

Protect your air. Worldwide.



Product catalogue

Filters for air conditioning technology
Filters for painting and drying technology



Air conditioning technology



Painting & drying technology



www.volzfilters.com

Portrait VOLZ Luftfilter GmbH & Co. KG

Facts and figures:

Volume of sales 2008:	45 Mio. Euro
Employees 2008:	500 employees
Production area 2008:	60.000 sqm
Variety of products 2008:	more than 8,500 different products

VOLZ Luftfilter GmbH & Co. KG has been developing, manufacturing and selling filter media and filter products for air conditioning and ventilation, painting and drying applications as well as turbomachinery. With this range, VOLZ Filters is one of the leading manufacturers and is internationally known for innovative products. From small series to large quantities – there are many possibilities to fulfil our customers requirements. Quality controls of our complete production with internal filter test equipment and modern quality management tools ensure high product quality. We supply all filter classes from G2 to H14 for every application.

Beside a range of high quality filter products, VOLZ Filters also offers a variety of different services, e.g.: technical consulting, training courses, filter management and particle measurement on site.

Our production in Horb is one of the most modern filter manufacturing plants in the world, e.g. production of our glass fibre mats (coalescer) uses up to date technology.

All production stages from manufacturing of nonwoven materials to assembly of final filters are carried out on site, which creates a fully transparent process.

From fibres to the final filters – perfect.



Management: Rainer Volz, Manfred Volz



VOLZ Luftfilter GmbH & Co. KG

Plant II - VII
Gesslerstraße 3
D-72160 Horb am Neckar

Phone: +49 - (0)7451 - 5516 - 0
Fax: +49 - (0)7451 - 5516 - 120

www.volzfilters.com
info@volzfilters.com

Teams of VOLZ Filters

For your support ...

... we have professional teams who give you best advice and help for your specific demands. So you can be sure that you get quick and competent answers on individual questions. Take a look at our and your teams.

Key Account Management

Andreas Hammer

Director Key Account Management
Branch Office Frankfurt a.M.
Solmische Weiherstraße 28
D-63303 Dreieich

Phone: +49(0) 6103 / 20 24 635
Fax: +49(0) 6103 / 20 24 637
Mobile: +49(0) 152 / 288 05 521
Email: a.hammer@volzfilters.com

Andreas Wolf

Key Account Manager
Branch Office Berlin
Vienweg 57
D-13127 Berlin

Phone: +49(0) 30 / 47 480 180
Fax: +49(0) 30 / 47 480 181
Mobile: +49(0) 152 / 288 05 529
Email: a.wolf@volzfilters.com

Chris Howarth

Export Key Account Manager
Phone: +44(0) 161 / 743 41 90
Fax: +44(0) 161 / 743 13 90
Mobil: +44(0) 79 20 / 015 903

Home Office:
Phone: +44(0) 12 82 / 876 224
Fax: +44(0) 12 82 / 770 704
Email: c.howarth@volzfilters.com

Stefaan De Beats

Export Key Account Manager

Phone: +32(0) 493 / 18 72 99
Email: s.debaets@volzfilters.com

Team “Air conditioning and ventilation”

Your supporting team for “Air conditioning and ventilation” (Plant engineering)

Endres, Claudia ext.-156; Fais, Dagmar ext.-135; Giersch, Nicole ext.-105; Golding, Gaby ext.-144; Haas, Sonja ext.-155; Hess, Irina ext.-153; Maile, Vera ext.-142; Mantwill, Katharina ext.-151; Teufel, Margret ext.-154; Wurster, Sandra ext.-117 and Wüstholtz, Brigitte ext.-152

Your supporting team for “Air conditioning and ventilation” (Building services engineering)

Bühler, Christine ext.-141; Fuhrer, Jennifer ext.-907; Graf, Monika ext.-159; Grieb, Anette ext.-148; Gromme, Brigitte ext.-162; Huber, Nicole ext.-145; Juric, Ivica ext.-164; Krauß, Manuela ext.-147; Mathea, Helga ext.-143; Roth, Anna ext.-173; Saier, Andrea ext.-166 and Singer, Adelheid ext.-165

Team “Automotive”

Your supporting team “Automotive”

Barth, Julia ext.-157; Beilharz, Manuela ext.-131; Gabriel, Thorsten ext.-194; Julke, Gisela ext.-163; Kalmbach, Michaela ext.-192; Kipros, Dimitrios ext.-119; Kramp, Daniel ext.-198; Pakosch, Peter ext.-146; Reinhard, Jessica ext.-167; Stopper, Gernot ext.-161 and Zagorakis, Georgios ext.-124

Your supporting team “Automotive-Export”

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Team „Export“

Your supporting team “Export”

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VOLZ Luftfilter GmbH & Co. KG

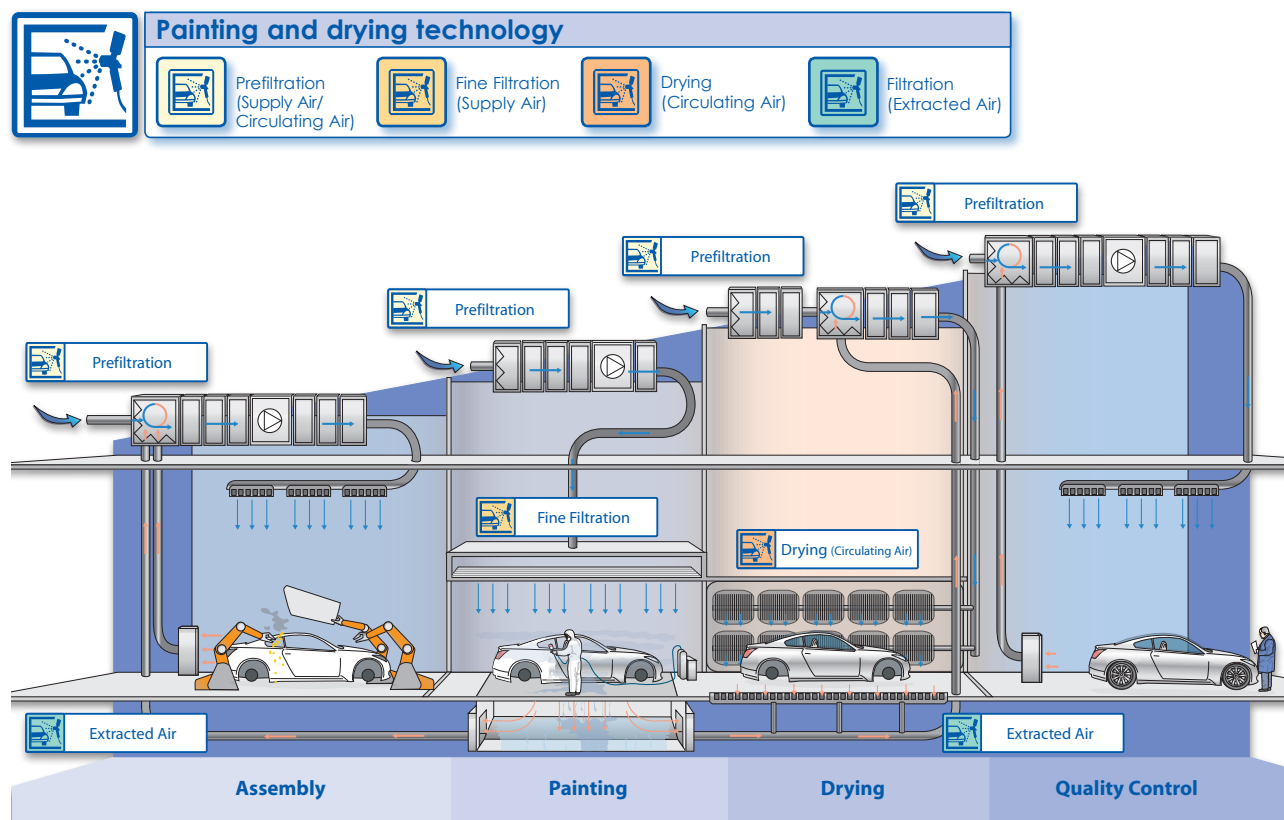
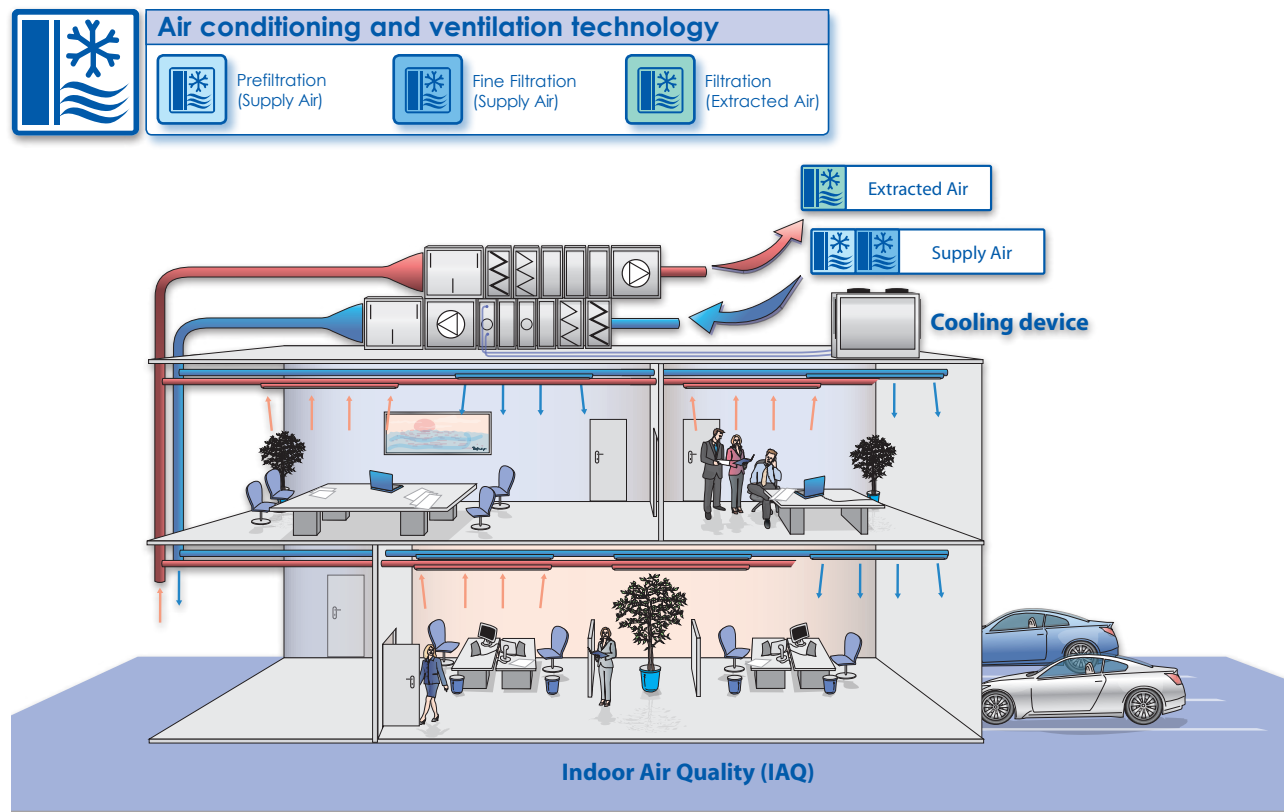
Plant I
Robert-Bosch-Straße 25
D-72160 Horb am Neckar

