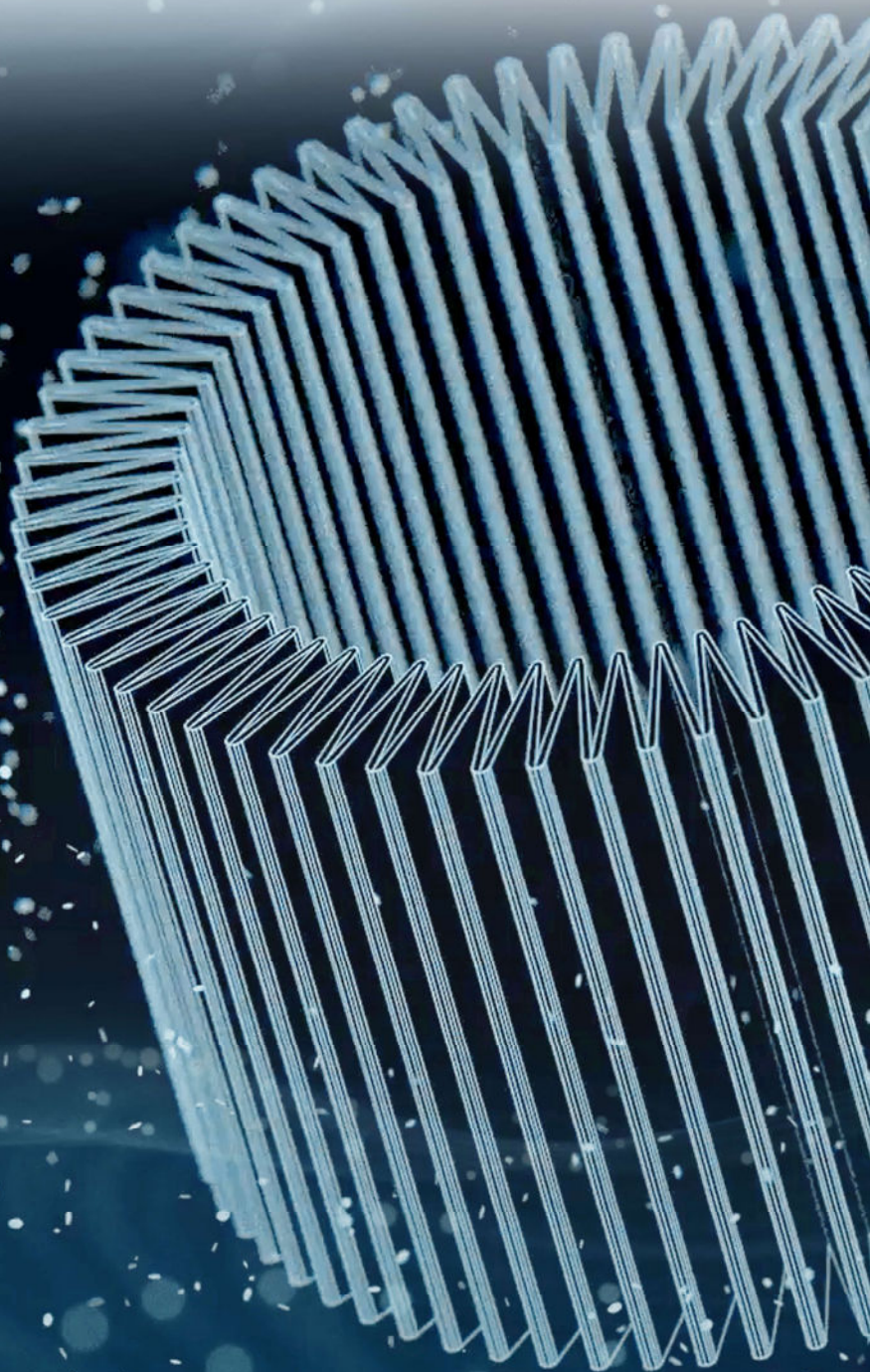




CLEANER AIR - EVERYWHERE

seit 1992



WEIL GESUNDHEIT BEIM ATMEN BEGINNT

HEPA/ULPA-FILTER

HIGH-END FILTRATION

Feinstaub	(ePM10 bis ePM1)
EPA	(E10-E12)
HEPA	(H13-H14)
ULPA	(U15-U17)

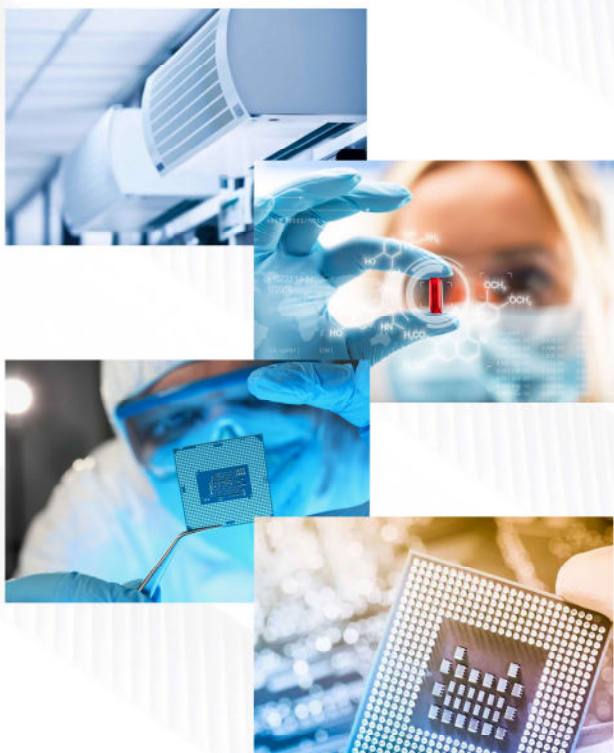
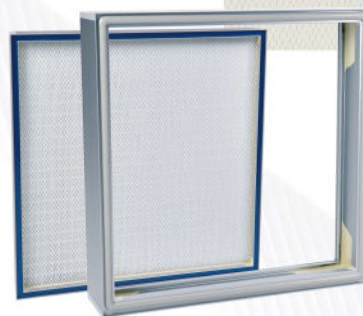

MADE IN GERMANY

Erfahrung, Kompetenz und Fertigungstiefe

- Entwicklungserfahrung auch mit internationalen Kunden, Anwendungsberatung, Tradition und Innovation
- Ressourcenschonende Verfahren, vielfältige Materialkombinationen, Plissierung, Montage, Produktprüfung und kundenspezifische Verpackung

Experience, expertise and manufacturing depth

- development experience with international customers, application expertise, tradition and innovation
- Resource-saving processes, diverse combination of materials, pleating, assembly, product testing and customized packaging



Anwendungen

- Alle Anwendungen mit höchsten Anforderungen an Luftreinheit und Hygiene: Mikroelektronik, Halbleiterfertigung, Medizin, Pharmazie, Laboratorien, u. v. a.

Beispiele: Zuluftdecken, Reinräume, Klimaanlage, etc.

Applications

- all applications with highest requirements regarding air purity and hygiene: microelectronics, semiconductor production, medicine, pharmacy, laboratory, etc.

Examples: supply air ceiling, cleanrooms, air conditioning devices, etc.



