. AAF is owned by Daikin Industries, global supplier of air conditioning and refrigeration products, systems and chemicals. AAF's mission is clearly stated by its slogan:

*Better Air is Our Business*

## About this Brochure

In this brochure a summary of particulate, molecular filters and air filter components are included for a wide range of applications.

*A colour scheme is used to indicate the application:*

**Green** = Commercial and Industrial filters to improve the quality of air in hospitals, schools, airports, museums, hotels, shopping malls and many other types of commercial and public buildings.

**Blue** = Cleanroom components & filters to provide clean air, in critical applications and micro environment prevent product contamination and inhibit the spread of infection.

**Red** = Automotive filters to provide the clean air needed to supply a smooth paint on your car.

**Yellow** = Gas Turbine filters to provide the clean air that protect the gas turbine installations. These filters are displayed in a separate Gas Turbine brochure.

*For more information of the filtration solutions AAF has to offer, please visit us at [www.aafeurope.com](http://www.aafeurope.com)*





# Selection Guide

		<b>EN 779 Class</b>
<b>Coarse Filters (G)</b>	<u>AmerGlas M57, Amerglas Standard, AmerTex R15 &amp;R17, Roll-O-Mat M85, HV 2000 (Dry), MetaNet</u>	G1 Am < 65
	<u>AmerGlas 5700, AmerGlas M57, AmerTex R29, Roll-O-Mat M94, MetaNet with Viscosine, NetPly, HV2000 (with Viscosine)</u>	G2 65 ≤ Am < 80
	<u>AmerTex R50, AmAir 300, AmAir HT, ChevroNet, CG, Perfect Pleat HC&amp;Ultra, DriPak 25,</u> <u>AmerTex F, AmAir 500, DriPak GF, DriPak 2000, DriPak 2000 P</u>	G3 80 ≤ Am < 90
<b>Fine Filters (F)</b>	<u>DriPak GF, DriPak 2000 S, DriPak 2000 P, VariCel, VariCel VXL, VariCel Eco Pak, VariCel M-Pak, VariCel HT</u>	G4 90 ≤ Am
	<u>DriPak GF, DriPak 2000 S, DriPak 2000 P, VariCel, VariCel VXL, VariCel Eco Pak, VariCel M-Pak, VariCel HT</u>	F5 40 ≤ Em < 60
	<u>DriPak GF, DriPak 2000 S, DriPak 2000 P, VariCel, VariCel VXL, VariCel Eco Pak, VariCel M-Pak</u>	F6 60 ≤ Em < 90
	<u>DriPak 2000 S, DriPak 2000 P, VariCel, VariCel VXL, VariCel EcoPak, VariCel M-Pak, VariCel Dihedral</u>	F7 80 ≤ Em < 90
<b>HEPA &amp; ULPA Filters (H &amp; U)</b>	<u>BioCel, BioCel VXL, BioCel M-Pak</u>	F8 90 ≤ Em ,95
	<u>BioCel I, BioCel II, BioCel III, BioCel VXL, BioCel Dihedral</u>	F9 95 ≤ Em
	<u>AstroCel III, AstroCel VXL</u>	<b>EN 1822 Class</b>
	<u>AstroCel I, AstroCel HC, AstroPak, AstroCel II, AstroCel III, AstroCel III NG, AstroCel VXL, AstroCel Dihedral</u>	H10 ≥ 85
	<u>AstroCel II &amp; TM, AstroCel HC, AstroCel Dihedral</u>	H11 ≥ 95
	<u>AstroCel II &amp; TM</u>	H12 ≥ 99.5
	<u>AstroCel II &amp; TM, MegaCel</u>	H13 ≥ 99.95
	<u>AstroCel II &amp; TM, MegaCel</u>	H14 ≥ 99.995
		U15 ≥ 99.9995
		U16 ≥ 99.99995
	U17 ≥ 99.999995	

Note: Am% = Average Arrestance for Coarse Filters in the Classification Range G1 - G4.  
 Em% = Average Efficiency for Fine Filters in the Classification Range F5 - F9 against 0.4 μm.  
 E % = Mean Fractional Efficiency for HEPA & ULPA Filters in the Classification Rvange H10 - U17.  
 MPPS = Most Penetrating Particle Size