Phone: +49 - (0)7451 - 5516 - 0
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info@volzfilters.com



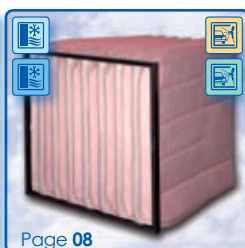
Fields of application





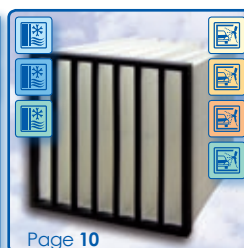
Page 06

Pocket filter pre filtration



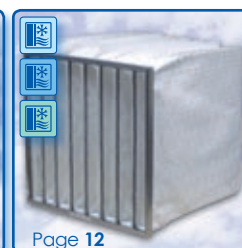
Page 08

Pocket filter fine filtration



Page 10

Pocket filter V-series



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Pocket filter Ex-Protect



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Pocket filter Biostat

Pocket filters



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Pre filtration mats



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Fine filtration mats



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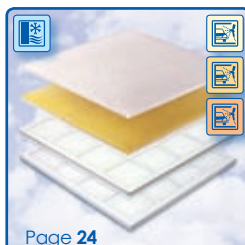
Glass fibre mats



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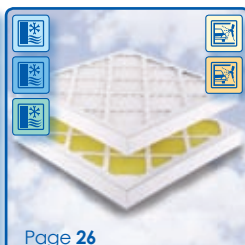
HT-glass fibre mats

Filtration mats



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Filterpacks



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Frame filter



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CompaPleat



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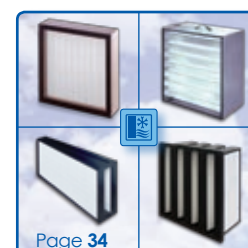
Compact filter



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HT-filter

Pleat filters (cassettes)



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HEPA filters

HEPA filters



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SepaPaint



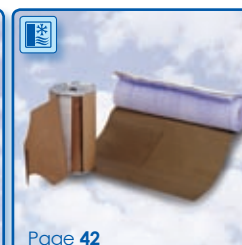
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Activated coal cartridges



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Basket filter



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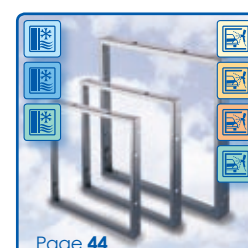
Roller tape filter



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Extra-/special filters

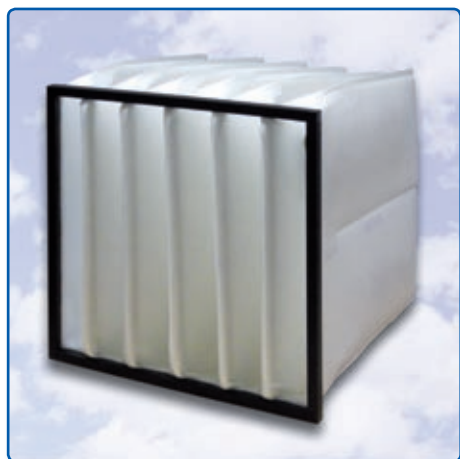
Extra-/special filters



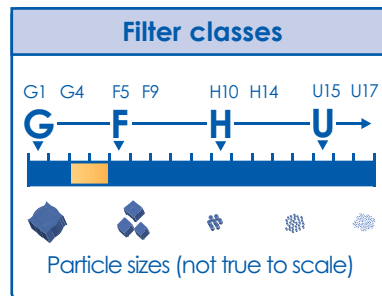
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Holding frame

Accessories



Pocket filter pre filtration



Applications

For pre filtration in aerial engineering devices of all kinds

- Air conditioning in offices, schools, laboratories
- Prefiltration for fine filters
- Prefiltration for paint shops

Classification acc. to EN 779

- Filter class **G3 (EU3)**
- Filter class **G4 (EU4)**

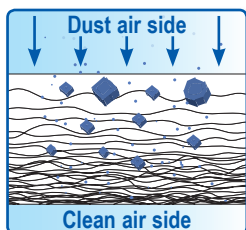
Versions

- Standard sizes welded
- Special sizes on request
- Frame types:
Plastic frame (25mm),
Metal frame (20 or 25mm)
- Filters with plastic frame are fully incinerable
- Optional with foamed hygiene-gasket

Material characteristics

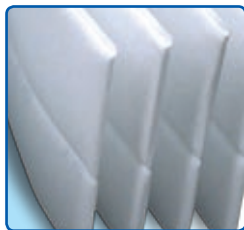
- Tested according to EN 779
- Shatter-proof synthetic fibres, environmentally safe
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 80°C depending on type of frame
- Lacquer compatibility according to IPA-control
- High self-rigidity of the pockets

Benefits of VOLZ Filters



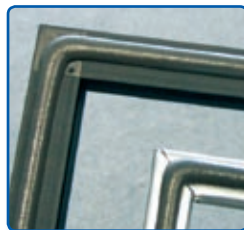
Progressive structure

- The filter medium is compressed towards clean air side and takes full depth of fibrous web for dust absorption



Higher density

- Higher density and pressure load due to endless pockets and their edge welding



Hygiene-gasket (optional)

- Hygiene-gasket on pocket filter frame available on the clean air side or on the dust air side
- Abrasion-resistant, silicone-free, closed porous



- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

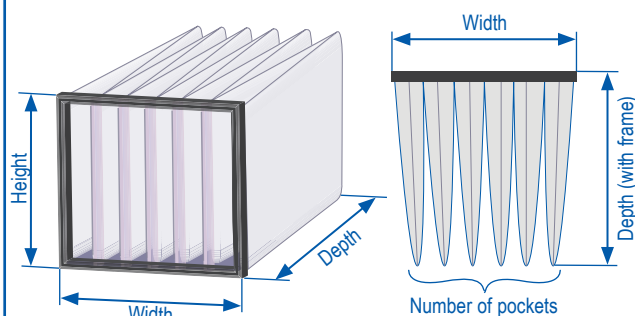
Standard versions for pocket filter G3 - G4							
Width x Height	Depth	Number of pockets	Filter area	Width x Height	Depth	Number of pockets	Filter surface
	mm		m ²		mm		m ²
592 x 592 mm *1	200	6	1.6	592 x 490 mm *2	200	6	1.5
	300	6	2.4		300	6	2.1
	360	6	2.7		360	6	2.5
	500	6	3.9		500	6	3.4
	600	6	4.5		600	6	4.0
490 x 592 mm *1	200	5	1.3	592 x 287 mm *1	200	6	0.9
	300	5	1.9		300	6	1.2
	360	5	2.3		360	6	1.4
	500	5	3.2		500	6	2.0
	600	5	3.8		600	6	2.2
287 x 592 mm *1	200	3	0.8	287 x 287 mm *1	200	3	0.4
	300	3	1.2		300	3	0.5
	360	3	1.4		360	3	0.7
	500	3	1.9		500	3	1.0
	600	3	2.3		600	3	1.1

- Plastic frame (25mm), metal frame (20 or 25mm)
- Optional with foamed hygiene-gasket
- Pocket filters with plastic frame must be used holohedral incumbent
- Special sizes and special depths available on request

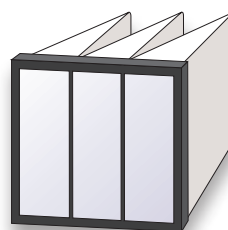
*1 Standard sizes welded

*2 Special sizes stitched

Specification pocket filter



Assembly instruction for correct installation



Correct Installation!
Pockets stand vertically

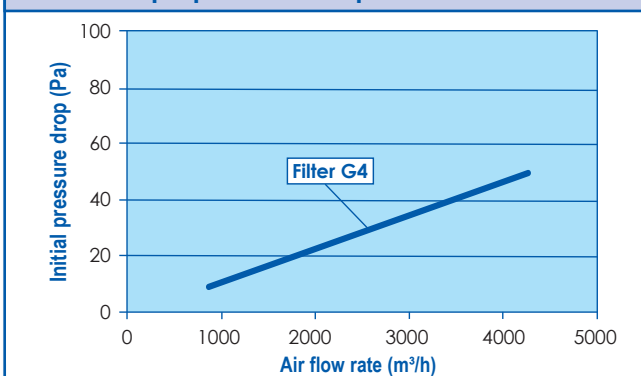


Incorrect Installation!
Pockets lie horizontally! Pockets below running risk of absorbing condensed water

Pocket filter pre filtration; G4 (EU4) 592 x 592 x 600; 6 pockets

Initial pressure drop (Pa)	40	Average arrestance (%)	≥ 90
Recommended final pressure drop (Pa)	250		
Nominal air flow rate (m ³ /h)	3400	Filter area (m ²)	4.5