B&S Prüfstände

- Prüfstand zur Druckverlust- und Luftdurchlässigkeitsmessung nach DIN 71460-1
- Prüfstand zur Bestimmung des Partikelabscheidegrads und des Staubspeichervermögens in Anlehnung an ISO 16890 und DIN 71460
- Prüfstand zur Bestimmung der Adsorptionsleistung in Anlehnung an DIN 71460-2
- Prüfstand zur Leckageortung (Ölnebel) und Partikelscanner nach DIN EN 1822

B&S test rigs

- Test rig for pressure drop and air permeability measurement acc. to DIN 71460-1
- Test rig for particle filtration efficiency and the dust holding capacity acc. to ISO 16890 and DIN 71460
- Test rig for gas adsorption acc. to DIN 71460-2
- Test rig for tightness (oilmist) and particle scanner acc. to DIN EN 1822

EIN ANBIETER - VIELSEITIGES SORTIMENT

Partikel- und Molekularfilter mit *PuraCair* - Filtermedien

- Filter zur Abscheidung von Partikeln, sauren oder basischen Gasen und VOCs.
- Kombinationsfilter (Bsp. Kohle und HEPA), V-Zellen-Filter und kundenspezifische Entwicklungen
- Eine Auswahl der am besten geeigneten Medien und Materialien, die Möglichkeit von Beistellungen und Serienfertigung inkl. Qualitätskontrolle
- Erfahrung in der Herstellung von weit über 100 verschiedenen modularen und kundenspezifischen Komplettfiltersystemen

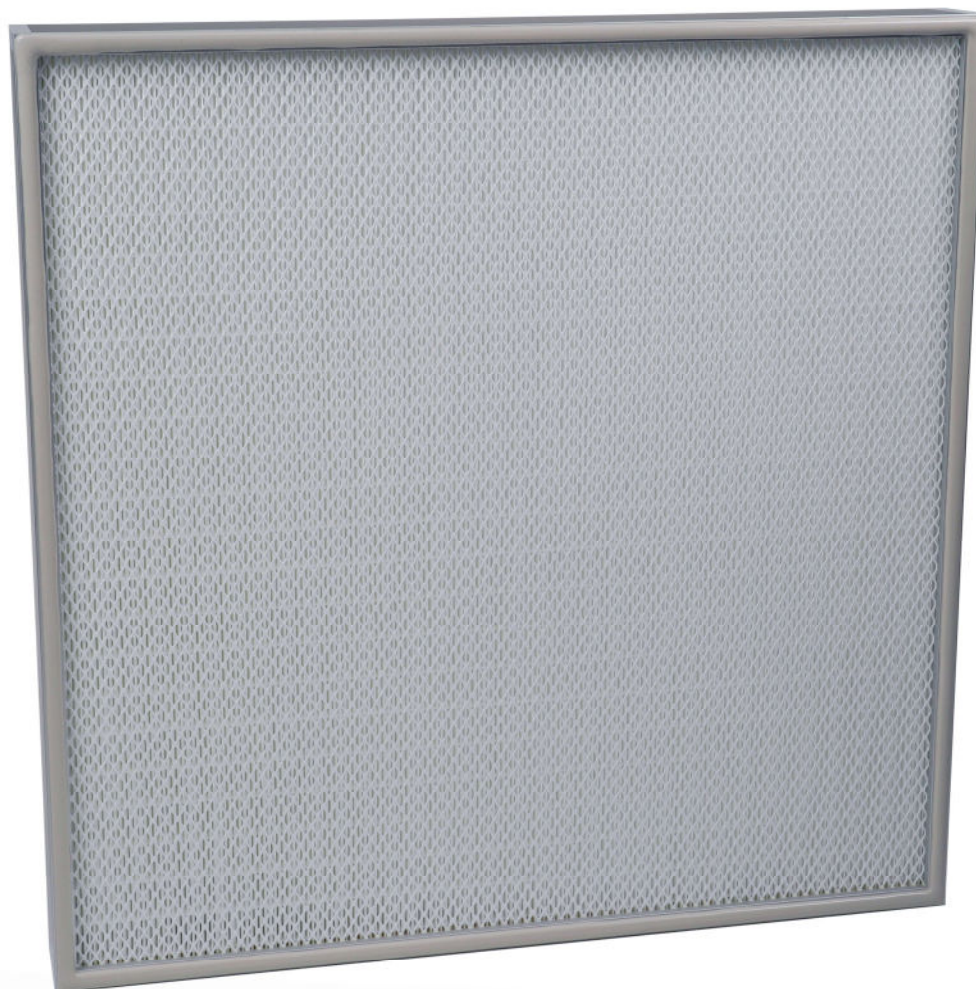


Particle and molecular filters with *PuraCair* - filter media

- Filters for separating particles, acid or basic gases and VOCs
- Combination filters, V-shape filters and customer specific developments
- Selection of the best filter media and material combinations, media provision possible and serial production including quality control
- Experience in production of more than 100 different modular filtersystems and processing of materials provided by the customer



Dryseal

**Mikroelektronik, Pharmazie, Medizin**

microelectronics, pharmaceuticals, healthcare

Hochleistungsprodukte bei niedrigen Betriebskosten

high performance products with low operating costs

Nahtlos geschäumte Dichtung bis zu 1830 mm Länge

seamless sealing up to 1830 mm length

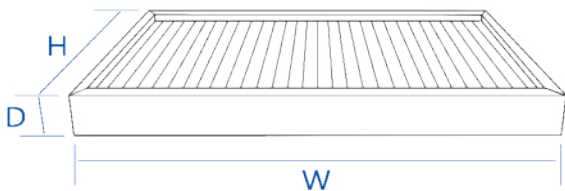
Umfangreiches Sortiment an Standardprofilen

comprehensive range of standard profiles

selection table			
Item	component		code definition
A	frame type	DS	Dryseal
B	frame material	ALU	aluminum extrusion
C	pleat pack	50, 74, 98	depth (mm)
D	filter class	14, 15, 16	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0	no gasket
		1	clean air side
		2	dirty air side
		3	both sides
G	faceguard position	F0	no faceguard
		F1	clean air side
		F2	dirty air side
		F3	both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

A	B	C	D	E	F	G	H	I
DS	ALU	50	14	G	1	F3	X0	...X...X... mm

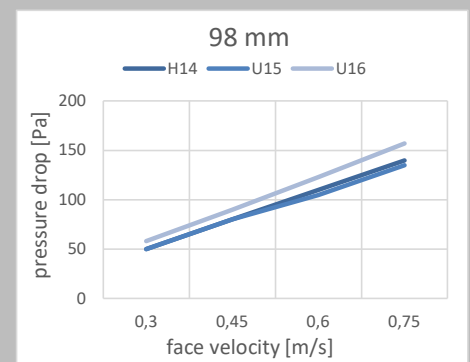
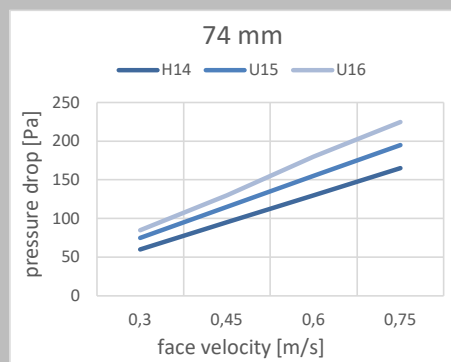
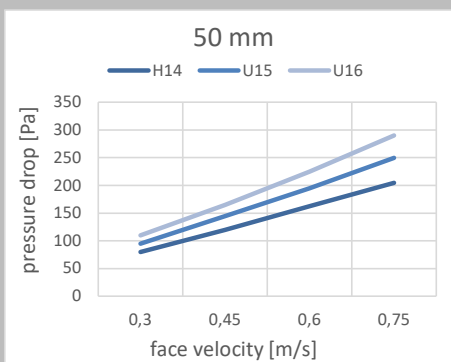
initial resistance @ nominal airflow				
filter class DIN EN 1822	depth [mm]			efficiency
	50 [Pa]	74 [Pa]	98 [Pa]	
H14	120	95	80	99,99500%
U15	145	120	80	99,99950%
U16	165	125	90	99,99995%