# International AAF Offices

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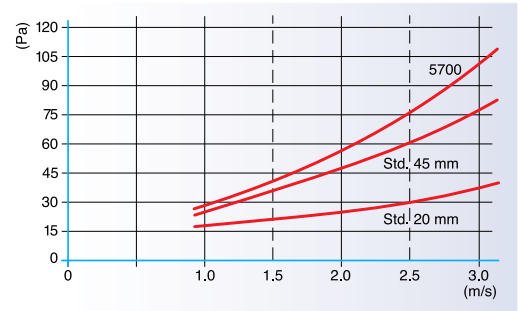


# **Air Filtration Products and Capabilities**

# Panel Filters

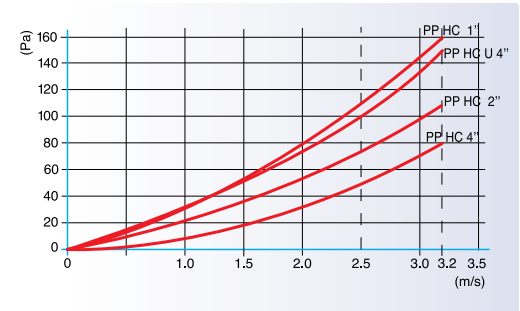
## AmerGlas Standard & 5700

AmerGlas Standard is designed for light industrial and commercial applications, AmerGlas '5700' for tough, heavy duty applications. The glass fibre media of both filters is impregnated to enhance dust holding capacity and filtration efficiency.



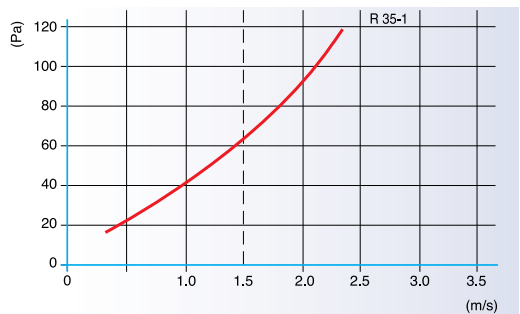
## Perfect Pleat

Perfect Pleat filters offer a consistency in pleat spacing brought by an unique self-supporting media pack. No metal parts are used and the filter is fully incinerable. The perfect pleat is ideally suited as a first stage filter in air handling units and as a prefilter to higher efficiency filters. These filters are available in a high capacity and Ultra (Biostatic Treated) version.



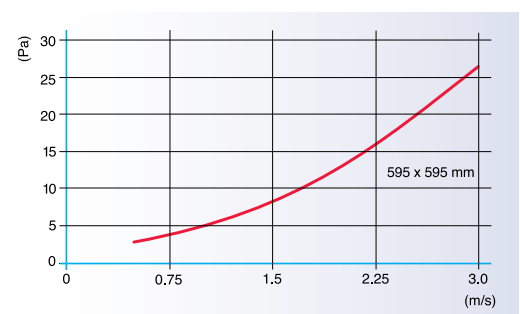
## ChevroNet

Lightweight filters for use in HVAC systems, air handling units and as prefilters to higher efficiency filters. These filters comprise a high quality synthetic media housed in a galvanized steel, stainless steel or aluminium frame. Excellent performance in conditions of high relative humidity.



## MetaNet

MetaNet are washable metal air filters for use in heavy duty industrial applications and in commercial and industrial heating, ventilating and air conditioning systems. Owing to their excellent dust holding capacity and ability to perform in high moisture conditions they are particularly suitable for use as grease filters in kitchen hoods.



Type	AmerGlas Standard & 5700			ChevroNet	Perfect Pleat			MetaNet
	Standard	Standard	5700	R35-1	HC/Ultra	HC/Ultra	HC/Ultra	
Depth (mm)	20	45	45	48	20	44	95	48
EN 779 Class	G2	G2	G3	G4	G4	G4	G4	G2/G3
Max. Temperature (°C)	45	45	45	100	70	70	70	300-500
Initial resistance (Pa)	30	30	60	75	110	75	75/100	15
Final resistance (Pa)	130	130	130	130	250	250	250	13
Rated face velocity (m/s)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Leaflet no.	511	511	511	341	517	515/516	517	129

# Cleanroom Components

## AstroFan FFU

AstroFan FFU is a self-contained ceiling fan filter unit for use in turbulent mixing and laminar air flow cleanroom areas. The unit is equipped with HEPA filters in Class H14 - U17 to EN 1822. The unit operates with a low sound pressure level of 52-56 Db(a).



