



Your partner for clean air

Particulate and molecular
air filters to create clean air
solutions for people, processes
and the environment



Product quick reference guide



AAF
quality
statement

Gert Kuipers
Team Leader,
AAF International

To assure that the performance of our air filters is delivered as promised, we have built in quality into our manufacturing process. This approach brings our product designs to life with care, precision and superior characteristics.

AAF, your partner for clean air

Air quality is a key factor in the comfort and health of the building occupant, optimizing production processes and reducing the environmental impact. For a good air quality, selecting the right air filter is indispensable. AAF offers a comprehensive range and is therewith your partner for clean air. Our solutions are designed, manufactured and tested according to the latest standards and strict requirements.

Four value areas for innovation

For the innovation and development of air filters AAF has defined four pillars: consistent air quality, improved process performance, environmental savings and beneficial Total Cost of Ownership. Based on these value areas we continuously optimize the performance of our air filters.



Consistent air quality

The air filters of AAF contribute to a high and reliable indoor air quality for the protection of health, increase of comfort and optimization of critical processes. The high efficiency during the lifetime is tested and proven according to applicable international standards.



Improved process performance

Our air filtration solutions contribute to a reduced operational risk, optimized productivity and increased output quality of sensitive processes. The robust configuration provides stability through which the need for premature filter replacement is reduced and unscheduled production downtime is limited.



Environmental savings

The air filters of AAF offer a low pressure drop and a high durability. As a result, the energy consumption is reduced and the lifetime extended. This means less CO₂ emission, lower energy costs, fewer replacements and thus considerably less waste. Also during the production of air filters negative environmental impact is minimized.



Beneficial Total Cost of Ownership (TCO)

With our air filters you benefit from high efficiency, stable operation and low pressure drop. The outcome is a beneficial TCO and Return On Investment. On the one hand this is due to direct cost savings during the life cycle, on the other hand the risk of indirect costs from underperforming filtration is reduced.

AAF, your partner

- ✓ Extensive expertise and dedicated technical support
- ✓ Always the most suitable solution based on the full, versatile range of air filter products and services
- ✓ Innovative designs through continuous focus on research and development
- ✓ Logistics: the right answer at the right time and the right place
- ✓ Optimum filtration performance, guaranteed with Eurovent certification
- ✓ Europe-wide distribution network with local presence

Eurovent certification of AAF

Eurovent is the official European association that certifies the performance of air filters rated and sold as Medium and Fine filter classes M5 up to F9.

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

More information about Eurovent certification and an overview with certified air filters of AAF: www.eurovent-certification.com



AAF air filter portfolio at a glance

	Media options				
	Fibreglass	Synthetic	Metal	NELIOR® membrane	Activated carbon
Pads and Rolls ●					
AmerGlas®	✓				
Roll-O-Mat®	✓				
AmerTex		✓			
AmerKleen	✓				
AmerGlas® PaintStop	✓				
Panel Filters ● ●					
AmerGlas®	✓				
HV2000			✓		
MetaNet			✓		
Chevronet		✓			
PerfectPleat®		✓			
AmAir®	✓	✓			
CG Series	✓				
Pocket Filters ● ● ●					
DriPak®	✓	✓			
Compact Filters ● ● ● ●					
VariCel®	✓				
VariPak	✓				
DuraVee®	✓				
DuraCel®	✓				
EPA/HEPA/ULPA Filters ● ● ● ● ●					
DuraVee®	✓				
BioCel®	✓				
BioPak®	✓				
AstroCel®	✓				
AstroPak®	✓				
MEGAcel®				✓	
VITCAcel®				✓	
High Temperature Filters ● ● ● ● ● ●					
AmAir®	✓				
VariCel®	✓				
BioCel®	✓				
AstroCel®	✓				
Gas-Phase Filters ○					
VariSorb®		✓			✓
AmAir®		✓			✓
SAAF™ Canister					✓
SAAF™ Cassette					✓
SAAF™ Media					✓

✓ Available options

✗ Not applicable

Filter standard	EN779:2012									EN1822:2009								
Filter group	Coarse				Medium		Fine			EPA			HEPA		ULPA			
Filter class	G1	G2	G3	G4	M5	M6	F7	F8	F9	E10	E11	E12	H13	H14	U15	U16	U17	
Pads and Rolls ●																		
AmerGlas®		✓																
Roll-O-Mat®		✓	✓															
AmerTex		✓	✓	✓	✓													
AmerKleen	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
AmerGlas® PaintStop	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
Panel Filters ● ●																		
AmerGlas®		✓	✓															
HV2000		✓	✓															
MetaNet		✓	✓															
Chevronet				✓														
PerfectPleat®				✓														
AmAir®				✓	✓													
CG Series				✓	✓													
Pocket Filters ● ● ●																		
DriPak®				✓	✓	✓	✓	✓	✓									
Compact Filters ● ● ● ●																		
VariCel®						✓	✓	✓	✓									
VariPak						✓	✓	✓	✓									
DuraVee®						✓	✓	✓	✓									
DuraCel®	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
EPA/HEPA/ULPA Filters ● ● ● ● ●																		
DuraVee®										✓		✓						
BioCel®										✓	✓							
BioPak®											✓							
AstroCel®												✓	✓	✓	✓	✓	✓	
AstroPak®													✓	✓				
MEGAcel®													✓	✓	✓	✓		
VITCAcel®														✓	✓	✓		
High Temperature Filters ● ● ● ● ● ●																		
AmAir®				✓														
VariCel®						✓	✓	✓										
BioCel®										✓								
AstroCel®												✓						
Gas-Phase Filters ○																		
VariSorb®					✓													
AmAir®	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
SAAF™ Canister	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
SAAF™ Cassette	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	
SAAF™ Media	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	

The names of the AAF air filter products listed above represent product families. A product family may consist of various filter types, each having its own design and filter class(es). For more product details, please consult the remainder of this brochure or contact your local AAF affiliate office.