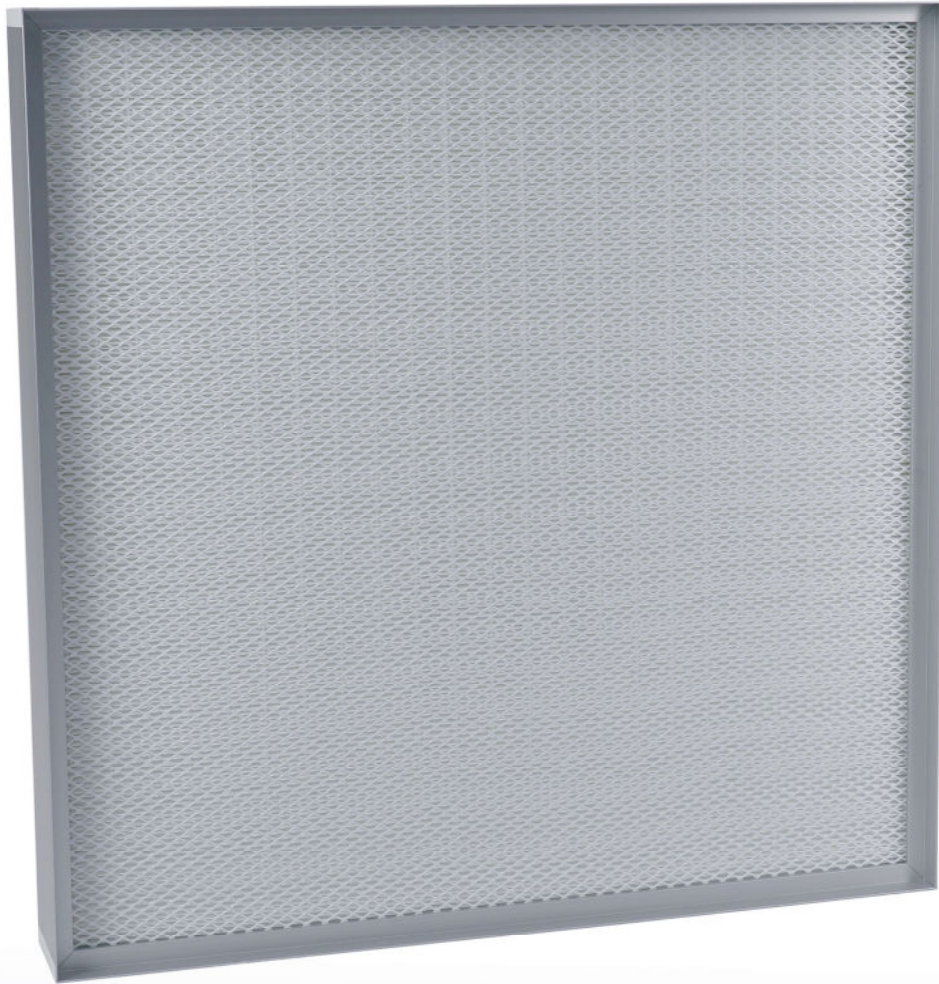
sizes in mm			airflow @ 0,45 m/s
H	W	D	
305	305	70	150
305	610	70	300
305	762	70	380
305	915	70	450
457	457	70	340
457	610	70	450
610	610	70	600
610	762	70	750
610	915	70	900
610	1220	70	1200
610	1524	70	1500
610	1830	70	1800
762	762	70	940
762	915	70	1130
762	1220	70	1500
762	1524	70	1880
762	1830	70	2260
915	915	70	1360
915	1220	70	1800
915	1524	70	2260
915	1830	70	2710
1220	1220	70	2400
305	305	94	150
305	610	94	300
610	610	94	600
610	762	94	750
610	915	94	900
610	1220	94	1200
762	762	94	940
305	305	118	150
457	457	118	340
610	610	118	600
610	762	118	750
610	915	118	900
610	1220	118	1200

temperature-limit 70°C

non standard options or dimensions upon request



Knifeedge

**Mikroelektronik, Pharmazie, Medizin**

microelectronics, pharmaceuticals, healthcare

Hochleistungsprodukte bei niedrigen Betriebskosten

high performance products with low operating costs

Nahtlos geschäumte Dichtung bis zu 1830 mm Länge

seamless sealing up to 1830 mm length

Umfangreiches Sortiment an Standardprofilen

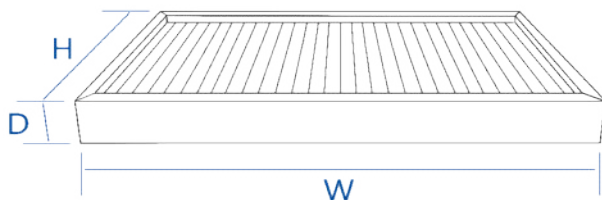
comprehensive range of standard profiles

selection table			
Item	component		code definition
A	frame type	KE	Knifeedge
B	frame material	ALU	aluminum extrusion
C	pleat pack	50, 74 ,98	depth (mm)
D	filter class	14, 15, 16	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0	no gasket
		1	clean air side
		2	dirty air side
		3	both sides
G	faceguard position	F0	no faceguard
		F1	clean air side
		F2	dirty air side
		F3	both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 0,45 m/s
H	W	D	
570	570	86	525
570	870	86	805
570	1170	86	1080
1170	1170	86	2220
570	570	110	525
570	870	110	805
570	1170	110	1080
1170	1170	110	2220
570	570	140	525
570	870	140	805
570	1170	140	1080
1170	1170	140	2220

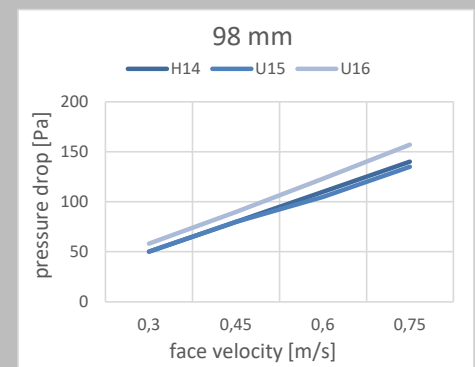
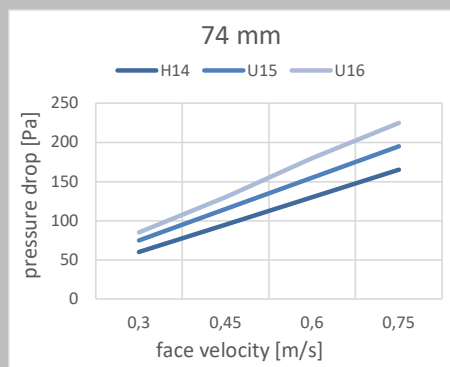
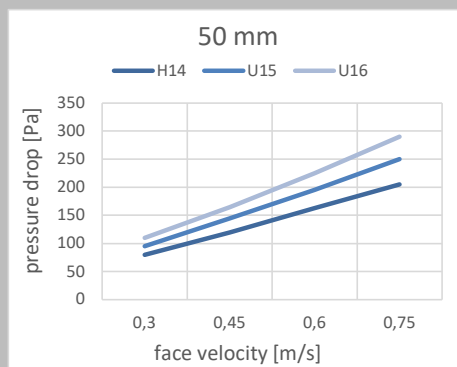
A	B	C	D	E	F	G	H	I
KE	ALU	50	14	G	2	F3	X0	...X...X... mm

initial resistance @ nominal airflow				
filter class DIN EN 1822	pressure drop			efficiency
	50	74	98	
	[Pa]			
H14	120	95	80	99,99500%
U15	145	120	80	99,99950%
U16	165	125	90	99,99950%



temperature-limit 70°C

non standard options or dimensions upon request



Hood-Frame

**Mikroelektronik, Pharmazie, Medizin**

microelectronics, pharmaceuticals, healthcare

Hochleistungsprodukte bei niedrigen Betriebskosten

high performance products with low operating costs

Nahtlos geschäumte Dichtung bis zu 1830 mm Länge

seamless sealing up to 1830 mm length

Verschiedene Ausführungen

various executions

Hood-Frame

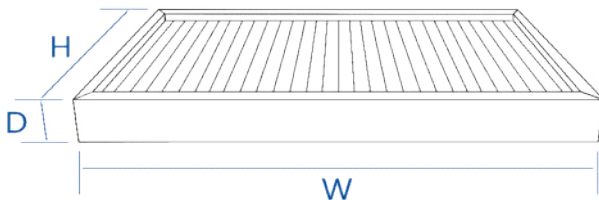
MADE IN GERMANY

selection table			
Item	component		code definition
A	frame type	HD250	Hood 250mm Ø flange
B	frame material	ALU	aluminum extrusion
C	pleat pack	125, 178	depth (mm)
D	filter class	14, 15	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1 F2 F3	no faceguard clean air side dirty air side both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 0,45 m/s
H	W	D	
305	610	125	300
610	610	125	600
610	915	125	900
610	1220	125	1200
305	610	178	300
610	610	178	600
610	915	178	900
610	1220	178	1200