- Available in 6 standard sizes
- Low noise level
- Light weight bright aluminum housing
- Fan motors with AC or EC technology

## PHG Hood

The PHG Hood is a terminal filter module equipped with a gel seal replaceable HEPA / ULPA filter. The housing is made of corrosion resistant steel with a white epoxy finish and is fitted with a 4-way diffuser, swirl diffuser or perforated plate diffuser, finished in a matching white gloss. For neat appearance, the module has a concealed grille fixing.



- Unique gel seal execution
- Wide range of sizes available
- 2 inlet designs: circular top or circular side
- Rigid leak free construction

## RPT Housing

The RPT Safe Change Housing is a reliable duct housing for the removal of Radioactive, Pathogenic and Toxic contaminants. It can be supplied with a single or double stage filtration system, consisting of a single HEPA filter or a HEPA filter with a prefilter.



- Compact modular design
- Fully enclosed bag system for safe filter change
- Suitable for both vertical downflow and horizontal airflow

## Ceiling Grid Systems

The AstroGel ND fluid grid forms a state of the art cleanroom ceiling grid system when combined with AstroCel II knife edge or TM Hood filters. The system is made of lightweight materials, is extremely strong and capable of taking the weight of a complete filter platform with lights and other accessories. The system is modular in design and can be adapted to fit any area size.



- innovative Design
- Simplified installation
- Maximum flexibility
- Unique gel sealant

## Side Access Housing

Horizontal in-line (SAH) and vertical recirculation (RU) and pressurization (PRU) units for commercial and industrial applications utilizing SAAFCassettes. Available in a wide choice of construction materials and configurations to suit a wide range of applications



- Available as Horizontal Units (SAAF:SAH)
- Available as Vertical Units (SAAF:PRu and Ru)
- Ultra-modern double walled construction for whisper quiet operation

# AAF Filtration Solutions

AAF's filtration solutions are built on the three pillars of research and development, employee training and development and customers service. By being able to provide customers with innovative, cost effective air filter solutions, advice and training and by being a major player in the and representative of the industry standard air filter committees around the world, customers can be assured that they are working with a reputable and reliable partner in AAF.

## EN779:2002/EN1822

All filters marketed by AAF are tested in accordance with the latest European filtration standards. Coarse filters (G1-G4) and Fine filters (F5-F9) are tested to the EN779:2002 standard. HEPA filters (H10-H14) and ULPA (U15-U17) filters are tested to EN1822. See the section guide at page 11.

## Eurovent

All F grade filters that AAF markets in Europe are Eurovent certified. This includes panel, pocket filters and compact filters in class range F5-F9 to EN779:2002. Within this brochure the Eurovent logo is used to indicate products which are Eurovent certified.



AAF's Eurovent Certification guarantees that your filters perform as specified. For more information about the Eurovent Certification Program see [www. Eurovent-certification.com](http://www.Eurovent-certification.com).

## VD16022

All AAF filters are independently tested and approved to the hygienic requirements set by the German standard VD16022. This guarantees that your AAF filters have no negative effect on the hygienic condition of the ventilation system.

## Biostatic Treated Filters

AAF biostatic treated filters inhibit the growth of fungi and bacteria on filter media. This prevents releasing spores and microbes from moving downstream of the air filter and contributes to a better indoor air quality.

## TFM

AAF offers its customers the service of a Total Filter Management program.

With this program AAF will work with its customer to improve quality, reduce filter costs, reduce administration time and to improve control. Our local sales office can inform you about the AAF TFM program in detail.

## Consulting & Advising

All local AAF sales offices can assist you in selecting the best filtration solution for your application.

For further information contact your local sales office mentioned on the back of this brochure.

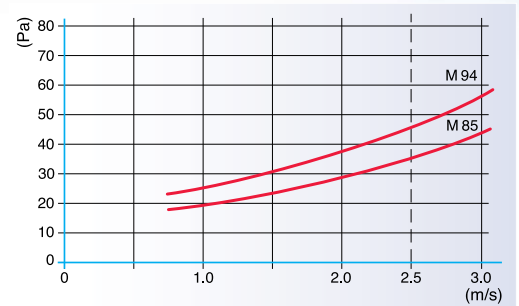
## Brochures and Leaflets

In addition to this brochure AAF International has individual product leaflets which give more detailed information regarding the (technical) product features of the products on display in this brochure.