Pads and Rolls

AmerGlas® M57

Easy to install filter media made of fibreglass with a progressive density, available as pad or roll

Recommended application:

Pre-filtration in central air handling, air conditioning en ventilation systems

Configuration and performance:

- Filter class EN779/EN1822: G2
- Media: fibreglass
- Optional: treatment with Viscosine
- Temperature limit: 80 (treated) - 120 °C (untreated)



Roll-O-Mat®

Roll filter media on core with high tensile strength for optimal performance throughout the lifetime

Recommended application:

For use in AAF's Roll-O-Matic® automatic roll filter system as pre-filtration under demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: G2 - G3
- Media: fibreglass
- Provided with: treatment with Viscosine
- Temperature limit: 80 °C



AmerTex

Efficient filter media with an optimized blend of synthetic fibres, available as pad or roll

Recommended application:

Filtration for protection of air ducts and fans in paint spray booths or for central air handling systems

Configuration and performance:

- Filter class EN779/EN1822: G2 - M5
- Media: synthetic
- Available as: F- and R-series
- Temperature limit: 100 °C



AmerKleen M80

Filter media made of fibreglass with a progressive density for increased dust holding capacity, available as pad or roll

Recommended application:

Intake filtration for turbines, engines and compressors

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: fibreglass
- Optional: dry version without Viscosine treatment
- Temperature limit: 100 °C



AmerGlas® PaintStop

Filter media of fibreglass in an optimized structure for long life, ensures reduced emissions and is available as pad or roll

Recommended application:

Filtration for protection of air ducts, fans and engines in paint shops

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: fibreglass
- Available as: Orange and Green
- Temperature limit: 80 (Orange) - 120 °C (Green)



Panel Filters

AmerGlas®

Lightweight panel filter made of fibreglass in an intricate structure for optimized dust holding capacity

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems for regular and demanding use

Configuration and performance:

- Filter class EN779/EN1822: G2 - G3
- Media: fibreglass
- Optional: treatment with Viscosine
- Available as: Standard and 5700
- Temperature limit: 75 °C



HV2000

Permanent washable metal filter with media of knitted wire in a metal frame for reliable operation

Recommended application:

Pre- or final filtration in demanding air handling, air conditioning and ventilation systems for collecting grease and oil mist

Configuration and performance:

- Filter class EN779/EN1822: G2 - G3
- Media: knitted steel wire
- Optional: treatment with Viscosine
- Filter frame: galvanized or stainless steel
- Temperature limit: 65 (treated) - 200 °C (untreated)



MetaNet

Permanent washable metal filter with media of multiple layered knitted steel wire and a high dust holding capacity

Recommended application:

Pre- or final filtration in demanding air handling, air conditioning and ventilation systems for collecting grease and oil mist

Configuration and performance:

- Filter class EN779/EN1822: G2 - G3
- Media: galvanized steel wire
- Optional: treatment with Viscosine
- Filter frame: galvanized steel
- Temperature limit: 65 (treated) - 500 °C (untreated)



Chevronet

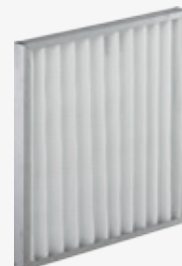
Lightweight panel filter made of synthetic media in an optimized composition for uniform filtration performance

Recommended application:

Pre- or final filtration in central air handling, air conditioning and ventilation systems

Configuration and performance:

- Filter class EN779/EN1822: G4
- Media: synthetic
- Filter frame: galvanized steel
- Temperature limit: 100 °C



PerfectPleat®

Panel filter with a self-supporting media pack, consistent pleat spacing and excellent stiffness and durability

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems under humid and turbulent conditions

Configuration and performance:

- Filter class EN779/EN1822: G4
- Media: synthetic
- Filter frame: beverage cardboard
- Available as: High Capacity and Ultra (bacteriostatic treatment)
- Temperature limit: 75 °C



Panel Filters

AmAir® 300

Panel filter with folded media pack made from synthetic material with supporting mesh grille for increased stability

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems under high relative humidity

Configuration and performance:

- Filter class EN779/EN1822: G4
- Media: synthetic
- Filter frame: beverage cardboard
- Also available: execution for turbine applications
- Temperature limit: 75 °C



AmAir® 500

Panel filter with folded media pack made of fibreglass with supporting mesh grille for increased stability

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems

Configuration and performance:

- Filter class EN779/EN1822: M5
- Media: fibreglass
- Filter frame: die-cut cardboard or metal
- Temperature limit: 75 °C



CG Series

Lightweight metal panel filter with uniform fibreglass filter media in a robust construction

Recommended application:

Filtration for protection of air ducts in paint spray booths and drying installations in industrial production processes

Configuration and performance:

- Filter class EN779/EN1822: G4 - M5
- Media: fibreglass
- Optional: glass rope gasket
- Filter frame: metal
- Also available: execution for high temperatures
- Temperature limit: 90 - 300 °C



Pocket Filters

DriPak® SX

Pocket filter made from synthetic material in a new tapered design with reduced pressure drop and reliable filtration performance

Recommended application:

Pre- or final filtration in central air handling, air conditioning and ventilation systems

Configuration and performance:

- Filter class EN779/EN1822: M5 - F7
- Media: synthetic
- Optional: bacteriostatic treatment
- Filter frame: injection moulded polyurethane, galvanized steel or beechwood
- Optional: dry seal gasket
- Temperature limit: 70 °C



NEW

DriPak® GX

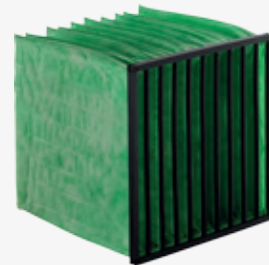
Pocket filter made of fibreglass in a tapered design for very low pressure drop and high filtration efficiency

Recommended application:

Pre- or final filtration in central air handling, air conditioning and ventilation systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: M5 - F7, F9
- Media: fibreglass
- Filter frame: polystyrene plastic or galvanized steel
- Optional: dry seal gasket
- Temperature limit: 70 °C



NEW

DriPak® NX

Highly efficient synthetic pocket filter in a new tapered AAF design, with extremely low pressure drop and long service life

Recommended application:

Pre- or final filtration in central air handling, air conditioning and ventilation systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: F7, F9
- Media: highly efficient synthetic
- Filter frame: injection moulded polyurethane, galvanized steel or beechwood
- Optional: dry seal gasket
- Temperature limit: 70 °C



DriPak® Base SF

Pocket filter made from synthetic material in standard design for good filtration performance according to applicable standards

Recommended application:

Pre- or final filtration in central air handling, air conditioning and ventilation systems

Configuration and performance:

- Filter class EN779/EN1822: G4 - F7
- Media: synthetic
- Optional: bacteriostatic treatment
- Filter frame: metal or plastic
- Optional: dry seal gasket
- Temperature limit: 70 °C



DriPak® Base GF

Pocket filter made from fibreglass in standard design with reliable filtration performance at reduced energy consumption

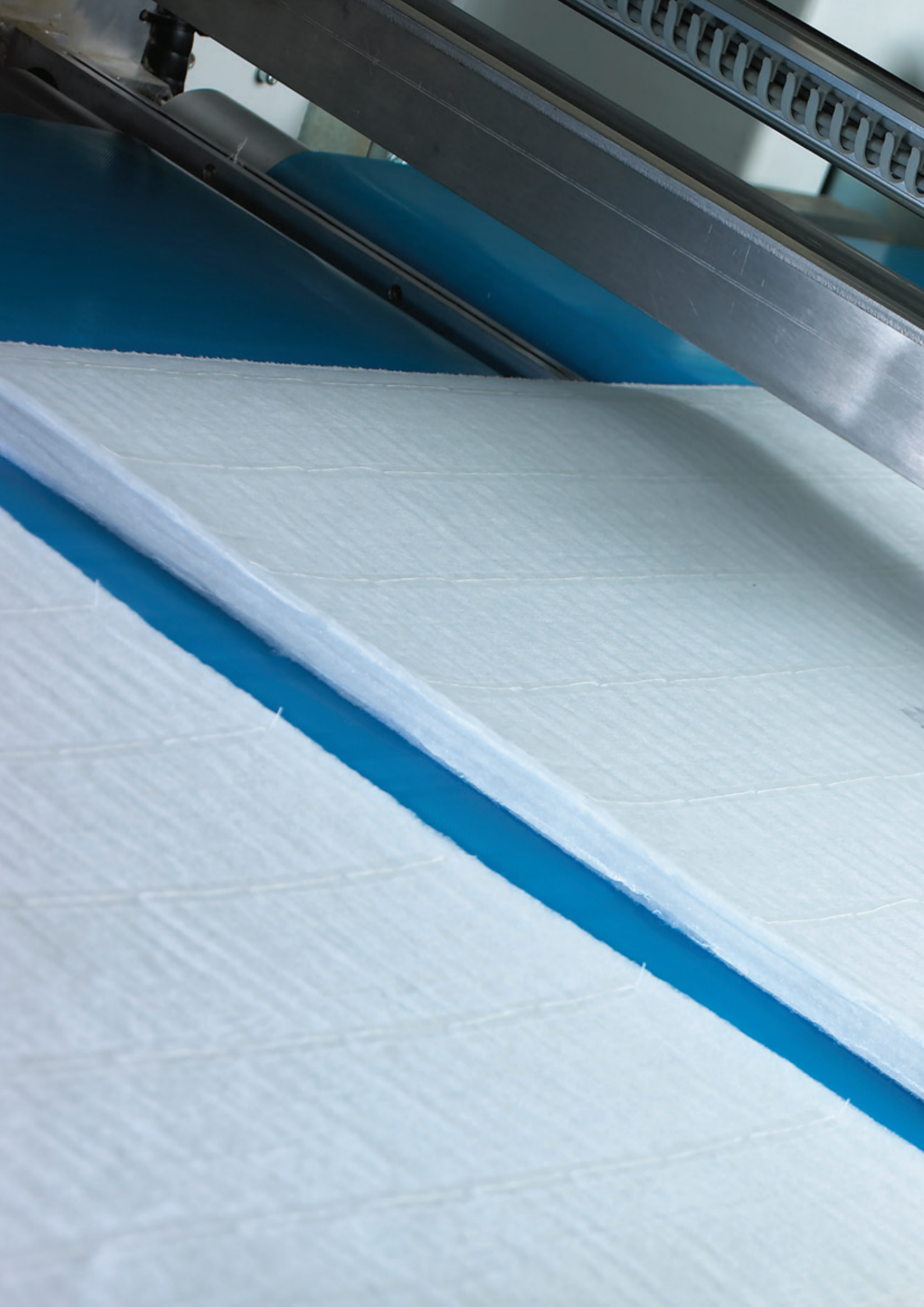
Recommended application:

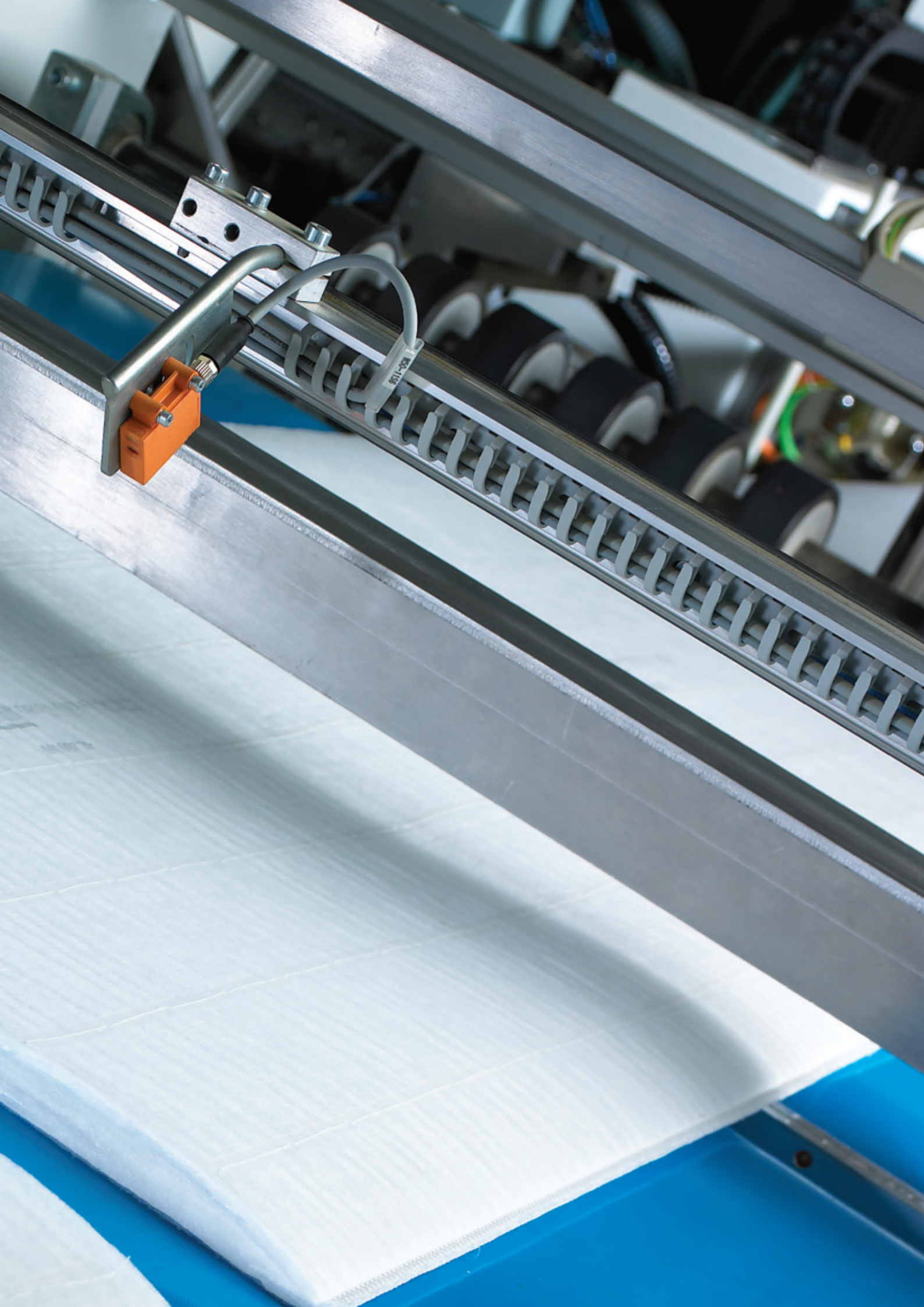
Pre- or final filtration in central air handling, air conditioning and ventilation systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: M5 - F9
- Media: fibreglass
- Filter frame: metal or plastic
- Optional: dry seal gasket
- Temperature limit: 70 °C







Compact Filters

VariCel®

Highly efficient compact filter with a deep-pleat media pack, supported by aluminium separators in a robust construction

Recommended application:

Pre- or final filtration in central air handling systems and industrial installations under demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: M6 - F8
- Media: fibreglass
- Filter frame: galvanized steel and extruded aluminium
- Optional: dry seal gasket
- Temperature limit: 70 (with gasket) - 150 °C (without gasket)