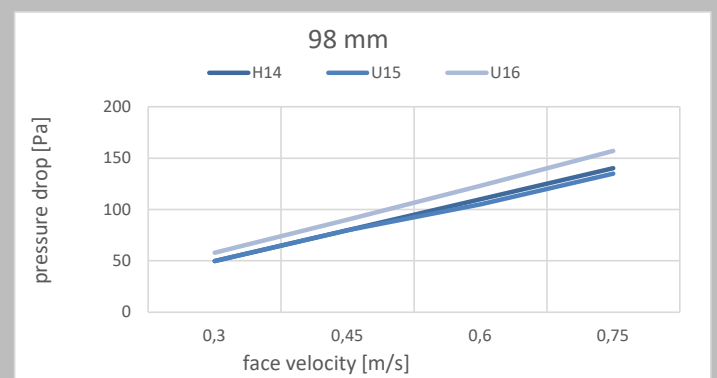
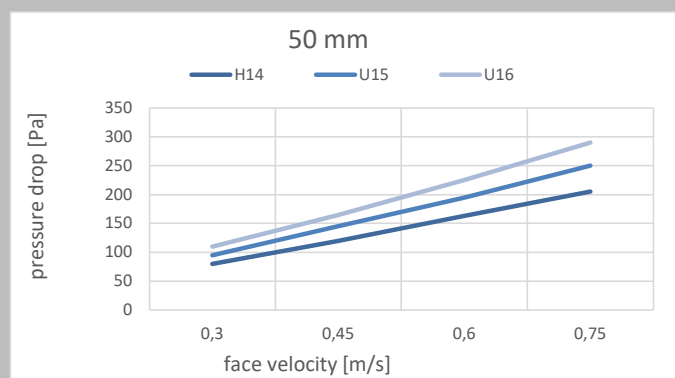
A	B	C	D	E	F	G	H	I
HD250	ALU	50	14	G	1	F0	X0	...X...X... mm

initial resistance @ nominal airflow			
filter class DIN EN 1822	depth (mm)		efficiency
	50	98	
	[Pa]		
H14	120	80	99,99500%
U15	145	80	99,99950%

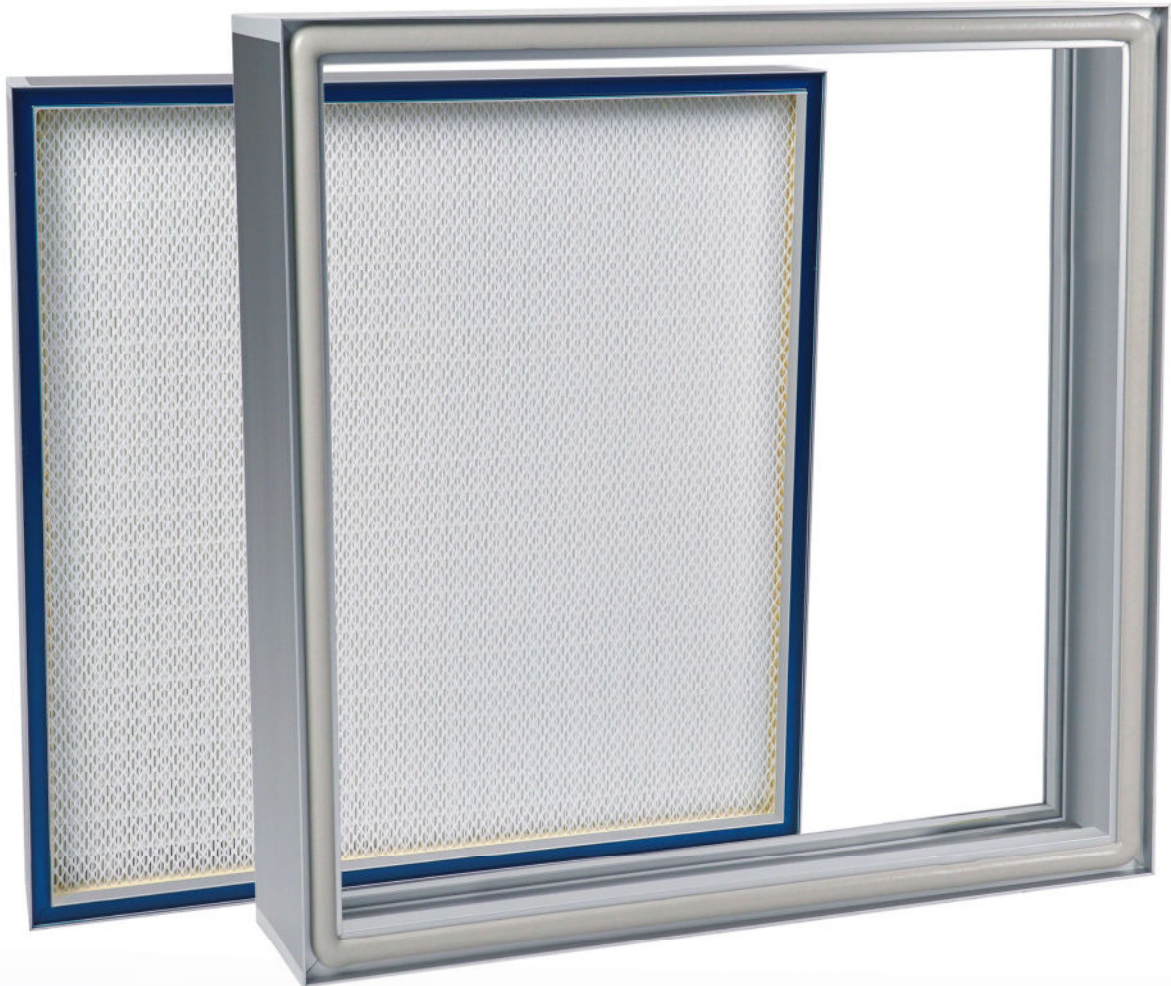


temperature-limit 70°C

non standard options or dimensions upon request



RSC-Frame

**Mikroelektronik, Pharmazie, Medizin**

microelectronics, pharmaceuticals, healthcare

Umfangreiches Sortiment an Standardprofilen

comprehensive range of standard profiles

Nahtlos geschäumte Dichtung bis zu 1830 mm Länge

seamless sealing up to 1830 mm length

Anwenderfreundliche Filterinstallation

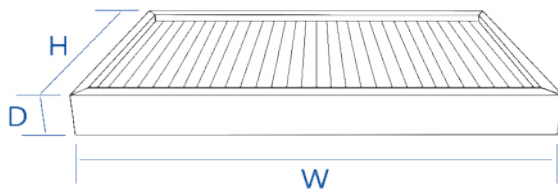
user-friendly filter installation

selection table			
Item	component		code definition
A	frame type	FR	frame
B	frame material	RSC	aluminum extrusion
C	pleat pack	0	no pleat pack
D	filter class	0	0
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0	no gasket
		1	clean air side
		2	dirty air side
		3	both sides
G	faceguard position	F0	no faceguard
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm		
H	W	D
570	570	109
570	870	109
570	1170	109
870	870	109
870	1170	109
570	570	133
570	870	133
570	1170	133
870	870	133
870	1170	133
570	570	165
570	870	165
570	1170	165
870	870	165
870	1170	165

A	B	C	D	E	F	G	H	I
FR	RSC	0	0	G	2	F0	X0	...x...x...mm

Fluidseal Filter assignment	
dimension Filter = H-35mm x W-35mm	
FR-RSC 109mm	Fluidseal Filter 80mm
FR-RSC 133mm	Fluidseal Filter 104mm
FR-RSC 165mm	Fluidseal Filter 128mm



non standard options or dimensions upon request.