# Pads and Rolls

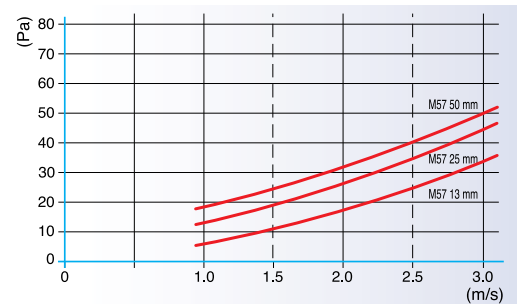
## Roll-O-Mat

Roll-O-Mat glass fibre media is designed for use with AAF's automatic roll filter. The media is strong, maintaining its full width as the roll advances thus ensuring no unfiltered air bypasses the media. There are also versions to suit competitive brand roll filter sizes.



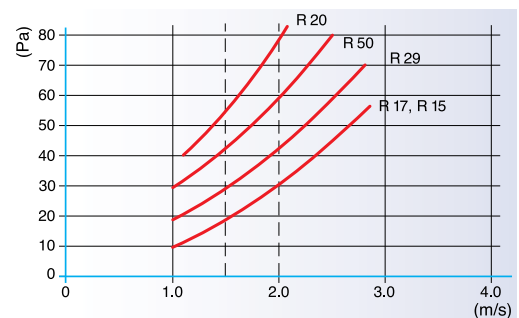
## AmerGlas M57

AmerGlas M57 is a disposable filter media, impregnated with an exclusive dirt trap adhesive to improve dust holding. Both media types are designed for use in air handling units and HVAC systems.



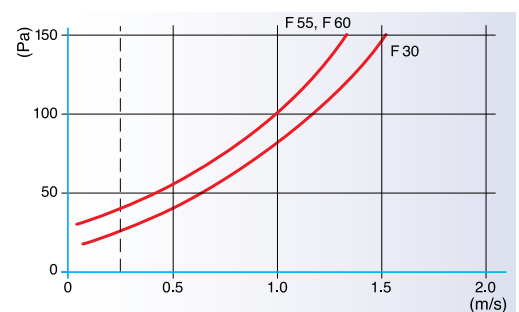
## AmerTex R

AmerTex R is a highly versatile synthetic air filter media that can be used in air handling units, air conditioning and ventilating systems, kitchen hoods and as a prefilter in multi-stage filtration systems.



## AmerTex F

AmerTex F synthetic media is designed for use as a ceiling diffusion media in automotive paint applications. The media offers excellent filtration of fine particulates in the airstream and a high level of cleanliness in the spraying areas.



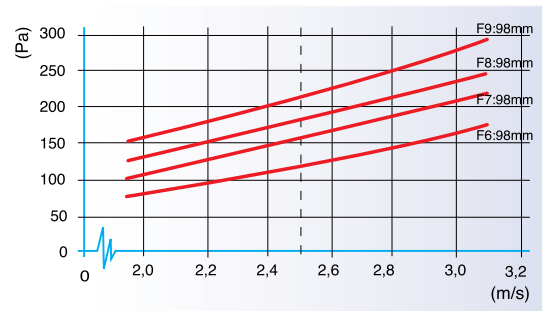
	Roll-O-Mat		AmerGlas			AmerTex R					AmerTex F		
Type	M85	M94	M57	M57	M57	R15	R17	R20	R29	R50	F30	F55	F60
Depth (mm)	50	50	13	25	50	12	8	30	20	16	20	20	20
EN 779 Class	G2	G3	G2	G2	G2	G2	G2	G3	G3	G4	F5	F5	F5
Max. Temperature (°C)	80	80	45	45	45	100	100	65	100	100	100	100	100
Initial resistance (Pa)	35	45	25	35	40	17	17	80	26	42	25	25	25
Final resistance (Pa)	130	130	130	130	130	130	130	250	200	200	450	450	450
Rated face velocity (m/s)	2.5	2.5	2.5	2.5	2.5	1.5	1.5	2.0	1.5	1.5	0.25	0.25	0.25
Leaflet no.	203	203	512	512	512	504	504	504	504	504	532	532	532