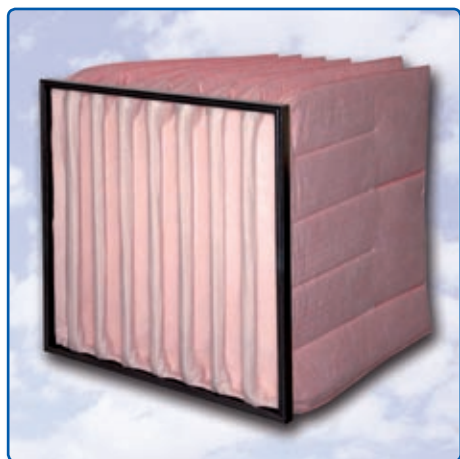
Graph pocket filter pre filtration G4



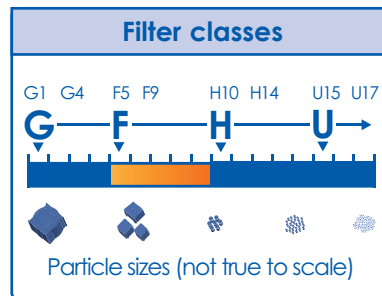
VOLZ Luftfilter GmbH & Co. KG

Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Pocket filter fine filtration



Applications

For fine filtration in heat ventilation and air conditioning devices and plants of all kinds

- Offices, hospitals, computing centres
- Pharmaceuticals, fine-mechanical and food industry
- Prefiltration e.g. for HEPA filters

Classification acc. to EN 779

- Filter class **F5 (EU5)** - brown version (white*)  
- Filter class **F6 (EU6)** - green version 
- Filter class **F7 (EU7)** - pink version 
- Filter class **F8 (EU8)** - yellow version 
- Filter class **F9 (EU9)** - white version 

*Without Pocket-Fitting, no 3-layer medium

Versions

- Standard sizes welded and with "Pocket-Fitting"
- Special sizes on request
- Frame types:
Plastic frame (25mm),
Metal frame (20 or 25mm)
- Filters with plastic frame are fully incinerable
- Optional with foamed hygiene-gasket

Material characteristics

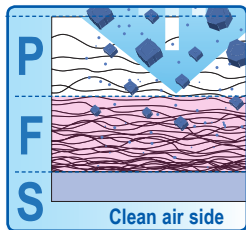
- Tested according to EN 779
- Shatter-proof synthetic fibres, environmentally safe
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame
- Lacquer compatibility according to IPA-control
- Higher density and pressure load due to endless pockets and their edge welding

Benefits of VOLZ Filters



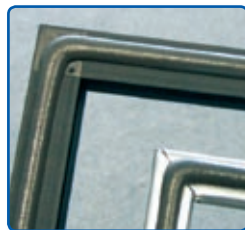
Pocket-Fitting

- Form stability of the single pockets
- Optimal distribution of incoming flow
- Effective use of the filter area
- Optimal pocket opening



3-layer medium

- P: Pre filter grade
- F: Fine filter grade
- S: Synthetic layer on clean air side for stabilization
- Best arrestance
- Low pressure loss
- High dust retention capacity



Hygiene-gasket (optional)

- Hygiene-gasket on pocket filter frame available on the clean air side or on the dust air side
- Abrasion-resistant, silicone-free, closed porous



- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Standard versions pocket filter F5 - F9									
Width x Height		Depth	Number of pockets	Filter area	Pocket-Fitting *3	Width x Height		Depth	Number of pockets
		mm		m ²				mm	
592 x 592 mm *1	360	6	2.9	X		592 x 490 mm *2	360	6	2.5
		8	3.9	X				8	3.2
	380	10	4.8	X			380	10	4.2
		12	5.7	X				12	5.0
	500	6	4.1	X			500	6	3.4
		8	5.4	X			500	8	4.4
	535	10	6.5	X			535	10	5.8
		12	7.8	X				12	6.9
	600	6	4.8	X			600	6	4.0
		8	6.5	X				8	5.2
	635	10	7.6	X			635	10	6.8
		12	9.1	X				12	8.1
490 x 592 mm *1	360	5	2.5	X		592 x 287 mm *2	360	6	1.5
		6	2.9	X				8	2.0
	380	8	3.8	X			380	8	2.1
		10	4.8	X				10	2.5
	500	5	3.4	X			500	6	2.1
		6	4.1	X			500	8	2.7
	535	8	5.2	X			535	8	2.9
		10	6.5	X			535	10	3.5
	600	5	4.0	X			600	6	2.5
		6	4.8	X			600	8	3.2
	635	8	6.1	X			635	8	3.4
		10	7.6	X				10	4.1
287 x 592 mm *1	360	3	1.5	X		287 x 287 mm *2	360	3	0.8
		4	2.0	X				4	1.0
	380	5	2.4	X			380	5	1.3
		6	2.9	X				6	1.5
	500	3	2.0	X			500	3	1.0
		4	2.7	X			500	4	1.3
	535	5	3.2	X			535	5	1.7
		6	3.9	X			535	6	2.1
	600	3	2.4	X			600	3	1.2
		4	3.2	X			600	4	1.6
	635	5	3.8	X			635	5	2.0
		6	4.6	X				6	2.4

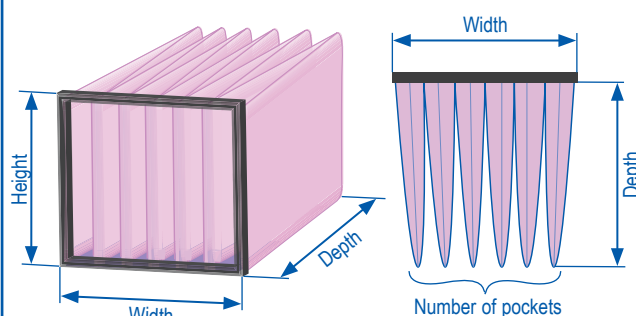
- Plastic frame (25mm), metal frame (20 or 25mm)
- Optional with foamed hygiene-gasket
- Pocket filters with plastic frame must be used holohedral incumbent
- Special sizes and special depths available on request

*1 Standard sizes welded

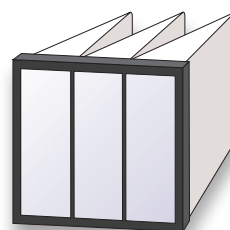
*2 Special sizes stitched

*3 Optional with cover sticks against surcharge

Specification pocket filter



Assembly instruction for correct installation



Correct Installation!
Pockets stand vertically

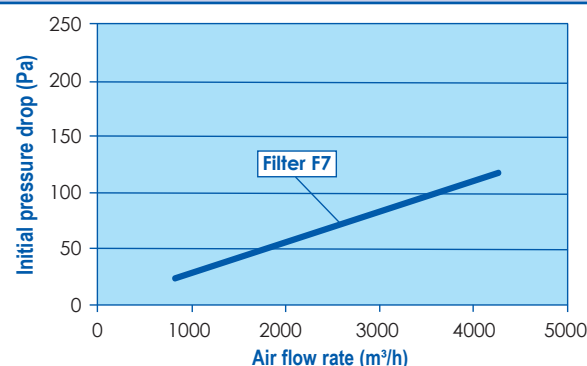


Incorrect Installation!
Pockets lie horizontally! Pockets below running risk of absorbing condensed water

Pocket filter fine filtration; F7 (EU7) 592 x 592 x 600; 8 pockets

Initial pressure drop (Pa)	95	Average arrestance (%)	-
Recommended final pressure drop (Pa)	450	Average efficiency (0.4µm)	80 - 90
Nominal air flow rate (m³/h)	3400	Filter area (m²)	6.5

Graph pocket filter fine filtration F7



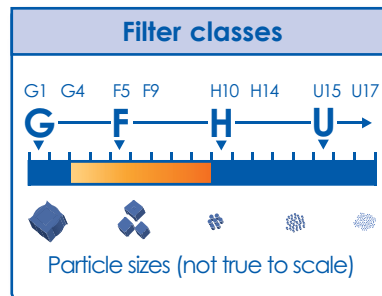
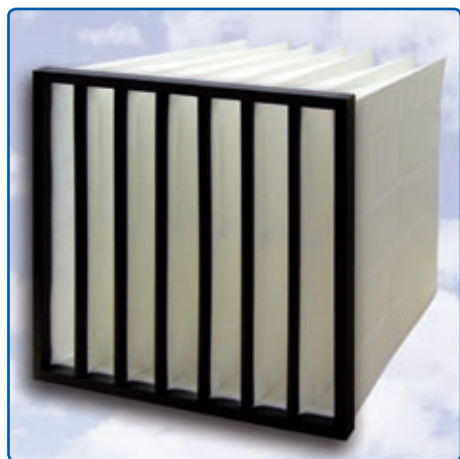
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Robert-Bosch-Straße 25 Phone: +49-(0)7451-5516-0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49-(0)7451-5516-120 www.volzfilters.com

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Pocket filter V-series



Applications

- For high requirements in the air conditioning technology, e.g. offices, hospitals, laboratories, computing center, etc.
- For industrial applications with challenging operating conditions, e.g. paint-spray lines in automotive industry, pharmaceutical industry and food industry
- Prefiltration e.g. for HEPA filters

Classification acc. to EN 779

Polyester:

- V30 G3 (EU3) - version ☐
- V40 G4 (EU4) - version ☐
- V55 F5 (EU5) - version ☐
- V65 F6 (EU6) - version ☐

Meltblown:

- V50 F5 (EU5) - version ☐
- V60 F6 (EU6) - version ☐
- V70 F7 (EU7) - version ☐
- V80 F8 (EU8) - version ☐
- V90 F9 (EU9) - version ☐

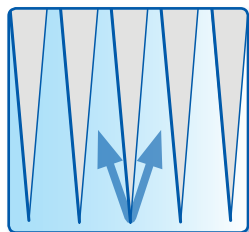
Versions

- Standard sizes welded, with "Pocket-Fitting" and cover sticks
- Frame types:
Plastic frame (25mm),
Metal frame (25mm)
- Filters with plastic frame are fully incinerable
- Optional with foamed hygiene-gasket

Material characteristics

- Tested according to EN 779
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame
- Lacquer compatibility according to IPA-control
- Higher density and pressure load due to endless pockets and their edge welding as well as specific material characteristics

Benefits of VOLZ Filters



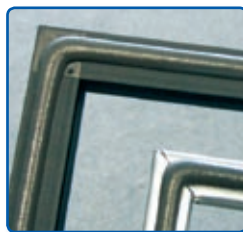
V-shape

- High self-rigidity
- Optimal pocket opening
- Better air-flow
- Optimal and complete dust embedding of pockets



Characteristics

- High dust holding capacity
- High durability
- High pressure load (3500 Pa)
- V55 / V65 specifically suitable for air-circulation mode through reinforcing textile on clean air side



Hygiene-gasket (optional)