Fluidseal



Mikroelektronik, Pharmazie, Medizin

microelectronics, pharmaceuticals, healthcare

Hochleistungsprodukte bei niedrigen Betriebskosten

high performance products with low operating costs

Umfangreiches Sortiment an Standardprofilen

comprehensive range of standard profiles

Gel-Dichtung bis zu 1830 mm Länge

air tight sealing up to 1830 mm length

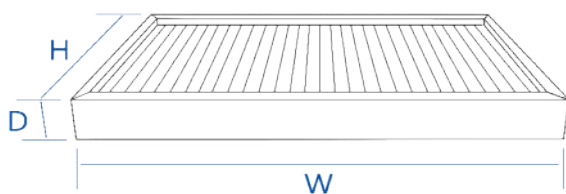
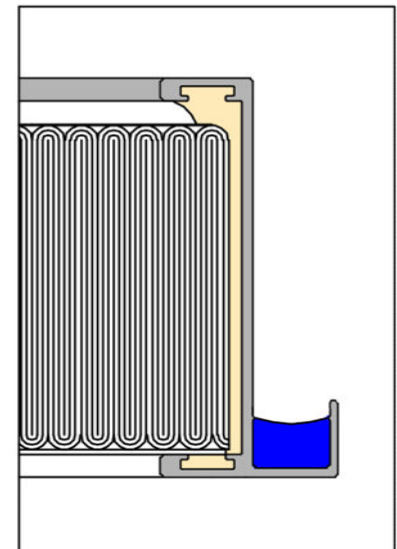
selection table			
Item	component		code definition
A	frame type	FS	Fluidseal
B	frame material	ALU	aluminum extrusion
C	pleat pack	50, 74, 98	depth (mm)
D	filter class	14, 15, 16	to DIN EN 1822
E	gasket type	G	G = one piece foamed
F	gasket position	0	no gasket
		1	clean air side
		2	dirty air side
G	faceguard position	F0	no faceguard
		F1	clean air side
		F2	dirty air side
		F3	both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 0,45m/s
H	W	D	
535	535	80	460
535	835	80	725
535	1135	80	985
1135	1135	80	2087
535	535	104	460
535	835	104	725
535	1135	104	985
1135	1135	104	2087
535	535	128	460
535	835	128	725
535	1135	128	985
1135	1135	128	2087

A	B	C	D	E	F	G	H	I
FS	ALU	50	14	G	2	F3	X0	...x...x...mm

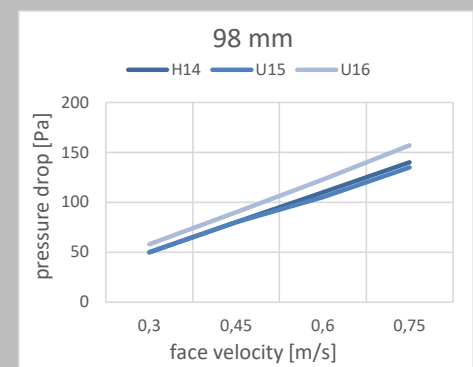
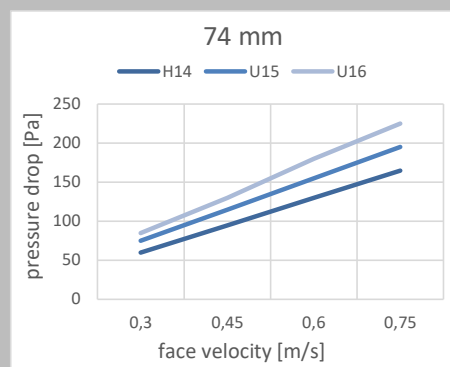
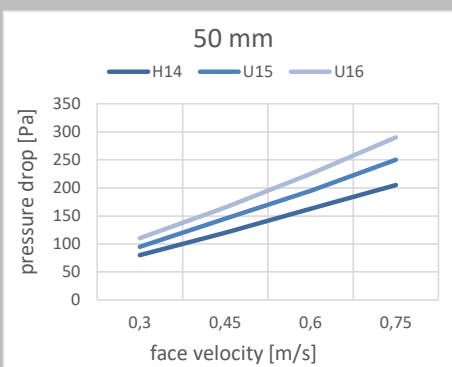
Fluidseal-Header Option
depth 80/104 mm

initial resistance @ nominal airflow				
filter class	depth [mm]			efficiency
	50	74	98	
	[Pa]			
H14	120	95	80	99,99500%
U15	145	120	80	99,99950%
U16	165	125	90	99,99995%



temperature-limit 70°C

non standard options or dimensions upon request



HiCap



Industrie, Mikroelektronik, Pharmazie, Medizin
applications, microelectronics, pharmaceuticals, healthcare

Zwei Standardtiefen: 292 mm und 400 mm
two standard depths: 292 mm and 400 mm

mit Geldichtung und in ATEX-Ausführung
fluidseal execution + ATEX execution

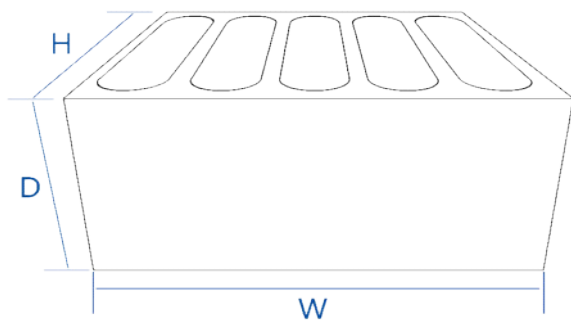
Hohe Energieeffizienz
high energy efficiency

selection table			
Item	component		code definition
A	frame type	HIC	HiCap
B	frame material	MTL	galv. steel
C	pleat pack	25	depth (mm)
D	filter class	11, 12 ,13, 14	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0	no faceguard
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 3,00 m/s
H	W	D	
305	305	292	1000
305	610	292	2000
610	610	292	4000
610	610	400	4000

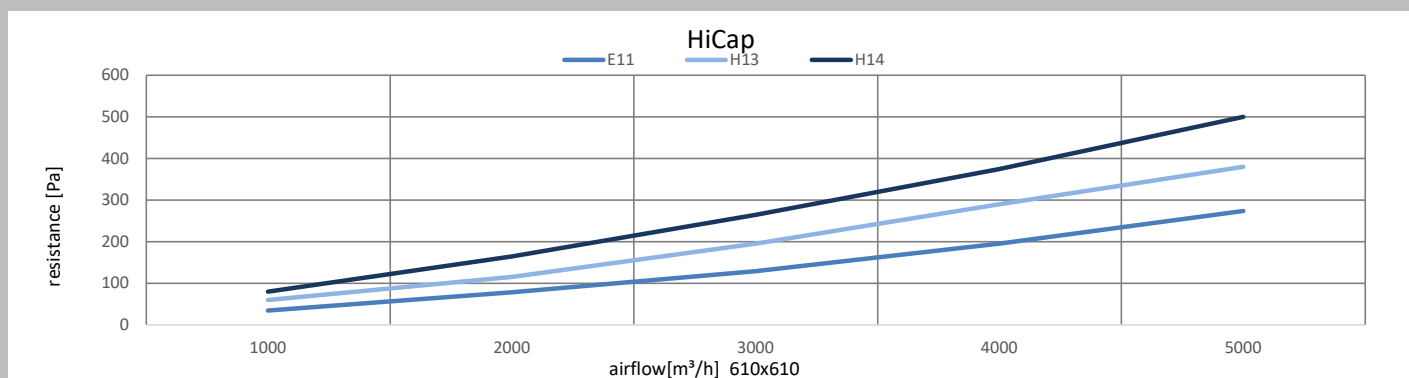
A	B	C	D	E	F	G	H	I
HIC	MTL	25	14	G	1	F0	X0	...X...X... mm

initial resistance @ nominal airflow		
filter class DIN EN 1822	pressure drop [Pa]	efficiency
E11	200	99,00000%
H13	290	99,95000%
H13 (400)	200	99,95000%
H14	375	99,99500%
H14 (400)	275	99,99500%



temperature-limit 70°C

non standard options or dimensions upon request





V-Cell



Klassifizierung nach DIN EN ISO 16890

classification acc. to DIN EN ISO 16890

Kopfrahmen in 20/25 mm

header in 20/25 mm

Verfügbar in 440 mm Tiefe

available in 440 mm depth

Hohe Energieeffizienz

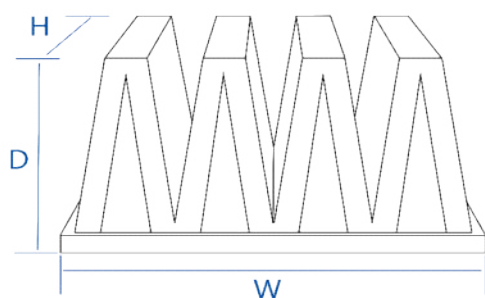
high energy efficiency

selection table			
Item	component		code definition
A	frame type	Comp20/25	V-Cell frame
B	frame material	S	micro fiberglass
C	pleat pack	23	depth (mm)
D	filter class	ePM	to DIN EN ISO 16890
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1	no faceguard clean air side
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			execution
H	W	D	
592	592	292	1/1
592	287	292	1/2
592	402	292	4/6
592	490	292	5/6