# Compact Filters

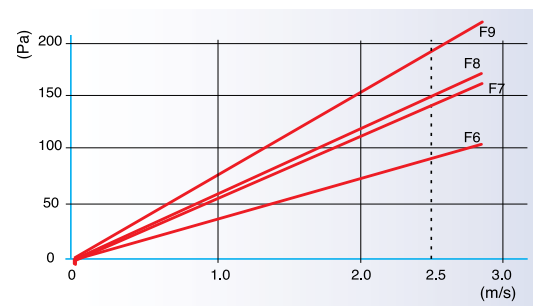
## VariCel EcoPak

VariCel EcoPak is a slim line design compact filter featuring a mini-pleat media pack housed in a high impact polystyrene frame. The filter can be used to upgrade an existing installation from a G rated filter to an F rated efficiency. It can also be used as a secondary filter. The filter is available as biostatic treated and is fully incinerable.



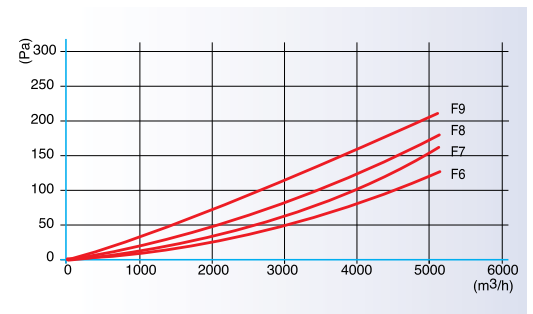
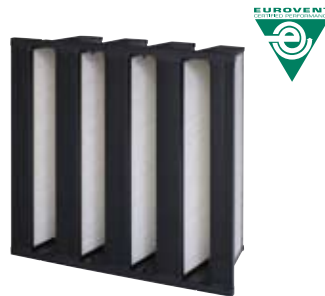
## VariCel M-Pak

VariCel M-Pak features a 4 inch deep mini pleat media pack housed in a sturdy plastic frame with a single or double header profile for easy installation. Lightweight and easy to handle the M-Pak is ideally suited for use as a secondary filter in installations where space is limited. Optionally available with biostatic treated media to improve IAQ, the M-Pak are fully incinerable.



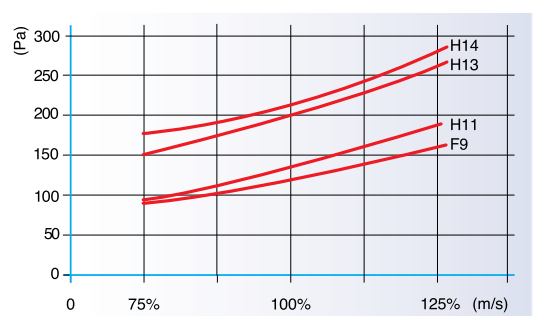
## VariCel VXL

VariCel VXL are lightweight compact filters that feature 8 mini-pleat packs arranged in a V formation housed in a robust plastic frame. Ideally suited for variable volume HVAC systems, VariCel VXL provides the filtration consistency and efficiency required when fan shutdown and start up take place. Also available with biostatic treated media, VariCel VXL are fully incinerable.



## Dihedral

Dihedral filters are used as a prefilter to HEPA filters in laminar flow benches or as a prefilter or main filter in some HVAC installations that can accommodate this type of filter. Dihedral filters feature a dual mini-pleat pack arranged in a V formation for better airflow and are housed in a sturdy plastic frame. Optionally available with biostatic treated media, the filters are fully incinerable.