VariCel® II

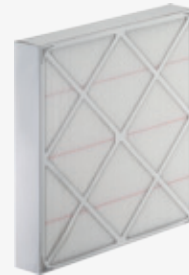
Mini-pleat filter with lightweight frame and low pressure drop for easy installation and reduced energy consumption

Recommended application:

Pre- or final filtration in central air handling systems under turbulent conditions

Configuration and performance:

- Filter class EN779/EN1822: M6 - F8
- Media: fibreglass
- Optional: bacteriostatic treatment
- Filter frame: MDF or beverage cardboard
- Optional: dry seal gasket
- Temperature limit: 70 °C



VariCel® EcoPak

Very compact filter with uniform media pack for high filtration efficiency of fine dust in lightweight and fully combustible frame

Recommended application:

Pre- or final filtration in central air handling systems and industrial installations with limited space

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Optional: bacteriostatic treatment
- Filter frame: HIPS
- Optional: dry seal gasket
- Temperature limit: 70 °C



VariCel® M-Pak

Lightweight and space-saving compact filter with extended filtration surface in non-corrosive and fully combustible frame

Recommended application:

Pre-filtration in central air handling systems and industrial installations under turbulent conditions

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Optional: bacteriostatic treatment
- Filter frame: HIPS
- Optional: dry seal gasket
- Temperature limit: 70 °C



VariPak

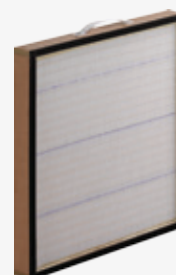
Mini-pleat filter with ultrafine fibreglass media pack, low pressure drop and available with various configuration options

Recommended application:

Pre- or final filtration in central air handling systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Filter frame: anodized extruded aluminium or MDF
- Optional: dry seal or gel seal gasket
- Temperature limit: 70 °C



NEW

VariCel® VXLE

Air filter with high capacity in a robust V-shaped configuration with a lightweight and fully combustible plastic construction

Recommended application:

Designed to provide excellent performance combined with high energy savings, in either industrial or commercial HVAC installations

Configuration and performance:

- Filter class EN779/EN1822: F7 - F9
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: Polyurethane foamed endless
- Temperature limit: 70 °C

**VariCel® VXL**

Air filter with high capacity in a robust V-shaped configuration with a lightweight and fully combustible plastic construction

Recommended application:

Pre- or final filtration in central air handling systems and demanding industrial installations, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: dry seal gasket / reverse airflow
- Temperature limit: 70 °C

**DuraVee® XL**

High-efficiency air filter in a robust V-shaped configuration with extended filter surface in fully combustible frame construction

Recommended application:

Intake filtration for turbines and engines under demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: dry seal gasket / reverse airflow
- Temperature limit: 70 °C

**DuraVee® HXL**

High-efficiency air filter in an enlarged V-shaped configuration for lower pressure drop, very high dust holding capacity and extended lifetime

Recommended application:

Intake filtration for turbines and engines under very demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: M6 - F9
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: dry seal gasket
- Temperature limit: 70 °C

**DuraCel®**

Robust compact filter with a deep-pleat media pack supported by aluminium separators, available in various executions

Recommended application:

Intake filtration for turbines under very demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: fibreglass
- Filter frame: metal
- Optional: dry seal gasket
- Available as: RM, XL, XN and XW
- Temperature limit: 80 (with gasket) - 150 °C (without gasket)





EPA/HEPA/ULPA Filters

DuraVee® XL

High-efficiency air filter in a V-shaped configuration for extended filter surface in fully combustible frame construction

Recommended application:

Intake filtration for turbines and engines under demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: E10, E12
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: dry seal gasket / reverse airflow
- Temperature limit: 70 °C



DuraVee® HXL

High-efficiency air filter in an enlarged V-shaped configuration for very high dust holding capacity and extended lifetime

Recommended application:

Intake filtration for turbines and engines under very demanding conditions

Configuration and performance:

- Filter class EN779/EN1822: E10, E12
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Optional: dry seal gasket
- Temperature limit: 70 °C



BioCel®

Highly efficient filter with a deep-pleat media pack, supported by aluminium separators in a robust construction

Recommended application:

Final filtration in central air handling systems and industrial installations under turbulent conditions, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E10
- Media: fibreglass
- Filter frame: galvanized steel and extruded aluminium
- Gasket: dry seal
- Temperature limit: 70 (with gasket) - 120 °C (without gasket)



BioCel® II

Mini-pleat filter with lightweight frame and low pressure drop for easy installation and reduced energy consumption

Recommended application:

Final filtration in central air handling systems and industrial installations under turbulent conditions, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E11
- Media: fibreglass
- Filter frame: anodized extruded aluminium
- Gasket: dry seal, gel seal or knife edge
- Temperature limit: 70 °C



BioCel® III

Highly efficient filter in a V-shaped configuration with optimized media packs of fibreglass, suitable for high airflow rates

Recommended application:

Pre- or final filtration in high airflow air handling systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E11
- Media: fibreglass
- Filter frame: galvanized steel
- Gasket: dry seal
- Temperature limit: 70 °C



BioCel® M-Pak

Lightweight and space-saving filter with extended filtration surface in non-corrosive and fully combustible frame

Recommended application:

Pre- or final filtration in central air handling systems and industrial installations under turbulent conditions, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E10
- Media: fibreglass
- Filter frame: HIPS
- Gasket: dry seal
- Temperature limit: 70 °C