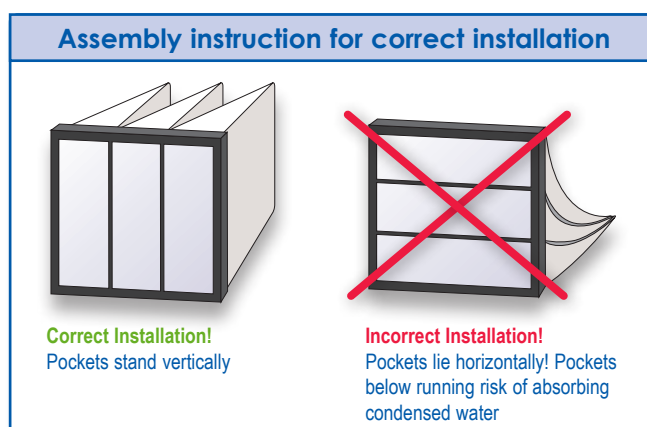
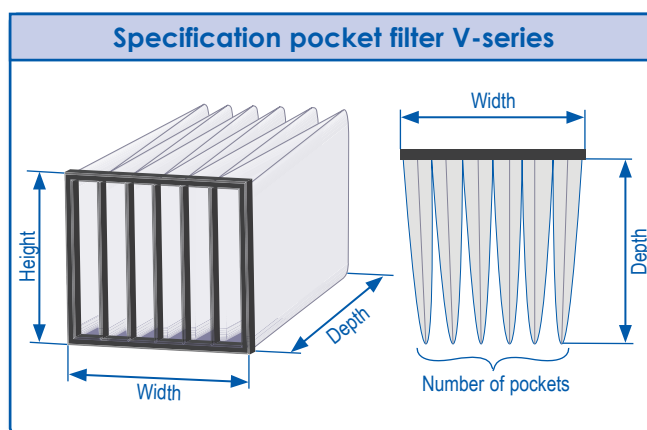
- Hygiene-gasket on pocket filter frame available on the clean air side or on the dust air side
- Abrasion-resistant, silicone-free, closed porous



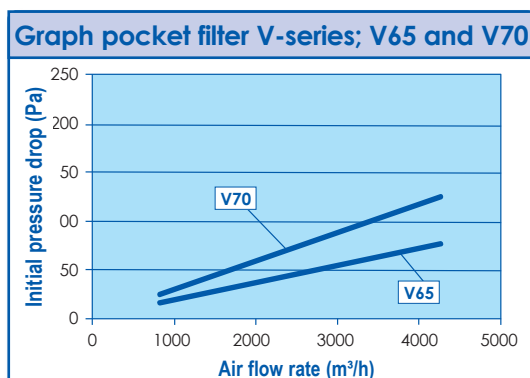
- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Standard versions V-series G3 - F9									
Width	Height	Depth	Number of pockets	Filter area	Width	Height	Depth	Number of pockets	Filter area
mm	mm	mm		m²	mm	mm	mm		m²
V30 G3 (EU3)					V65 F6 (EU6)				
592	592	600	7	5.9	592	592	600	7	5.9
490	592	600	6	5.1	490	592	600	6	5.1
287	592	600	4	3.4	287	592	600	4	3.4
V40 G4 (EU4)					V70 F7 (EU7)				
592	592	600	7	5.9	592	592	600	8	6.8
490	592	600	6	5.1	490	592	600	6	5.1
287	592	600	4	3.4	287	592	600	4	3.4
V50 F5 (EU5)					V80 F8 (EU8)				
592	592	600	8	6.8	592	592	600	8	6.8
490	592	600	6	5.1	490	592	600	6	5.1
287	592	600	4	3.4	287	592	600	4	3.4
V55 F5 (EU5)					V90 F9 (EU9)				
592	592	600	7	5.9	592	592	600	8	6.8
490	592	600	6	5.1	490	592	600	6	5.1
287	592	600	4	3.4	287	592	600	4	3.4
V60 F6 (EU6)									
592	592	600	8	6.8					
490	592	600	6	5.1					
287	592	600	4	3.4					

- Plastic frame (25mm), metal frame (25mm)
- Pocket filters with plastic frame must be used holohedral incumbent
- Optional with foamed hygiene-gasket



Pocket filter V-series V65; F6 (EU6) 592 x 592 x 600; 7 pockets			
Initial pressure drop (Pa)	60	Average arrestance (%)	–
Recommended final pressure drop (Pa)	450	Average efficiency (0.4µm)	60 - 80
Nominal air flow rate (m³/h)	3400	Filter area (m²)	5.9

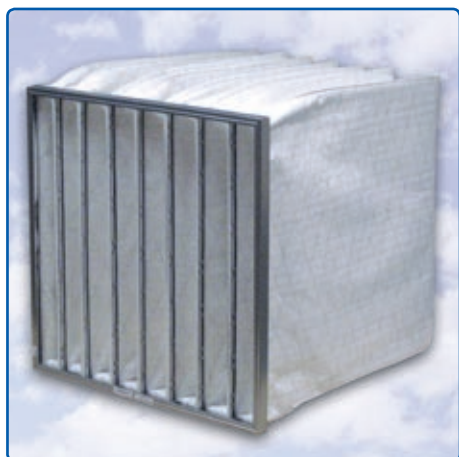


Pocket filter V-series V70; F7 (EU7) 592 x 592 x 600; 8 pockets			
Initial pressure drop (Pa)	100	Average arrestance (%)	–
Recommended final pressure drop (Pa)	450	Average efficiency (0.4µm)	80 - 90
Nominal air flow rate (m³/h)	3400	Filter area (m²)	6.8

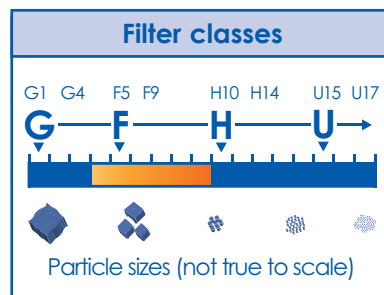
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Robert-Bosch-Straße 25 Phone: +49-(0)7451-5516-0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49-(0)7451-5516-120 www.volzfilters.com

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Pocket filter Ex-Protect



Applications

For the air filtration in aerial engineering plants with dangerous, combustible atmospheres (mixtures from air and burnable gases or steams)

- Application for Gas-Ex-Protection Ex II 2 G / II A - II C (X)
- Application for zones 1 and 2 (DIN EN 1127 1127-1)
- Application for solvent of explosion group II A - II C (X)

Classification acc. to EN 779

- Filter class **G4 (EU4)** - white version
- Filter class **F5 (EU5)** - brown / white version
- Filter class **F6 (EU6)** - green version
- Filter class **F7 (EU7)** - pink version
- Filter class **F8 (EU8)** - yellow version
- Filter class **F9 (EU9)** - white version



Versions

- Synthetic fibres with metal-clutch
- Standard sizes stitched
- With galvanized metalframe (inner and outer frame)
- Available in three earthing versions:
 - with grounding flag
 - with grounding pin
 - without earthing
- Optional with foamed hygiene-gasket

Material characteristics

- Tested according to EN 779
- Shatter-proof synthetic fibres
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame
- Technical filter check conducted by TÜV Industrie Service GmbH acc. to Guideline 94/9/EG

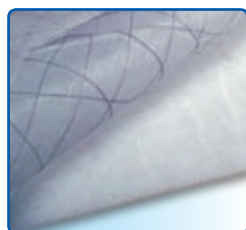


Benefits of VOLZ Filters



Conform to ATEX-guideline

- No filter charging
- Declaration of manufacturer is delivered with each filter



Multi-layer medium

- With integrated metal-clutch
- Electroconductiv medium



Hygiene-gasket (optional)

- Hygiene-gasket on pocket filter frame available on the clean air side or on the dust air side
- Abrasion-resistant, silicone-free, closed porous



- Utility pattern protection
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

Standard versions Ex-Protect G4 - F9															
Width x Height		Depth		Number of pockets		Filter area		Width x Height		Depth		Number of pockets		Filter area	
		mm				m²				mm				m²	
G4 - F5 (Polyester)															
287 x 592 mm	360	2	1.0	490 x 592 mm	360	4	2.0	592 x 592 mm	360	4	2.1				
		4	1.9			5	2.3			6	2.7				
	380	2	1.1		380	4	2.1		380	4	2.2				
		4	2.0			5	2.6			6	3.1				
	500	2	1.4		500	4	2.7		500	4	2.8				
		4	2.6			5	3.2			6	3.9				
	535	2	1.5		535	4	2.9		535	4	3.0				
		4	2.8			5	3.6			6	4.3				
	600	2	1.7		600	4	3.2		600	4	3.3				
		4	3.1			5	3.8			6	4.5				
	635	2	1.7		635	4	3.4		635	4	3.5				
		4	3.3			5	4.2			6	5.1				
F5 - F9 (Meltblown)															
287 x 592 mm	360	3	1.5	490 x 592 mm	360	5	2.5	592 x 592 mm	360	6	2.9				
		4	2.0			6	2.9			8	3.9				
	380	5	2.4		380	8	3.8		380	10	4.8				
		6	2.9			10	4.8			12	5.7				
	500	3	2.0		500	5	3.4		500	6	4.1				
		4	2.7			6	4.1			8	5.4				
	535	5	3.2		535	8	5.2		535	10	6.5				
		6	3.9			10	6.5			12	7.8				
	600	3	2.4		600	5	4.0		600	6	4.8				
		4	3.2			6	4.8			8	6.5				
	635	5	3.8		635	8	6.1		635	10	7.6				
		6	4.6			10	7.6			12	9.1				
<div><div>▪ Special sizes on request</div><div>▪ Optional with foamed hygiene-gasket</div><div>▪ Detailed technical report of a conformity procedure according to guideline 94/9/EG on request</div></div>															

Pocket filter Ex-Protect; F7 (EU7) 592 x 592 x 600; 8 pockets			
Initial pressure drop (Pa)	110	Average arrestance (%)	–
Recommended final pressure drop (Pa)	450	Average efficiency (0,4µm) (%)	80 - 90
Nominal air flow rate (m³/h)	3400	Filter area (m²)	6.5

Specification and earthing versions

Available in three earthing versions:

- with grounding flag
- with grounding pin
- without earthing

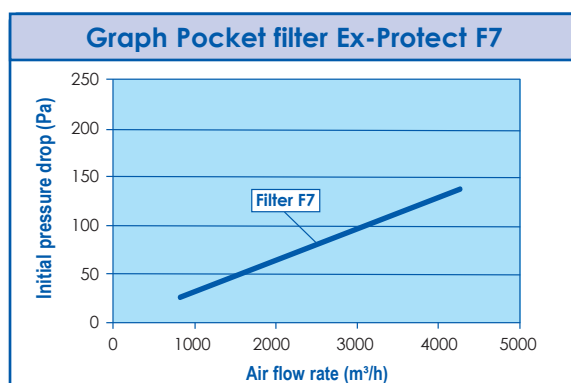
Grounding flag

Grounding pin (M6)

Assembly instruction for correct installation

Correct Installation!
Pockets stand vertically

Incorrect Installation!
Pockets lie horizontally! Pockets below running risk of absorbing condensed water



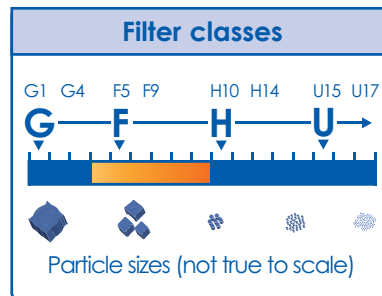
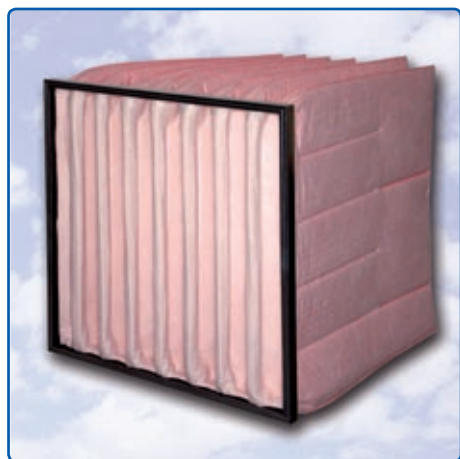
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Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Pocket filter Biostat



Applications

- For the supply air and circulating air filtration in air conditioning plants like offices and production plants
- Requirements with high hygienic demands
- Requirements to fulfil VDI 6022
- For high humidity and demanding environmental requirements

Classification acc. to EN 779

- Filter class **F5 (EU5)** - brown / white version
- Filter class **F6 (EU6)** - green version
- Filter class **F7 (EU7)** - pink version
- Filter class **F8 (EU8)** - yellow version
- Filter class **F9 (EU9)** - white version



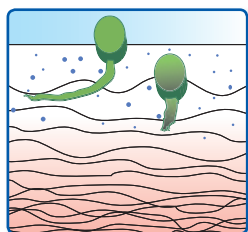
Versions

- Standard sizes welded
- Special sizes on request
- Frame types:
Plastic frame (25mm),
Metal frame (20 or 25mm)
- Filters with plastic frame are fully incinerable
- Optional with foamed hygiene-gasket
- "Pocket-Fitting" for filter class F5-F9 (not F5 white)

Material characteristics

- Tested according to EN 779
- Shatter-proof synthetic fibres, environmentally safe
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame
- Higher density and pressure load due to endless pockets and their edge welding

Benefits of VOLZ Filters



Biostatic equipment

- The active ingredient is located within synthetic fibres and is no biocide
- The active ingredient prevents growth of bacteria during complete product life of the filter
- The active ingredient is safe for appliance and is not released by the filters



Efficiency- and sustainability certificate

- Efficiency tested during a 12 months testing period
- Certificate shows biostatic efficiency and sustainability according to DAB
- Certification through ATW-IVENSYS GmbH and SAS Hagmann GmbH



No growth of bacteria

- Bacteria, mildew, barn and fungus are prevented from growing and spreading - risk of filter being a source of contamination is reduced



- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances

Standard versions Biostat F5 - F9																			
Width x Height		Depth		Number of pockets		Filter area		Pocket-Fitting ^{*3}		Width x Height		Depth		Number of pockets		Filter area		Pocket-Fitting ^{*3}	
	mm			m²			mm		m²			mm			m²				
F5 (Polyester)																			
592 x 592 mm ^{*1}	360	4	2.1	-	592 x 490 mm ^{*2}	360	4	1.7	-	592 x 287 mm ^{*2}	360	4	1.1		592 x 287 mm ^{*2}	360	4	1.1	
		6	2.7	-				6	1.4										
	500	4	2.8	-			4	2.4	-			4	1.5	-			4	1.5	-
		6	3.9	-			8	4.4	-			6	2.0	-			6	2.0	-
	600	4	3.3	-			4	2.8	-			4	1.8	-			4	1.8	-
		6	4.5	-			8	5.2	-			6	2.2	-			6	2.2	-
490 x 592 mm ^{*1}	360	4	2.0	-	287 x 592 mm ^{*1}	360	2	1.0	-	287 x 287 mm ^{*2}	360	2	0.5	-	287 x 287 mm ^{*2}	360	2	0.5	-
		5	2.3	-				4	1.9			-		3			0.7	-	
	500	4	2.7	-			2	1.4	-			2	0.7	-			2	0.7	-
		5	3.2	-			4	2.6	-			3	1.0	-			3	1.0	-
	600	4	3.2	-			2	1.7	-			2	0.9	-			2	0.9	-
		5	3.8	-			4	3.1	-			3	1.1	-			3	1.1	-
F5 - F9 (Meltblown)																			
592 x 592 mm ^{*1}	360	6	2.9	X	592 x 490 mm ^{*2}	360	6	2.5	-	592 x 287 mm ^{*2}	360	6	1.5	-	592 x 287 mm ^{*2}	360	6	1.5	-
		8	3.9	X				8	3.2			-		8			2.0	-	
	380	10	4.8	X			10	4.2	-			10	3.5	-			10	3.5	-
		12	5.7	X			12	5.0	-			12	4.5	-			12	4.5	-
	500	6	4.1	X			6	3.4	-			6	2.1	-			6	2.1	-
		8	5.4	X			8	4.4	-			8	2.7	-			8	2.7	-
	535	10	6.5	X			10	5.8	-			10	4.8	-			10	4.8	-
		12	7.8	X			12	6.9	-			12	6.2	-			12	6.2	-
	600	6	4.8	X			6	4.0	-			6	2.5	-			6	2.5	-
		8	6.5	X			8	5.2	-			8	3.2	-			8	3.2	-
	635	10	7.6	X			10	6.8	-			10	5.5	-			10	5.5	-
		12	9.1	X			12	8.1	-			12	6.5	-			12	6.5	-
490 x 592 mm ^{*1}	360	5	2.5	X	287 x 592 mm ^{*1}	360	3	1.5	X	287 x 287 mm ^{*2}	360	3	0.8	-	287 x 287 mm ^{*2}	360	3	0.8	-
		6	2.9	X				4	2.0			X		4			1.0	-	
	380	8	3.8	X			8	3.0	X			8	2.0	-			8	2.0	-
		10	4.8	X			10	4.0	X			10	3.0	-			10	3.0	-
	500	5	3.4	X			5	2.5	X			5	1.5	-			5	1.5	-
		6	4.1	X			6	3.2	X			6	2.0	-			6	2.0	-
	535	8	5.2	X			8	4.0	X			8	2.5	-			8	2.5	-
		10	6.5	X			10	5.0	X			10	3.5	-			10	3.5	-
	600	5	4.0	X			6	3.9	X			6	2.1	-			6	2.1	-
		6	4.8	X			8	5.2	X			8	3.0	-			8	3.0	-
	635	8	6.1	X			10	6.5	X			10	4.0	-			10	4.0	-
		10	7.6	X			12	8.1	X			12	4.5	-			12	4.5	-

▪ Pocket filters with plastic frame must be used holohedral incumbent

▪ Special sizes and special depths available on request

^{*1} Standard sizes welded

^{*2} Special sizes stitched

^{*3} Optional with cover sticks against surcharge

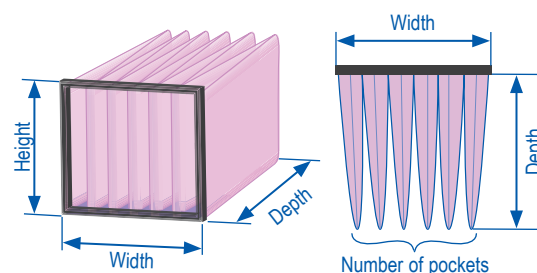
- Pocket filters with plastic frame must be used holohedral incumbent
- Special sizes and special depths available on request

*1 Standard sizes welded

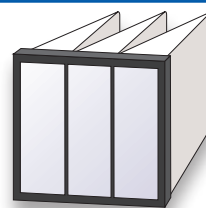
*2 Special sizes stitched

*3 Optional with cover sticks against surcharge

Specification pocket filter Biostat



Assembly instruction for correct installation



Correct Installation!
Pockets stand vertically

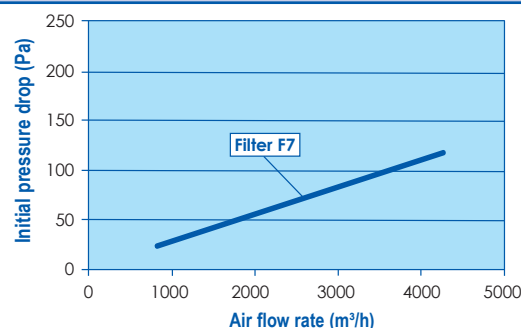


Incorrect Installation!
Pockets lie horizontally! Pockets below running risk of absorbing condensed water

Pocket filter Biostat; F7 (EU7) 592 x 592 x 600; 8 pockets

Initial pressure drop (Pa)	95	Average arrestance (%)	-
Recommended final pressure drop (Pa)	450	Average efficiency (0.4µm)	80 - 90
Nominal air flow rate (m³/h)	3400	Filter area (m²)	6.5

Graph pocket filter Biostat F7

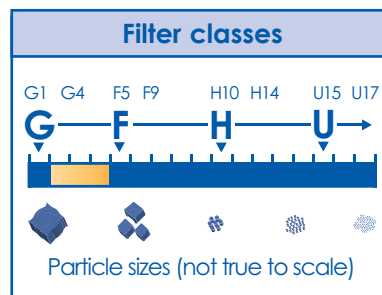


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Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Pre filtration mats



Applications

For pre filtration in aerial engineering devices of all kinds

- Heat ventilation and air conditioning devices
- Prefiltration in air-conditioning systems
- Prefiltration for painting and drying plants