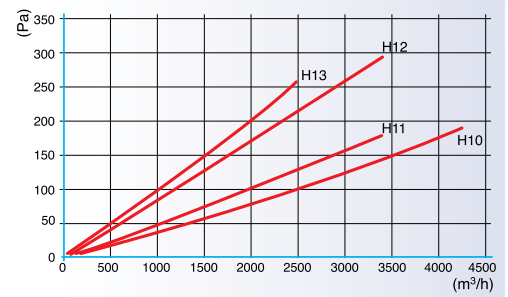


Type	VariCel EcoPak				VariCel M-Pak				VariCel VXL				Dihedral		
	VE 6	VE 7	VE 8	VE 9	VM 6	VM 7	VM 8	VM 9	VVXL6	VVXL7	VVXL8	VVXL9	DH	DH	DH
Depth (mm)	48/98	48/98	48/98	48/98	149/292	149/292	149/292	149/292	292	292	292	292	86,5	86,8	86,5
EN 779 / EN 1822 Class	F 6	F 7	F 8	F 9	F 6	F 7	F 8	F 9	F 6	F 7	F 8	F 9	F9	H13	H14
Max. Temperature (°C)	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Initial resistance (Pa)	70/125	80/155	100/180	130/215	90	140	150	190	130	150	170	210	120	200	210
Final resistance (Pa)	450	450	450	450	450	450	450	450	600	600	600	600	450	450	450
Air capacity (m³/h)	2000/3400	2000/3400	2000/3400	2000/3400	3400	3400	3400	3400	5100	5100	5100	5100	200	200	210
m² media	6.7/11.6	6.7/11.6	6.7/11.6	6.7/11.6	9.7	9.7	11.8	11.8	18.2	18.2	18.2	18.2	2.8	2.8	3.4
Leaflet no.	120	120	120	120	161	161	161	161	363	363	363	363	328	328	328

# Hepa/Ulpa Filters

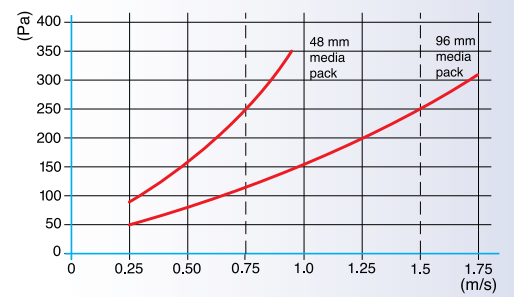
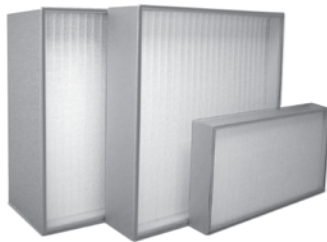
## BioCel VXL / AstroCel VXL

BioCel VXL and AstroCel VXL are lightweight compact filters designed for use as final stage filter in an air handling unit. Available in the EN 1822 classification, range H10 - H13 the filters will deliver the desired air quality.



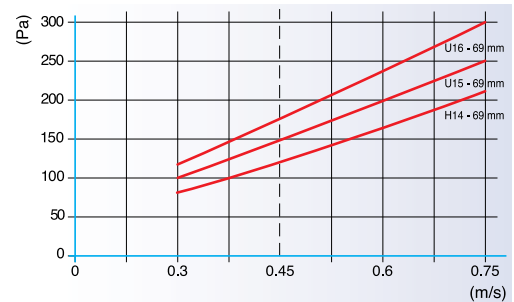
## BioPak / AstroPak

AstroPak and BioPak filters feature are ideally suited as final stage filters in HVAC units in hospital and cleanroom applications. Featuring a mini pleat pack with thermoplastic separators in a solid non-corrosive frame, these filters are designed to provide the necessary levels of particulate removal to protect filters downstream in the cleanroom.



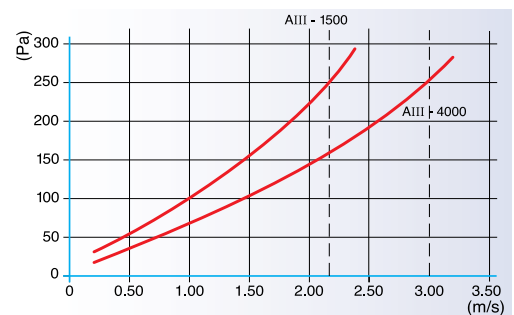
## AstroCel II and TM

AstroCel II and TM, unique filters designed for use in cleanrooms and cleanbenches. They feature a mini pleated glass fibre media pack and thermoplastic separators in an aluminium housing. AstroCel II is available in Knife-edge, Dry and Fluid Seal executions.



## AstroCel III

AstroCel III 4000 is a durable, high efficiency filter for use in a wide range of industrial and HVAC applications. The mini-pleat media packs are arranged in a V-shape and housed in a sturdy, galvanized steel frame. Also available in a high temperature nuclear version.