**BioCel® VXL**

Air filter with high capacity in a robust V-shaped configuration and a lightweight and fully combustible plastic construction

Recommended application:

Pre- or final filtration in central air handling systems and demanding industrial installations, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E10 - E11
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Gasket: dry seal
- Temperature limit: 70 °C

**BioPak®**

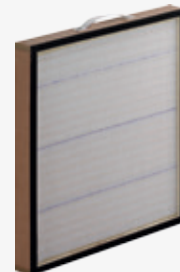
Mini-pleat filter with ultrafine fibreglass media pack and low pressure drop, available in different frame executions

Recommended application:

Pre- or final filtration in central air handling systems, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E11
- Media: fibreglass
- Filter frame: anodized extruded aluminium or MDF
- Gasket: dry seal
- Temperature limit: 70 °C

**AstroCel® I**

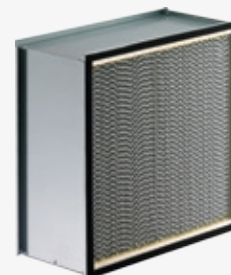
Efficient HEPA filter with high capacity and deep-pleat media pack, supported by aluminium separators

Recommended application:

Final filtration in central air handling systems and industrial installations

Configuration and performance:

- Filter class EN779/EN1822: E12 - H14
- Media: fibreglass
- Filter frame: anodized extruded aluminium, steel or MDF
- Gasket: dry seal
- Temperature limit: 70 (std. gasket) - 120 (without gasket) - 260 °C (silicone gasket)

**AstroCel® II**

High quality and space-saving mini-pleat filter, individually tested for guaranteed filtration performance

Recommended application:

Final filtration for cleanrooms and turbulent or laminar airflow systems

Configuration and performance:

- Filter class EN779/EN1822: H14 - U17
- Media: fibreglass
- Filter frame: anodized extruded aluminium
- Also available: TM Hood (terminal module)
- Gasket: dry seal, gel seal or knife edge
- Temperature limit: 70 °C



AstroCel® III

Highly efficient filter in a V-shaped configuration with optimized media packs of fibreglass, suitable for high airflow rates

Recommended application:

Final filtration in central air handling systems and industrial installations, areas in which hazardous materials are being handled

Configuration and performance:

- Filter class EN779/EN1822: E12 - H14
- Media: fibreglass
- Filter frame: steel
- Gasket: dry seal or gel seal
- Temperature limit: 70 (regular version) - 120 °C (nuclear grade)

**AstroCel® VXL**

Air filter with high capacity in a robust V-shaped configuration with a lightweight and fully combustible plastic construction

Recommended application:

Final filtration in central air handling systems and industrial installations, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: E12 - H13
- Media: fibreglass
- Filter frame: combination of HIPS and ABS
- Gasket: dry seal
- Temperature limit: 70 °C

**AstroPak®**

Mini-pleat filter with ultrafine fibreglass media pack and low pressure drop, available in different frame executions

Recommended application:

Final filtration in central air handling systems and industrial installations, pre-filtration for cleanrooms

Configuration and performance:

- Filter class EN779/EN1822: H13 - H14
- Media: fibreglass
- Filter frame: anodized extruded aluminium or MDF
- Gasket: dry seal or gel seal
- Temperature limit: 70 °C

**MEGAcel® I**

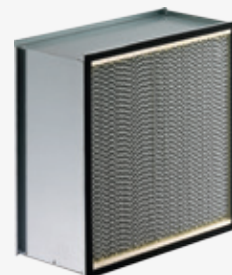
High-efficiency HEPA filter with a deep-pleat media pack, supported by aluminium separators, and a very low pressure drop

Recommended application:

Final filtration in industrial installations and cleanroom environments

Configuration and performance:

- Filter class EN779/EN1822: H13 - H14
- Media: NELIOR membrane
- Frame: galvanized or stainless steel
- Gasket: dry seal
- Temperature limit: 70 °C

**MEGAcel® II**

High quality and durable mini-pleat filter with a high efficiency and a very low pressure drop characteristic

Recommended application:

Final filtration for cleanrooms with turbulent or laminar airflow systems

Configuration and performance:

- Filter class EN779/EN1822: H14 - U16
- Media: NELIOR membrane
- Filter frame: anodized extruded aluminium
- Also available: TM Hood (terminal module)
- Gasket: dry seal, gel seal or knife edge
- Temperature limit: 70 °C



MEGAcel®

Energy efficient mini-pleat filter with a sturdy aluminium frame, boron-free media pack and outgassing-free separator

Recommended application:

Final filtration for sensitive microelectronic cleanrooms and laminar airflow systems

Configuration and performance:

- Filter class EN779/EN1822: U16
- Media: NELIOR membrane
- Filter frame: anodized extruded aluminium
- Also available: TM Hood (terminal module)
- Gasket: dry seal, gel seal or knife edge
- Temperature limit: 70 °C



VITCAcel®

Individually tested mini-pleat filter with a very low pressure drop and a risk-reducing superior mechanical strength

Recommended application:

Final filtration for sterile pharmaceutical cleanrooms and laminar airflow systems

Configuration and performance:

- Filter class EN779/EN1822: H14 - U16
- Media: NELIOR membrane
- Filter frame: anodized extruded aluminium
- Also available: TM Hood (terminal module)
- Gasket: dry seal, gel seal or knife edge
- Temperature limit: 70 °C