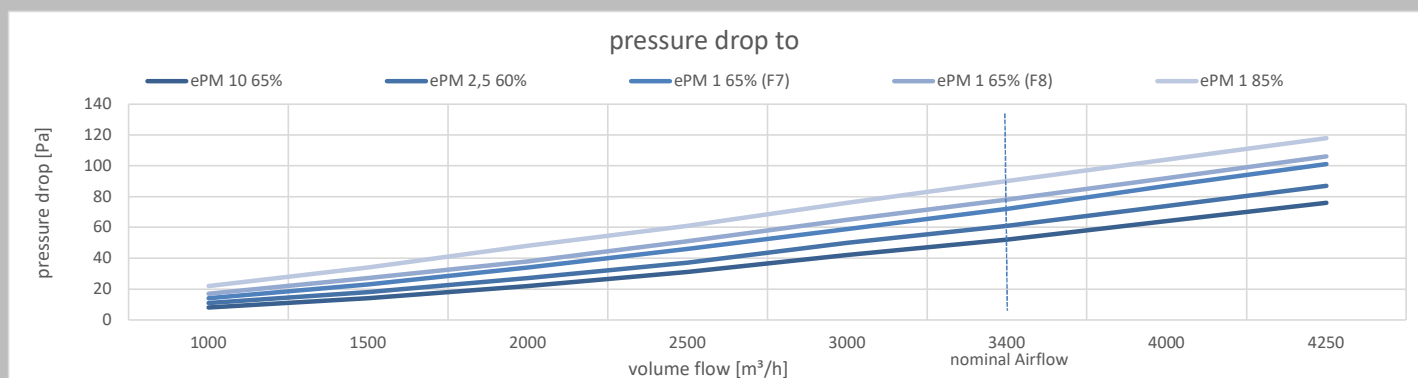
A	B	C	D	E	F	G	H	I
Comp	S	23	8	G	0	F0	X0	...X...X... mm

initial resistance @ nominal airflow		
filter class to EN779	filter class to DIN EN ISO 16890	pressure drop [Pa]
5, 6	ePM10 65%	50
7	ePM2,5 60%	60
7	ePM1 65%	70
8	ePM1 65%	80
9	ePM1 85%	90



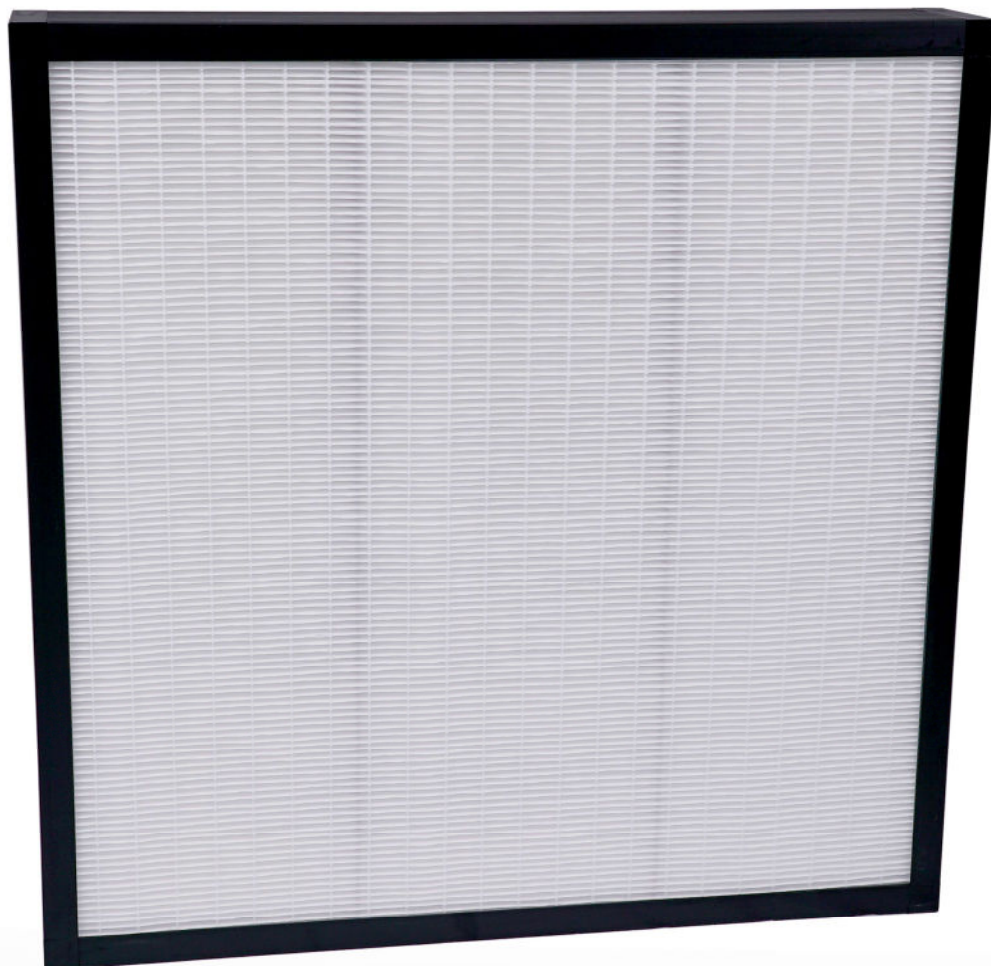
temperature-limit 70°C

non standard options or dimensions upon request





CompE



Klassifizierung nach DIN EN ISO 16890

classification acc. to DIN EN ISO 16890

Filterklasse H13 nach DIN EN 1822

filter class H13 acc. to DIN EN 1822

Verfügbar in 48 mm - 292 mm Tiefe

available in depths 48 mm - 292 mm

Vollständig veraschbar

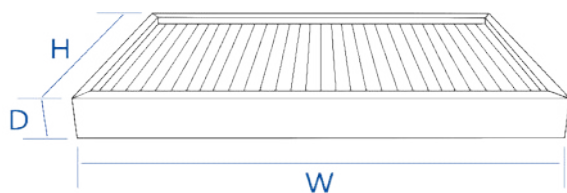
fully incinerable

selection table			
Item	component		code definition
A	frame material	Comp	plastic
B	frame type	E	U-frame
C	pleat pack	40,80,98,180	depth (mm)
D	filter class	6,7,8,9,13	acc. To DIN EN 779/EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1 F2 F3	no faceguard clean air side dirty air side both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow m ³ /h
H	W	D	
ePM10 - ePM1			
287	592	100	1650
592	592	100	3400
287	592	150	1650
592	592	150	3400
H13			
287	592	100	1650
592	592	100	3400
287	592	150	1650
592	592	150	3400

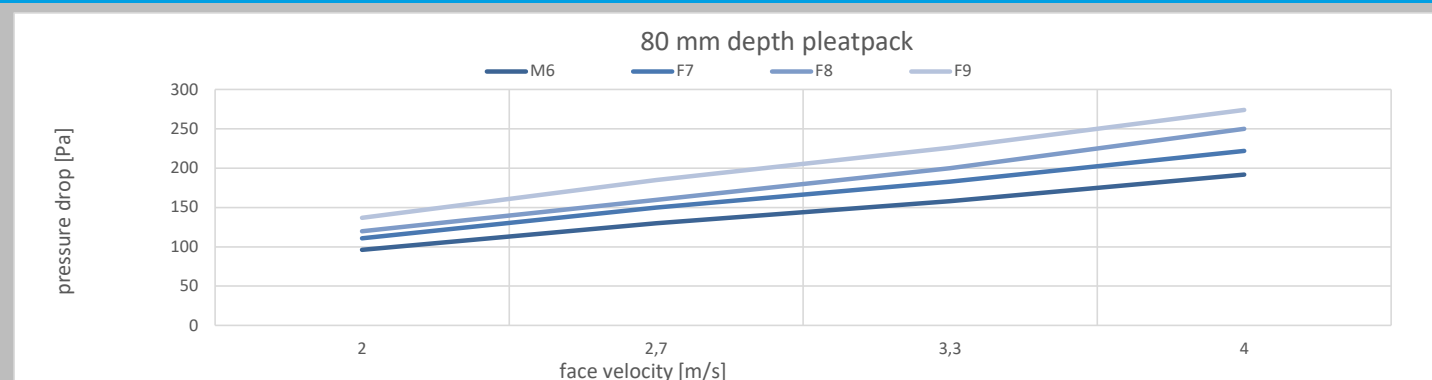
A	B	C	D	E	F	G	H	I
Comp	E	40	7	G	1	F0	X0	...x...x...mm