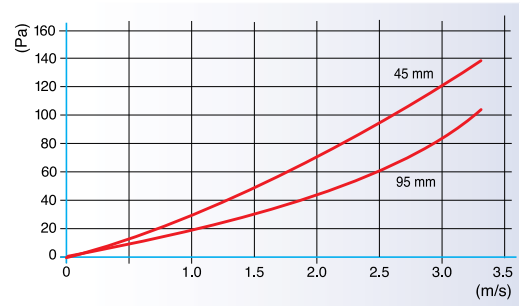


Type	BioCel / AstroCel VXL				Bio Pak / AstroPak		AstroCel II and TM			AstroCel III
	BioCel		AstroCel VXL		BioPak	AstroPak				4000
Depth (mm)	292	292	292	292	78/150/292	78/150/292	69/93/117	69/93/117	69/93/117	292
EN 1822Class	H10	H11	H12	H13	H11	H13	H14	U15	U16	H12/H13/H14
Max. Temperature (°C)	70	70	70	70	70	70	70	70	70	70
Initial resistance (Pa)	190	180	295	260	120/125/160	120/125/160	125/95/70	145/110/90	170/140/110	250
Final resistance (Pa)	600	600	600	600	600	600	500	500	500	750
Air capacity (m³/h) / Rated face velocity (m/s)	4250	3400	3400	2500	0.75/1.25/1.50	0.75/1.25/1.50	0.45	0.45	0.45	3.0
Leaflet no.	365	365	365	365	541	536	702	703	742	124/129/139

# Gas Phase Filters

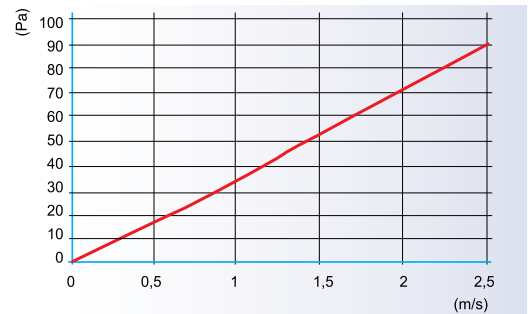
## AmerSorb

Pleated Panel Filter with SAAFCarb impregnated high loft synthetic media in a moisture resistant beverage board frame. The ideal solution to IAQ problems for facilities seeking relief from irritating odors like cigarette smoke, food smells, ozone, and VOC's. Available in standard and non standard sizes in 45 mm and 95 mm depth.



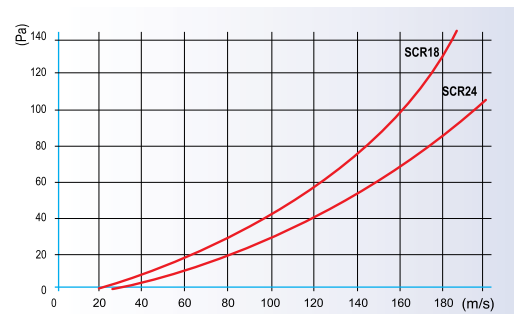
## VariSorb VXL SAAFCity

Pleated Compact Filter for high quality IAQ requirements. Minigranulate SAAFCarb media is embedded between two layers of synthetic media, pleated and bonded into polystyrene cell sides. The air entry side has a layer of F7 meltblown media, providing integral prefiltration.



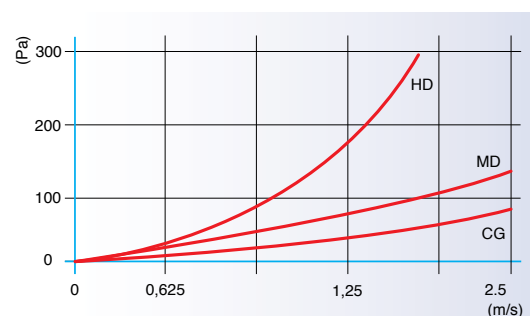
## SAAF Canister

Canister delivery system in galvanized, stainless or plastic versions, filled with loose granular or extruded SAAFCarb or other SAAFMEDIA. Factory-ready for installation. Used as fresh air or recirculation filter for the removal of VOC's or specific gas contaminants.



## SAAF Cassette

Cassette delivery system in polystyrene, filled with a choice of loose granular or extruded SAAFMEDIA. Factory-finished ready for installation. For commercial and industrial applications like libraries, pulp and paper, chemical and petrochemical. (waste) and waste water treatment.



## SAAF Media

A wide range of gas-specific or custom blended media for physisorption and chemisorption of unwanted gaseous contaminants. Manufactured as spherical pellets, granulate or extrusions, media include high quality virgin activated carbon products, impregnated and catalytic carbons and media based on potassium permanganate on aluminium oxide substrate.