MEGAcel® III

Highly efficient filter in a V-shaped configuration for handling high airflow rates at an extremely low pressure drop

Recommended application:

Final filtration in central air handling systems and industrial installations, areas in which hazardous materials are being handled

Configuration and performance:

- Filter class EN779/EN1822: H13 - H14
- Media: NELIOR membrane
- Filter frame: galvanized steel or ABS
- Gasket: dry seal
- Temperature limit: 70 °C



High Temperature Filters

AmAir® HT

Silicone-free high temperature panel filter with folded fibreglass media pack, laminated with a mesh grille for enhanced stability

Recommended application:

Final filtration of high temperature processes in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: G4
- Media: fibreglass
- Filter frame: aluminium
- Temperature limit: 260 °C



VariCel® HT

Silicone-free high efficiency compact filter with a deep-pleat media pack in a frame construction of aluminized steel

Recommended application:

Pre- or final filtration for drying ovens in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: M6 - F8
- Media: fibreglass
- Filter frame: aluminized steel and extruded aluminium
- Optional: glass rope gasket
- Temperature limit: 385 °C (480 °C 1h peak)



VariCel® II HT

Silicone-free mini-pleat filter with fibreglass media in a robust aluminium frame and faceguards on both sides

Recommended application:

Final filtration for drying ovens in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: M6, F8
- Media: fibreglass
- Filter frame: anodized extruded aluminium
- Gasket: glass rope
- Temperature limit: 385 °C (480 °C 1h peak)



VariCel® V HT

Silicone-free air filter in a V-shaped configuration with a sturdy construction of aluminized steel for high integrity

Recommended application:

Final filtration for recirculation systems of drying ovens under turbulent conditions in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: M6 - F7
- Media: fibreglass
- Filter frame: aluminized steel and extruded aluminium
- Gasket: glass rope
- Temperature limit: 385 °C (480 °C 1h peak)



VariCel® XL HT

Silicone-free high temperature compact filter with a deep-pleat media pack in an aluminized steel frame construction and low pressure drop

Recommended application:

Final filtration for drying ovens in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: M6 - F8
- Media: fibreglass
- Filter frame: aluminized steel and extruded aluminium
- Optional: glass rope gasket
- Temperature limit: 385 °C (480 °C 1h peak)



NEW

BioCel® HT

Highly efficient compact filter with a deep-pleat media pack in a silicone-free aluminized steel frame construction

Recommended application:

Final filtration for drying ovens in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: E10
- Media: fibreglass
- Filter frame: aluminized steel and extruded aluminium
- Gasket: glass rope
- Temperature limit: 260 °C (480 °C 1h peak)

**BioCel® V HT**

Silicone-free air filter in a V-shaped configuration with a sturdy construction of aluminized steel for high integrity

Recommended application:

Final filtration for recirculation systems of drying ovens under turbulent conditions in the automotive industry

Configuration and performance:

- Filter class EN779/EN1822: E10
- Media: fibreglass
- Filter frame: aluminized steel and extruded aluminium
- Gasket: glass rope
- Temperature limit: 385 °C (480 °C 1h peak)

**AstroCel® I HTD**

Silicone-free high temperature filter with a frame of hot dipped aluminized steel and heat resistant aluminium separators

Recommended application:

Final filtration for critical industrial production areas under high temperature and dynamic conditions

Configuration and performance:

- Filter class EN779/EN1822: E12
- Media: fibreglass
- Filter frame: hot dipped aluminized steel
- Gasket: glass rope
- Temperature limit: 250 °C (500 °C 1h peak)

**AstroCel® I HTP**

Silicone-free HEPA filter with superior durability, highly reliable operation and performance in compliance with FDA / GMP guidelines

Recommended application:

Filtration under high-temperature for dry heat sterilization and the removal of pyrogens in the pharmaceutical industry

Configuration and performance:

- Efficiency: ≥ 99,99% at 0,3 µm, ≥ 99,95% at MPPS
- Media: fibreglass
- Filter frame: stainless steel
- Gasket: fibreglass
- Temperature limit: 350 °C (400 °C 1h peak)



For guaranteeing an efficient installation and effective operation of air filters, AAF offers a broad range of (cleanroom) components, housings and supporting services. For detailed specifications of all AAF products and a custom made solution that fits your specific requirements, please contact your local AAF affiliate office.

The presented energy efficiency classes in this brochure are based on Eurovent Guideline 4/21 2014 and RS 4/C/001-2016 and may differ per filter class.

Gas-Phase Filters

VariSorb® XL / VariSorb® XL SAAFCity

Fully incinerable combination filter for particulate and molecular filtration with a wide range of chemical media options

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems for removal of gaseous contaminants

Configuration and performance:

- Filter class EN779/EN1822: M5 (SAAFCity)
- Media: synthetic with activated carbon
- Filter frame: combination of HIPS and ABS
- Relative humidity: 10 - 95 %
- Temperature limit: 55 °C



AmAir® / CF

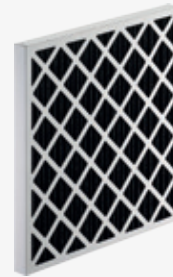
Lightweight panel filter with a self-supporting media pack consisting of a combination of synthetic media and activated carbon

Recommended application:

Pre-filtration in central air handling, air conditioning and ventilation systems for removal of gaseous contaminants