initial resistance @ nominal airflow					
filter class to EN 779 / EN 1822	depth [mm]				efficiency
	40	80	98	180	
	[Pa]				
M6	110	130	/	/	ePM 10 65%
F7	160	150	/	/	ePM 2,5 60 %
F8	185	150	/	/	ePM 1 65%
F9	235	185	/	/	ePM 1 85%
H13	/	/	250	290	99,95000%



temperature-limit 70°C

non standard options or dimensions upon request





CompM



Klassifizierung nach DIN EN ISO 16890

classification acc. to DIN EN ISO 16890

Kopfraumen in 20/25 mm

header in 20/25 mm

Verfügbar in 100 mm und 150 mm Tiefe

available in depths 100 mm and 150 mm

Vollständig veraschbar

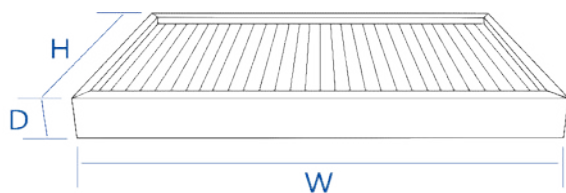
fully incinerable

selection table			
Item	component		code definition
A	frame material	Comp	plastic
B	frame type	M	Header-frame
C	pleat pack	80	depth (mm)
D	filter class	6,7,8,9	acc. To DIN EN 779
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1 F2 F3	no faceguard clean air side dirty air side both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 2,7 m/s
H	W	D	
287	592	100	1650
592	592	100	3400
287	592	150	1650
592	592	150	3400

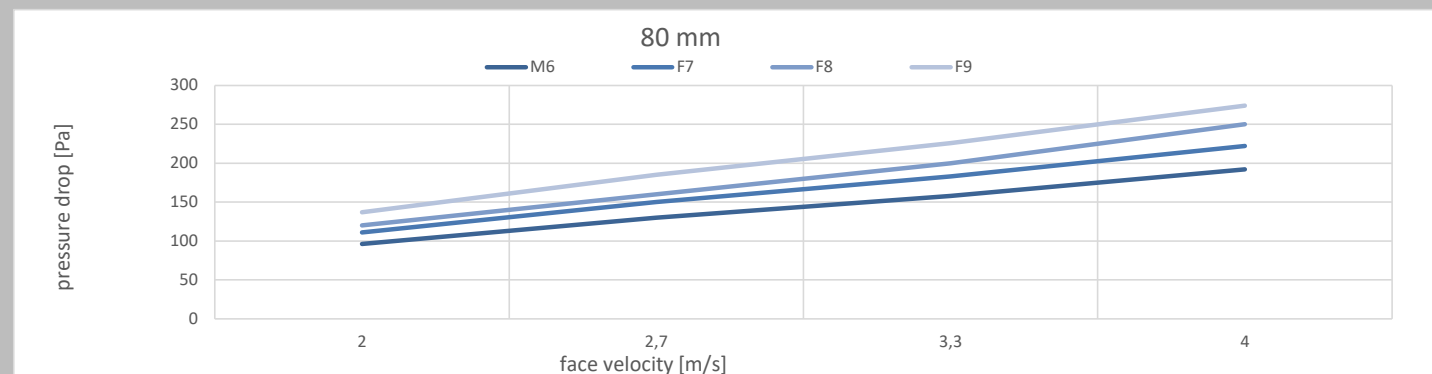
A	B	C	D	E	F	G	H	I
Comp	M	80	7	G	0	F0	X0	...x...x...mm

initial resistance @ nominal airflow		
filter class	depth [mm] 80	efficiency
	[Pa]	
M6	130	ePM 10 65%
F7	150	ePM 2,5 60 %
F8	150	ePM 1 65%
F9	185	ePM 1 85%



temperature-limit 70°C

non standard options or dimensions upon request



PAK-MTL

**Rahmen in 150 mm und 292 mm Tiefe**

in 150 mm and 292 mm depth

Filterklassen H13 nach DIN EN 1822

filter class H13 acc. to DIN EN 1822

Weitere Filterklassen verfügbar

other filter classes available

Ausführung in Edelstahl möglich

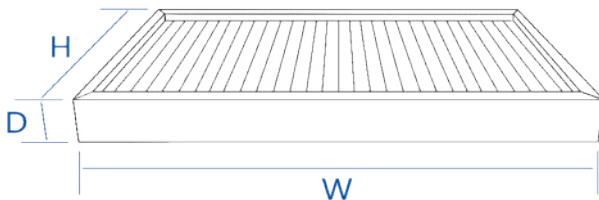
stainless steel execution available

selection table			
Item	component		code definition
A	frame type	PAK	PAK-Version
B	frame material	MTL	anodized steel
C	pleat pack	120, 180	depth (mm)
D	filter class	H13	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1 F2 F3	no faceguard clean air side dirty air side both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow
H	W	D	
305	305	150	500
610	305	150	1000
610	610	150	2000
305	305	292	750
610	305	292	1500
610	610	292	3000

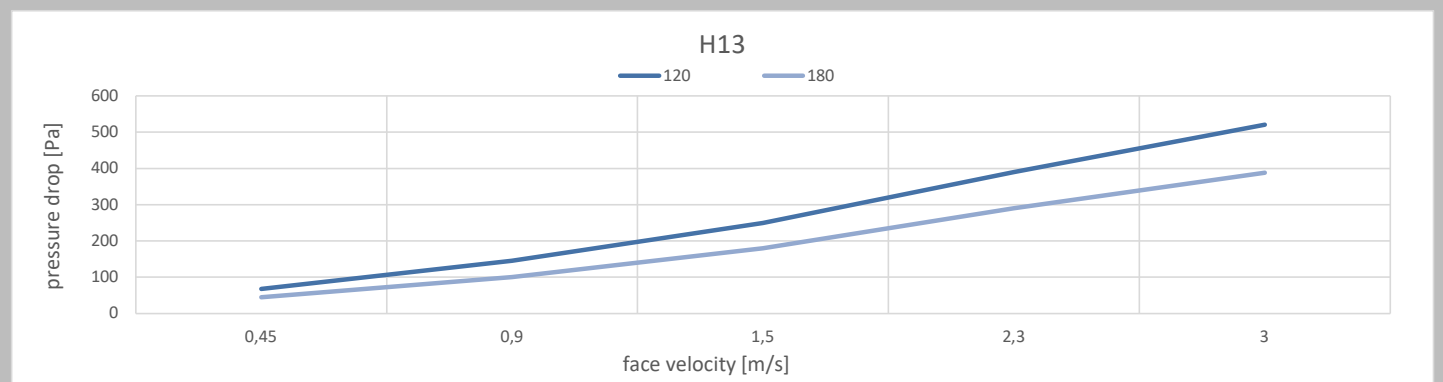
A	B	C	D	E	F	G	H	I
PAK	MTL	180	13	G	1	F0	X0	...X...X... mm

initial resistance @ nominal airflow			
filter class DIN EN 1822	depth (mm)		efficiency
	120 1,5 m/s	180 2,3 m/s	
		[Pa]	
H13	250	290	99,95000%



temperature-limit 70°C

non standard options or dimensions upon request



PAK-MDF

**Nahtlos geschäumte oder Flachprofilichtung**

seamless or flat profile sealing

Filterklassen H13 nach DIN EN 1822

filter class H13 acc. to DIN EN 1822

Weitere Filterklassen verfügbar

other filter classes available

Vollständig veraschbar

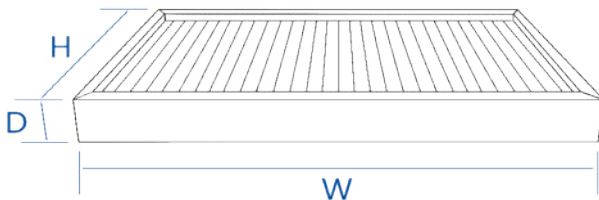
fully incinerable

selection table			
Item	component		code definition
A	frame type	PAK	PAK-Version
B	frame material	MDF-S	MDF standard
C	pleat pack	50, 120, 180	depth (mm)
D	filter class	13	to DIN EN 1822
E	gasket type	G, N	G = one piece foamed N = flat profile
F	gasket position	0 1 2 3	no gasket clean air side dirty air side both sides
G	faceguard position	F0 F1 F2 F3	no faceguard clean air side dirty air side both sides
H	specifics		upon request
I	dimensions	H x W x D	mm

sizes in mm			airflow @ 0,45 m/s
H	W	D	
305	305	78	300
305	610	78	600
457	457	78	675
557	557	78	1000
575	575	78	1075
610	610	78	1200
305	305	150	500
610	305	150	1000
610	610	150	2000
305	305	292	750
610	305	292	1500
610	610	292	3000