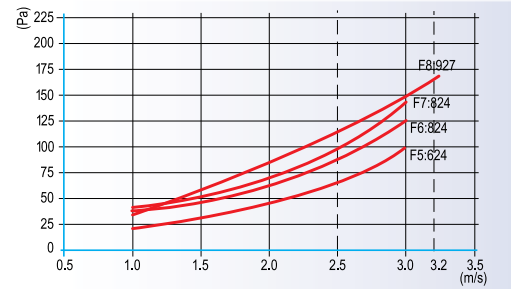


- SAAFOxidant
- SAAFCarb MB
- SAAFBLENDS
- SAAFCarb MC
- SAAFCarb
- SAAFCarb MM
- SAAFCarb MA
- SAAFCarb MS
- SAAFCarb MA-HT
- SAAFCarb TEDA

# Pocket Filters

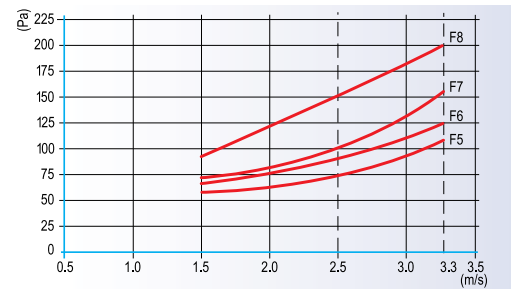
## DriPak 2000 S

DriPak 2000 S synthetic media filters are mechanically strong and suited for difficult operating conditions. They display excellent abrasional resistance and are suited for high moisture applications. A wide range is available, including a fully incinerable version. Also available with biostatic treated media (Ultra).



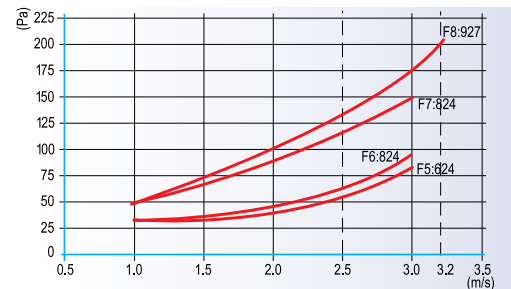
## DriPak 2000 I

DriPak 2000 Industrial filter consists of three layers of media. Through this the filter is ideal for use in heavy duty applications requiring a high efficiency and high dust holding capacity.



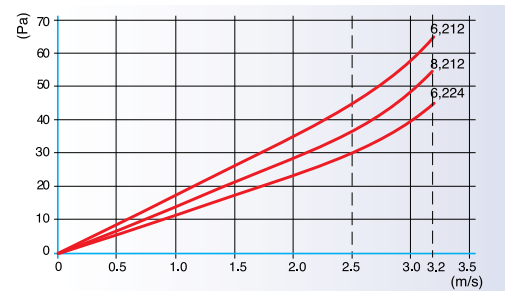
## DriPak GF

DriPak glass fibre filters have an excellent dust holding capacity and long service life. A wide selection is available in virtually every feasible execution to meet a broad range of installation specifications and applications. Also available in a fully incinerable version.



## DriPak 25

DriPak 25 is a synthetic pocket filter which can be used as a prefilter or as a final filter. Due to its high dust holding capacity and robust pocket design it is particularly suited for difficult operating conditions, including variable air volume, turbulent airflow and repeated fan shutdown.



Type	DriPak 2000 S				DriPak 2000 I				DriPak GF			DriPak 25	
	6 x 24"	8 x 24"	8 x 24"	9 x 27"	6 x 24"	8 x 24"	8 x 24"	8 x 24"	8 x 24"	8 x 24"	9 x 27"	6 x 12"/24"	8 x 24"
Depth (mm)	610	610	610	700	610	610	610	610	610	610	700	305/610	610
EN 779 Class	F5	F6	F7	F8	F5	F6	F7	F8	F6	F7	F8	G4	G4
Max. Temperature (°C)	70	70	70	70	70	70	70	70	70	70	70	70	70
Initial resistance (Pa)	55	65	80	160	75	85	100	155	60	115	195	65/45	55
Final resistance (Pa)	450	450	450	450	450	450	450	450	450	450	450	250	450
Rated face velocity (m/s)	2.5	2.5	2.5	3.2	2.5	2.5	2.5	2.5	2.5	2.5	3.2	3.2	3.2
Leaflet no.	542	542	542	542	544	544	544	544	543	543	543	545	545