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: synthetic with activated carbon
- Filter frame: die-cut cardboard
- Relative humidity: 10 - 70 %
- Temperature limit: 40 °C



SAAF™ Canister

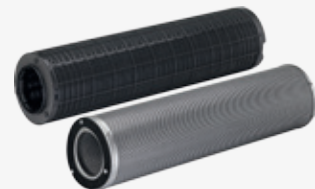
Molecular filtration system consisting of cylindrical cartridges with a choice of various chemical media, mounted in a galvanized frame

Recommended application:

Pre-filtration in central air handling and ventilation systems for removal of gaseous contaminants

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: activated carbon, activated alumina, blends
- Cartridge: HIPS, galvanized or stainless steel
- Frame: galvanized sheet metal
- Relative humidity: 10 - 95 %
- Temperature limit: 55 °C



SAAF™ Cassette

Patented gas-phase filtration system with multiple cassettes in a V-shaped construction, pre-filled with chemical media

Recommended application:

Pre-filtration in central air handling and ventilation systems for removal of gaseous contaminants

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: activated carbon, activated alumina, blends
- Cassette: HIPS, stainless or epoxy-coated steel
- Relative humidity: 10 - 95 %
- Temperature limit: 55 °C



SAAF™ Media

Highly efficient filtration for removal of unwanted gaseous pollutants with a wide choice of media options and combinations

Recommended application:

Pre-filtration in central air handling systems for removal of gaseous contaminants

Configuration and performance:

- Filter class EN779/EN1822: n/a
- Media: activated carbon
- Optional: various additives to improve specific adsorption properties
- Relative humidity: 10 - 95 %
- Temperature limit: 55 °C



Air filtration glossary

Air filter

Unit installed in an air handling system designed to remove solid or gaseous particulates from the air passing through it.

Airborne particles

Solid or liquid matter that is suspended in the air. Sizes of airborne particles vary and are expressed in micron (μm).

Airflow

Distribution of air passing through a filter element per unit of time. Airflow rate is usually expressed in m^3/h or m^3/s .

Arrestance

Removal of standard test dust expressed as weight percentage. Average value is used for classification of Coarse filters.

Coarse filter

Air filter classified in one of the classes G1 to G4 according to EN779:2012 based on removal of synthetic loading dust.

Dust Holding Capacity (DHC)

Amount of loading dust retained by the air filter in time during a laboratory test cycle. DHC is usually expressed in grams.

Efficiency

Removal of the number of particles by the air filter in relation to the upstream concentration expressed in a percentage.

Energy efficiency

Ability of the air filter to minimize electricity consumption as a function of its operating resistance and operating conditions.

Face velocity

Airflow rate divided by the effective media area of a filter element. Face velocity is usually expressed in m/s .

Filter class

Indication of the air filtration performance measured according to test procedures compliant to EN779:2012 or EN1822:2009.

Filter integrity

The degree to which the air filter demonstrates a consistent performance according to specification without leakage.

Filter qualification

Action of proving that the HEPA filter functions in line with expectations by using methods according to ISO 14644-3:2005.

Fine filter

Air filter classified in one of the classes F7 to F9 according to EN779:2012 based on minimum efficiency of $0,4 \mu\text{m}$ particles.

Gas-phase filter

Air filter designed to remove contaminants at molecular level from the air passing through it by using chemical media.

HEPA filter

High Efficiency Particulate Air filter classified in filter class H13 or H14 according to EN1822:2009 based on MPPS efficiency.

Life Cycle Valuation (LCV)

Comparative calculation of air filters demonstrating the provided environmental and financial savings during the installation period.

Mechanical strength

Indication of the elastic or inelastic behavior of air filtration media under pressure demonstrating resistance to damage.

Media

Fibrous material used to remove solid or gaseous particulates from the air passing through a filter element.

MPPS

Most Penetrating Particle Size. Represents the particle size at which penetration of particles through the filter media is highest.

NELIOR® Filtration Technology

Patented air filtration media based on fine nanometer-scale membrane fibers, exclusively developed and marketed by AAF.

Operating resistance

Difference in pressure between upstream and downstream airflow of an air filter. Also referred to as: pressure drop.

Pre-filter

Air filter installed for removal of larger particles from the passing air to protect the higher efficiency air filters in the next stage.

Terminal filter

High efficiency air filter used as final filtration stage to critical process areas that require strict contamination control.

ULPA filter

Ultra Low Penetration Air filter classified in filter classes U15 to U17 according to EN1822:2009 based on MPPS efficiency.

AAF Air Filter at a glance



Member Daikin Industries since 2006



400 European employees



13 Sales office locations



In house production



Headquarter Emmen:

1968: Headquarter AAF EMEA

1983: Opening R&D center

2013: Opening cleanroom



○ Sales office location

● Manufacturing location

◐ Sales office & manufacturing location

We offer
a complete range of products:



Pads & Rolls
G2 - M5



Panel Filters
G2 - M5



Pocket Filters
G4 - F9



Compact Filters
M6 - F9



EPA/HEPA/ULPA
Filters E10 - U17



HT Filters
G4 - F8



Gas Phase Filters
M5



Cleanroom
components

We provide
solutions for:



Interior air
Protect human health



Process air
Protect critical operations



Environment air
Protect the environment

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Finland +358 10 2290 700	Greece +30 210 663 20 15	The Netherlands +31 591 664 466
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