Classification acc. to EN 779

- Filter class **G2 (EU2)**
- Filter class **G3 (EU3)**
- Filter class **G4 (EU4)**

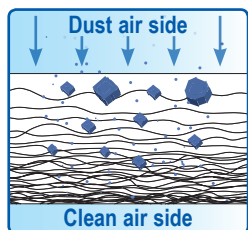
Versions

- Standard mats 20 x 2m and 40 x 2m (depending on type)
- Precuts for finished dimensions
- Stamp pieces in various dimensions available
- Also available as filter tube or filter bag

Material characteristics

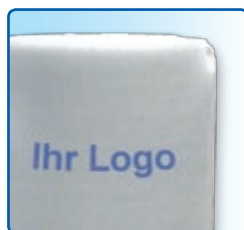
- Tested according to EN 779
- Shatter-proof synthetic fibres
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C
- Contains no silicone or other lacquer harming substances

Benefits of VOLZ Filters



Progressive structure

- The filter medium is compressed towards clean air side and takes full depth of fibrous web for dust absorption



Special prints

- Special prints are possible depending on certain quantities



Special precuts

- Special sizes are available for rolls and precuts depending on purchase quantity



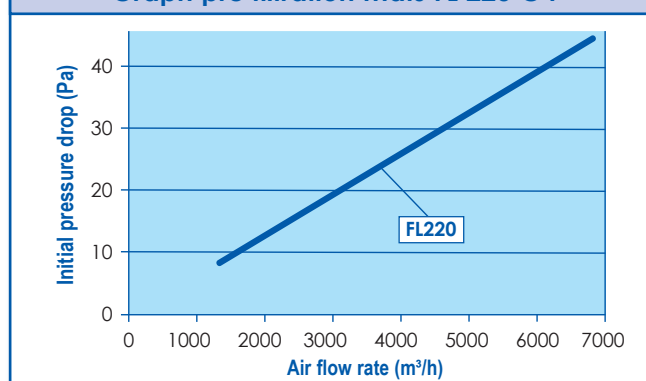
- Filter medium is produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Versions pre filtration mats G2 - G4

Product	Filter classes	Material thickness approx.	Surface weight approx.	Initial pressure drop *	Recommended final pressure drop	Nominal air flow rate	Air velocity	Average arrestance
		mm	g / m ²	Pa / m ²	Pa / m ²	m ³ / h / m ²	m / s	%
FL100	G2	5	100	20	250	5400	1.5	65 - 80
FL150	G2	10	150	25	250	5400	1.5	65 - 80
FL200	G3	20	200	35	250	5400	1.5	80 - 90
FL220	G4	22	220	35	250	5400	1.5	≥ 90
V15/350	G4	18	280	50	250	5400	1.5	≥ 90
V15/400	G4	22	350	60	250	5400	1.5	≥ 90
EA30	G4	30	350	60	250	5400	1.5	≥ 90
EA40	G4	40	400	60	250	5400	1.5	≥ 90
EA50	G4	50	450	65	250	5400	1.5	≥ 90

*plane tested

Graph pre filtration mats FL 220 G4



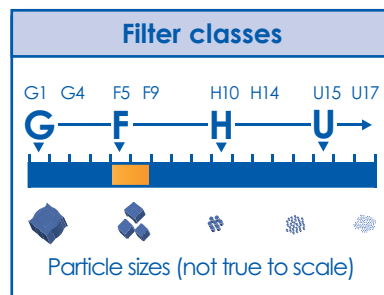
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Fine filtration mats



Applications

- For general industrial paintings (V300S, V400S)
- For final filtration of supply air in painting and paint-spraying units (V500S, V600G, V5micron)

Classification acc. to EN 779

- Filter class **F5 (EU5)**
- Filter class **F6 (EU6)**

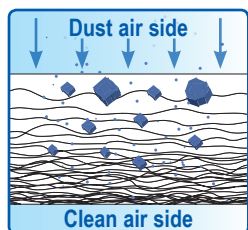
Versions

- Standard rolls 20 x 2m
- Precuts for finished dimension
- Precuts are packed under clean room conditions

Material characteristics

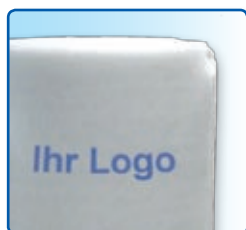
- Tested according to EN 779
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 80°C
- Contains no silicone or other lacquer harming substances

Benefits of VOLZ Filters



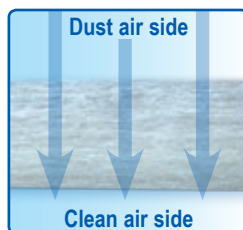
Progressive structure

- The filter medium is compressed towards clean air side and takes the full depth of fibrous web for dust absorption



Special prints

- Special prints are possible depending on certain quantities



High performance medium

- V500S, V600G and V5micron are additionally impregnated with dust adhesive
- Polyester-textile on clean air side gives V600G and V5micron a higher stability



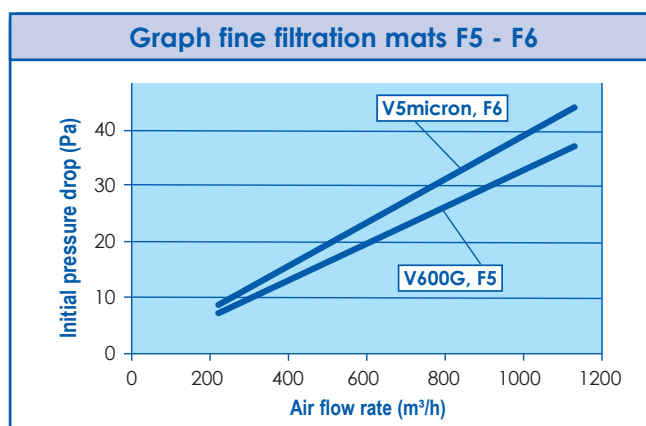
- Filter media is produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Environment-friendly and easily disposable

Versions fine filtration mats F5 - F6

Product	Filter class	Material thickness approx.	Surface weight approx.	Initial pressure drop *	Recommended final pressure drop	Nominal air flow rate	Air velocity	Average arrestance on 0.4 µm
		mm	g / m ²	Pa / m ²	Pa / m ²	m ³ / h / m ²	m / s	%
V300S	F5	15	300	15	450	900	0.25	40 - 60
V400S	F5	20	400	20	450	900	0.25	40 - 60
V500S	F5	25	550	25	450	900	0.25	40 - 60
V600G	F5	25	650	30	450	900	0.25	40 - 60
V5micron	F6	25	750	35	450	900	0.25	60 - 80

*plane tested

Graph fine filtration mats F5 - F6



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Robert-Bosch-Straße 25 Phone: +49-(0)7451-5516-0 info@volzfilters.com
D-72160 Horb am Neckar Fax: +49-(0)7451-5516-120 www.volzfilters.com

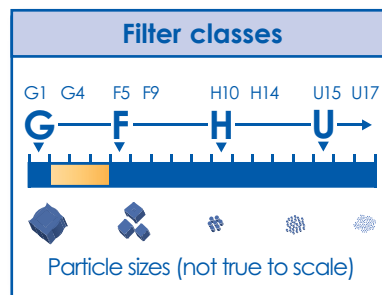
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Glass fibre mats



Dust-Stop (yellow)

Paint-Stop (green)



Applications

Paint-Stop (green):

For use in separation of ink mist in paint shops and colour spraying cabins

- In automotive industry
- Manufacturing plants for furniture, windows, machines, etc.

Dust-Stop (yellow):

For separation of dry dust types

- In carpenters' workshops, metal working industry, etc.

Classification acc. to EN 779

- Filter class **G2 (EU2)** - green version
- yellow version
- Filter class **G3 (EU3)** - green version
- yellow version
- Filter class **G4 (EU4)** - green version
- yellow version



Versions

- Standard rolls e.g. 20 x 1m and 20 x 2m
- Special sizes on request
- Precuts for finished dimensions
- **Information concerning disposal:**
The disposal is subject to local restrictions. Depending on separated substances, used filter-medium has to be dried and disposed

Material characteristics

Paint-Stop (green):

- Temperature resistant up to max. 180°C
- Contains no silicone or other lacquer harming substances

Dust-Stop (yellow):

- Temperature resistant up to max. 80°C
- Additionally impregnated with antibacterial dust adhesive
- Contains no silicone

Benefits of VOLZ Filters



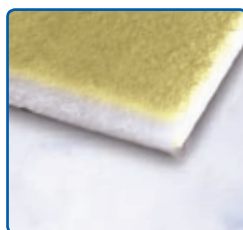
Shape elastic fibre structure

- The low compressibility of inordinately bedded glass fibres prevents the used medium from becoming compressed and enhances a higher separation



Paint-Stop (green)

- Separates ink mist from exhausted air. Thereby, exhaust air channels, fans and motors are protected from paint deposits. For identification reasons, dust air side is coloured green



Dust-Stop (yellow)

- Medium is additionally impregnated with an antibacterial dust adhesive. For identification reasons, dust air side is coloured yellow



- Glass fibre mats are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

Standard versions glass fibre mats G2 – G4

Product	Filter classes	Material thickness approx.	Roll length*	Roll width*
		mm	m	m
Paint-Stop (green) 2"	G2 (EU2)	50	20 / 25 / 80 / 91	2.0 / 1.0 / 0.7 / 0.5
Paint-Stop (green) 3"	G3 (EU3)	70	20 / 25 / 80 / 91	2.0 / 1.0 / 0.7 / 0.5
Paint-Stop (green) 4"	G4 (EU4)	100	20 / 25	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 1"	G2 (EU2)	25	20	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 2"	G3 (EU3)	50	20	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 4"	G4 (EU4)	100	20	2.0 / 1.0 / 0.7 / 0.5

* further dimensions on request

Glass fibre mat G3

Product	Colour	Material thickness approx.	Initial pressure drop	Recommended final pressure drop	Nominal air flow rate	Lacquer separation arrestance*
		mm	Pa	Pa	m ³ / h / m ²	%
Paint-Stop 3"	green	70	4 - 10	80	2500 - 6300	95