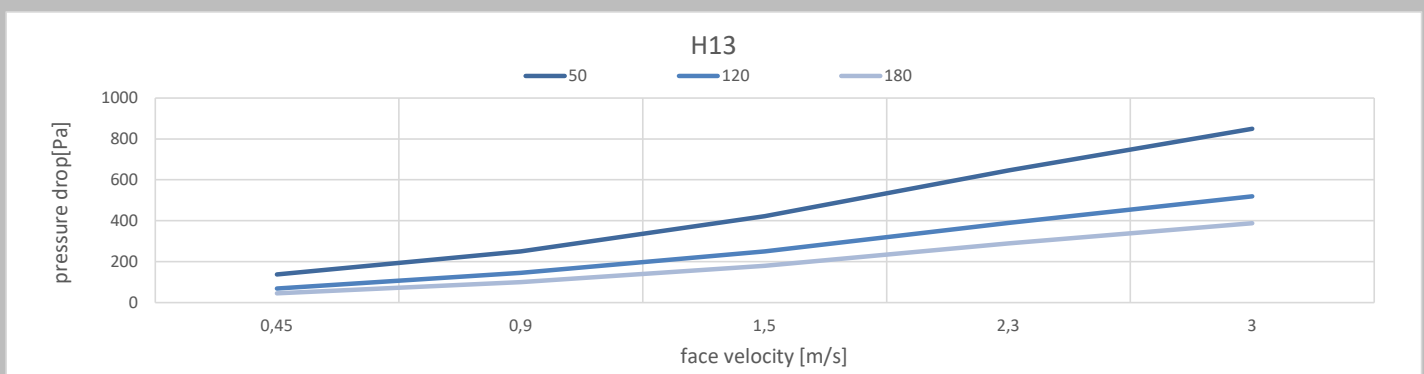
A	B	C	D	E	F	G	H	I
PAK	MDFS	180	13	G	1	F0	X0	...X...X... mm

initial resistance @ nominal airflow				
filter class DIN EN 1822	depth (mm)			efficiency
	50 0,9 m/s	120 1,5 m/s	180 2,3 m/s	
[Pa]				
H13	250	250	250	99,99950%



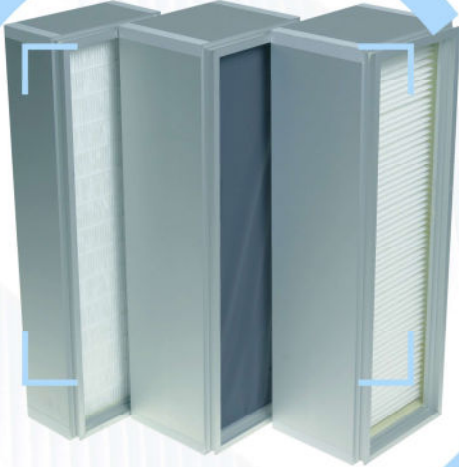
temperature-limit 70°C

non standard options or dimensions upon request



Besonderheiten / Spezialprodukte

special features / special products



Spezialrahmen

B&S entwickelt in enger Zusammenarbeit mit Kunden Filterlösungen nach höchsten Anforderungen, wie zum Beispiel in speziellen Rahmensystemen.

Special frame

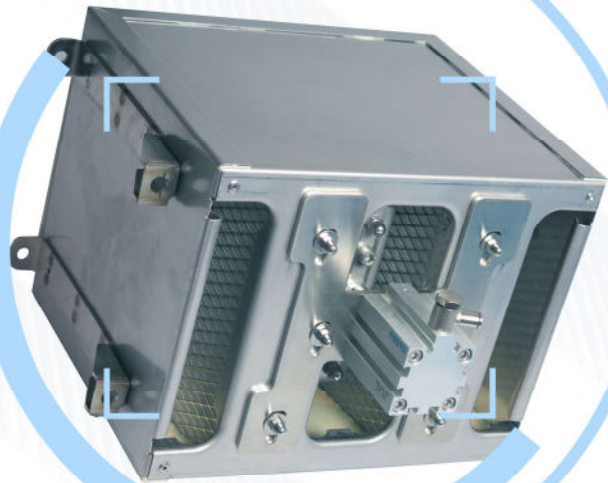
B&S develops filter solutions in close cooperation with customers according to the highest requirements, such as in special frame systems.

Landwirtschaftsfilter (Set)

Das Landwirtschaftsfilter-System zeigt das umfangreiche Kompetenzspektrum der B&S-Gruppe. Hier sind neben einem G4/F7 Vorfilter, ein Aktivkohlefilter zur Schadgasadsorption und ein HEPA 13 Glasfaserfilter zur Aerosolabscheidung verbaut. Die Kombination dieser Filter erfüllt die strengen Vorgaben der DIN EN 15659.

Agricultural filters

The agricultural filter system is one example of the B&S Group expertise. In addition to a G4/F7 pre-filter, an activated carbon filter for the adsorption of harmful gases, and a HEPA 13 glassfiber filter for aerosol separation are installed. The combination of these filters meets the strict requirements of DIN EN 15659.



HEPA-Patronenfilter

B&S fertigt Patronenfilter mit höchster Filtrationseffizienz. Durch ein spezielles Plissierverfahren von hochwertigen Mikro-Glasfasermedien, können Filterpanels für Patronenfilter gefertigt werden.

HEPA cartridge filter

B&S manufactures cartridge filters with the highest filtration efficiency.

By a special pleating process, filter panels for cartridge filters can be manufactured with high-quality micro glass fiber media.





B&S GROUP WEINHEIM

Filterprodukte aus der Zwei-Burgen-Stadt
in der Metropolregion Rhein-Neckar



MADE IN GERMANY



B&S *PuraCair* - G Medien

Mit den hochwertigen Mikro-Glasfasermedien können höchste Filtrationseffizienzen (bis U17 nach DIN EN 1822) bei niedrigsten Druckverlusten realisiert werden.

B&S *PuraCair* - G media

With our high-quality micro glass fiber media we can realize highest filtration efficiencies (up to U17 according to DIN EN 1822) at lowest pressure drop.

B&S Kartonagensysteme

Durch hochwertige Kartonagensysteme gewährleistet B&S einen beschädigungsfreien Transport bei gleichzeitig komfortablem Auspacken der Filter.

B&S cardboard box systems

The high-quality cardboard box system provides a damage-free transport and comfortable unpacking of the filters.

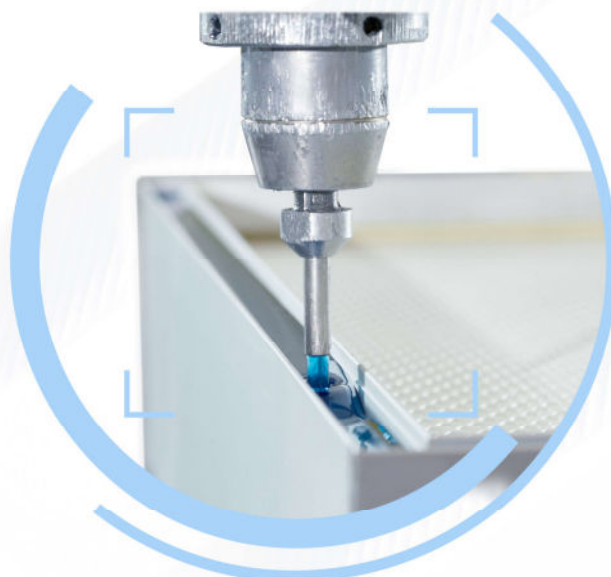


Vollautomatische Dichtungsanlage

Mithilfe einer vollautomatischen Dosieranlage ist B&S in der Lage, drei verschiedene 2K-Polyurethan-Dichtungen flexibel auf die Filter aufzubringen.

Fully automatic sealing system

By of a fully automatic dosing system, B&S is able to flexibly apply three different 2K polyurethane seals to the filters.



IHR PARTNER IN DER FILTERINDUSTRIE

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