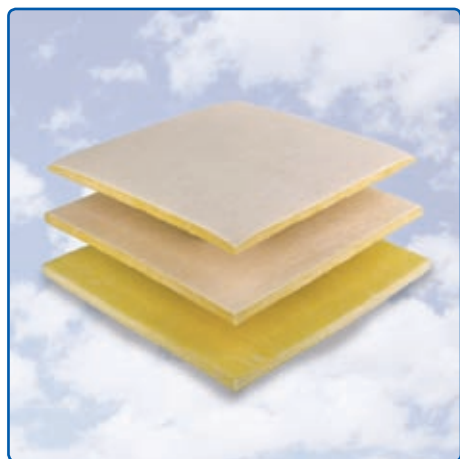
The measured data relates to 1m² filter-surface

* The lacquer separation arrestance depends on the kind of lacquer, ink mist or environmental conditions like temperature or pressure in paint cabin

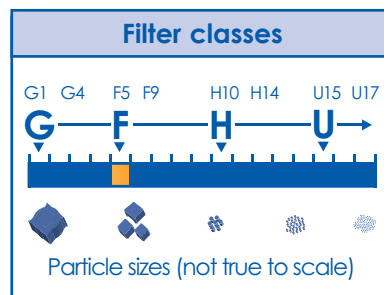
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HT-glass fibre mats



Applications

- Especially for final filtration of supply air in painting- and drying units

Classification acc. to EN 779

- Filter class **F5 (EU5)** - yellow version



Versions

- Precuts with max. 10m length and 1.5m width
- Precuts for finished dimensions
- Also available as filterpack

Material characteristics

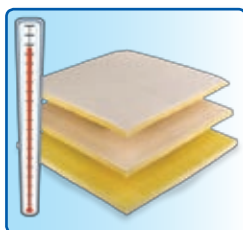
- Tested according to EN 779
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 200°C
- Contains no silicone or other lacquer harming substances

Benefits of VOLZ Filters



Backing

- GV180K
clean air side is enforced with synthetic fibre fleece
- GV180G
clean air side is enforced with glass fibre fleece
- DB200/0
clean air side with glass supporting tissue



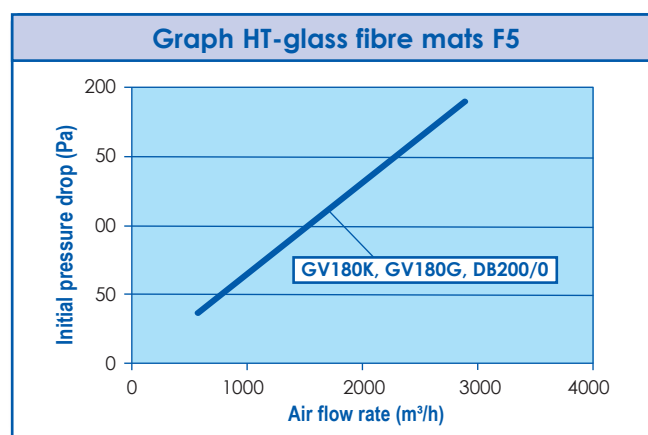
Temperature resistance

- GV180K - up to max. 150°C
- GV180G - up to max. 200°C
- DB200/0 - up to max. 200°C



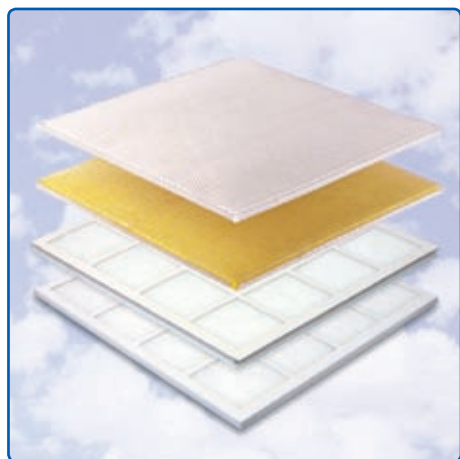
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

Versions HT-glass fibre mats F5								
Product	Filter class	Material thickness approx.	Initial pressure drop	Recommended final pressure drop	Nominal air flow rate	Air velocity	Average efficiency (0,4µm)	Temperature resistance
		mm	Pa	Pa	m ³ / h / m ²	m / s	%	°C
GV180K	F5	19	150	600	2300	0.63	40 - 60	150
GV180G	F5	19	150	600	2300	0.63	40 - 60	200
DB200/0	F5	19	150	600	2300	0.63	40 - 60	200

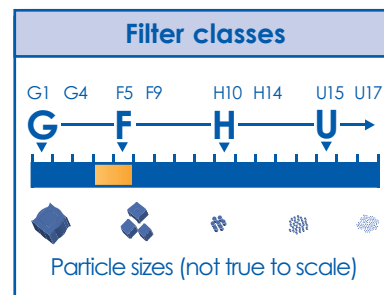

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Filterpacks



Applications

- AL200 and UG300
as HT-ceiling filter cassettes in painting-
and drying units
- SK100 and ZH120
for the final filtration in painting units with
cassette-clamping systems

Classification acc. to EN 779

- UG300 - filter class **G4 (EU4)** - white version ☐
- AL200 - filter class **F5 (EU5)** - yellow version ☒
- ZH120 - filter class **F5 (EU5)** - white version ☐
- SK100 - filter class **F5 (EU5)** - white version ☐

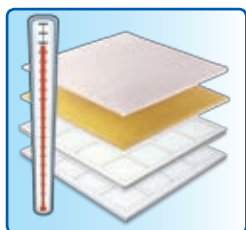
Versions

- UG300 dimension 480 x 480 x 14 mm
with double-sided aluminium expanded mesh
- AL200 dimension 480 x 480 x 14 mm
with double-sided aluminium expanded mesh
- ZH120 dimension 480 x 480 x 20 mm (standard gauge)
- SK100 dimension 480 x 480 x 14 mm
- SK100/ZH120 dimension 480 x 480 x 14 mm with rigid
cardboard framework on the clean air side and fiberglass
on the dust air side
- Other dimensions see next page

Material characteristics

- Tested according to EN 779
- Humidity resistant up to 100% r. h.
- SK100 / ZH120 synthetic medium
- AL200 / UG300 glass fibre medium
- Contains no silicone

Benefits of VOLZ Filters



Temperatur- beständigkeit

- SK100 - up to max. 100°C
- ZH120 - up to max. 120°C
- AL200 - up to max. 200°C
- UG300 - up to max. 300°C



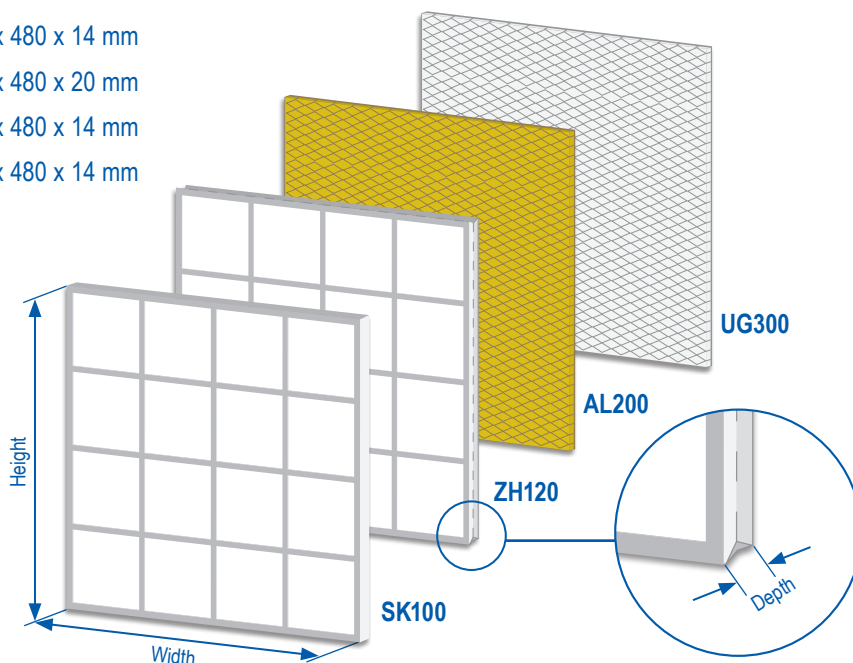
- Filter products are produced
in Germany
- Quality control of the
complete production
with internal filter test
equipment and modern
quality-management-tools

Standard versions filterpacks G4 - F5

- **SK100:** dimension 480 x 480 x 14 mm
- **ZH120:** dimension 480 x 480 x 20 mm
- **AL200:** dimension 480 x 480 x 14 mm
- **UG300:** dimension 480 x 480 x 14 mm

Special dimensions
UG300:

- 610 x 610 x 14 mm
- 595 x 595 x 14 mm
- 472 x 472 x 14 mm
- 240 x 480 x 14 mm

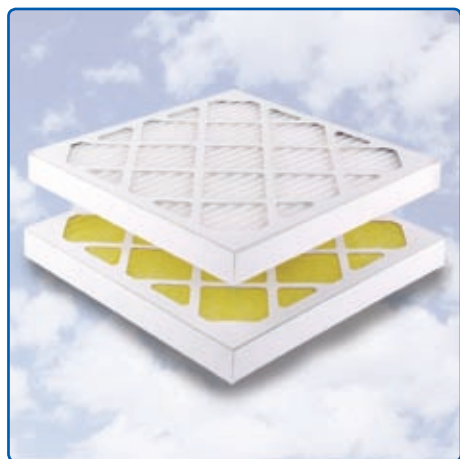

Details for dimension 480 x 480 mm

Product	Filter class	Depth	Initial pressure drop	Recommended final pressure drop	Nominal air flow rate	Average arrestance	Average efficiency (0,4µm)
		mm	Pa	Pa	m ³ / h / m ²	%	%
UG300	G4	14	70	250	1000	≥ 90	-
SK100	F5	14	50	250	350	-	40 - 60
ZH120	F5	20	60	250	350	-	40 - 60
AL200	F5	14	65	250	350	-	40 - 60

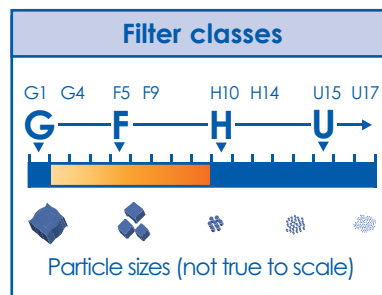
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Frame filter



Applications

- For pre- and fine dust filtration in
- Aerial engineering plants and devices of all kinds
- Air conditioning and paint shops

Classification acc. to EN 779

- Panel filter **G2 (EU2)**
- Panel filter **G3 (EU3)**
- Panel filter **G4 (EU4)**
- Panel filter **F5 (EU5)**
- Z-Line **G4 (EU4)**
- Z-Line **F5 (EU5)**
- Z-Line **F6 (EU6)**
- Z-Line **F7 (EU7)**
- Z-Line **F8 (EU8)**
- Z-Line **F9 (EU9)**

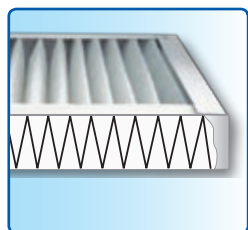
Versions

- Standard sizes with stamped cardboard frame
- Special sizes on request
- Frame types: cardboard frame, galvanized metal frame, aluminium frame, plastic frame
- Panel filters also available as "Dust-Stop" version
- Optional with gasket
- Z-Line versions with fine filtration media are additionally equipped with metal expanded mesh on clean air side

Material characteristics

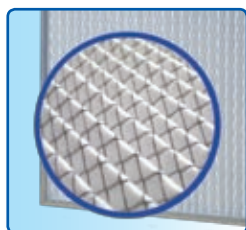
- Tested according to EN 779
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame

Benefits of VOLZ Filters



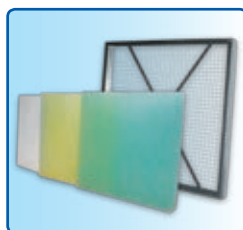
Z-line characteristics

- Big filter area in small required space



Z-line Ex-Protect

- Z-line is also available as Ex-Protect version for aerial engineering plants of Ex-Schutz zones 1 and 2 (only metal frame)
- With metal expanded mesh on both sides
- Electroconductive medium



Combination possible

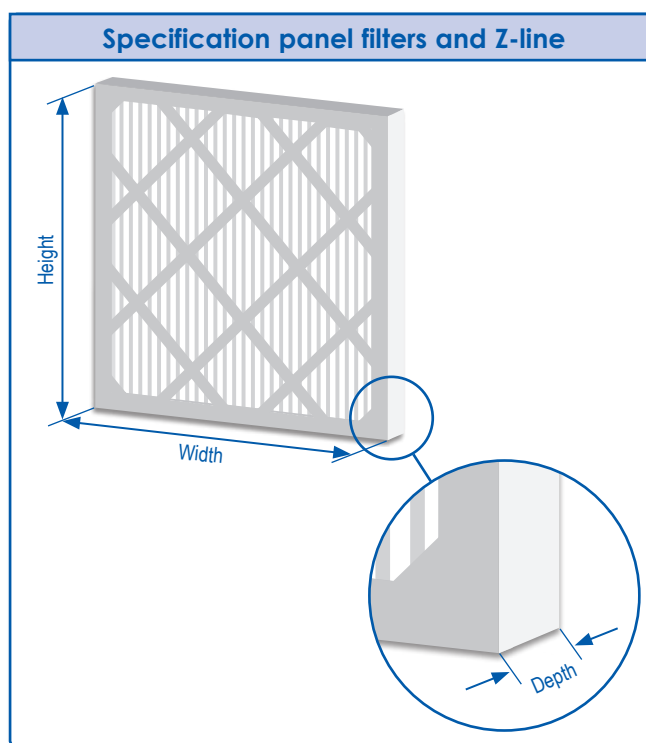
- Changing frame (only metal frame) can be used with several filter mats



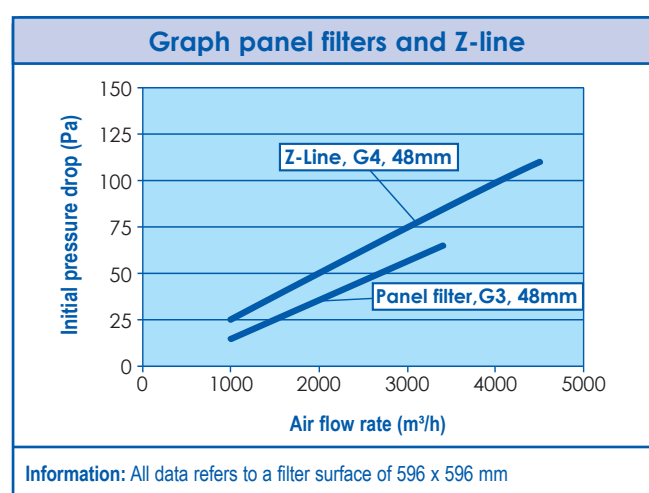
- Filter media is produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

Standard versions frame filter G2 - F9			
Width x Height	Depth	Filter area panel filter	Filter area Z-line
	mm	m ²	m ²
292 x 596 mm	24**	0.17	*
	48	0.17	0.6
	96	0.17	1.0
393 x 495 mm	24**	0.19	*
	48	0.19	0.7
	96	0.19	1.3
393 x 622 mm	24**	0.24	*
	48	0.24	0.9
	96	0.24	1.3
495 x 495 mm	24**	0.25	*
	48	0.25	0.9
	96	0.25	1.7
495 x 622 mm	24**	0.31	*
	48	0.31	1.1
	96	0.31	1.7
596 x 596 mm	24**	0.36	*
	48	0.36	1.3
	96	0.36	2.0

▪ Panel filter: G2 (EU2) - F5 (EU5)
 ▪ Z-Line: G4 (EU4) - F9 (EU9)
 * Special sizes on request
 ** Cardboard frames with 24 mm
 Other frame types with 25 mm



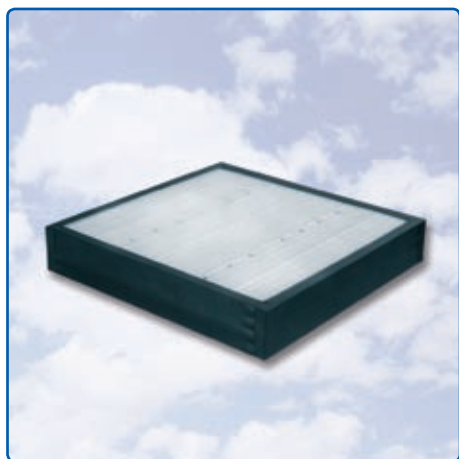
Panel filter Dust-Stop 596 x 596 x 48mm; G3 (EU3)		Z-line - filter 596 x 596 x 48mm; G4 (EU4)	
Initial pressure drop (Pa)	35	Initial pressure drop (Pa)	85
Recommended final pressure drop (Pa)	250	Recommended final pressure drop (Pa)	250
Nominal air flow rate (m ³ /h)	2000	Nominal air flow rate (m ³ /h)	3400
Average arrestance (%)	80 - 90	Average arrestance (%)	≥ 90



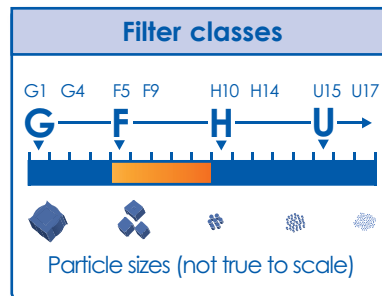
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CompaPleat



Applications

- For filtration in aerial engineering plants of all kinds
- Offices, hospitals, computer centers
- Pharmaceutical industry, fine mechanics and food industry
- Prefiltration, e.g. for HEPA filters
- High air flow rates, small heights, applicable in limited spaces especially for compact devices

Classification acc. to EN 779

- Filter class **F5 (EU5)**
- Filter class **F6 (EU6)**
- Filter class **F7 (EU7)**
- Filter class **F8 (EU8)**
- Filter class **F9 (EU9)**

Versions

- Frame types:
plastic frame, plastic frame with header, cardboard frame, galvanized steel frame
- Other frame types on demand
- Plastic and cardboard frames are fully incinerable
- Optional with foamed hygiene-gasket
- Optional in biostatic version
- Standard sizes see next page
- Special sizes on request

Material characteristics

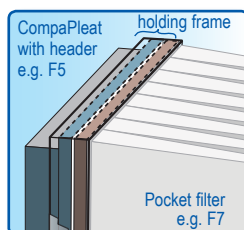
- Tested according to EN 779
- Shatter-proof synthetic fibres
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 80°C depending on type of frame
- Lacquer compatibility according to IPA-control

Benefits of VOLZ Filters



Characteristics

- Big filter area in small required space
- High dust holding capacity
- Long durability



Combined filter

- Two filter classes can be combined in one holding frame
- Saves costs and space
- Easy to use



Hygiene-gasket (optional)

- Hygiene-gasket on CompaPleat frame available on clean air side or on dust air side
- Abrasion-resistant, contains no silicone, closed porous

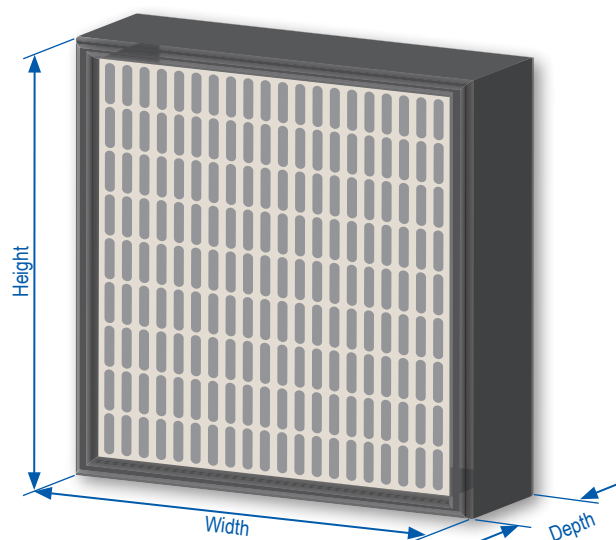


- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Standard versions CompaPleat F5 - F9

Width	Height	Depth	Filter area	Nominal air flow rate
mm	mm	mm	m²	m³/h
592	592	48	5.5	2500
490	592	48	4.5	2075
287	592	48	2.75	1250
592	592	96	7.5	3350
490	592	96	6.0	2775
287	592	96	3.5	1675

Information: Width dimension and height dimension are interchangeable. All values according to EN 779


Frame example CompaPleat

Depending on application or usage, it is possible to choose the frame model depending on individual requirements



version with
metal frame



version with
plastic frame



version with
plastic frame and
header (only in 96mm)



special version with
aluminium frame

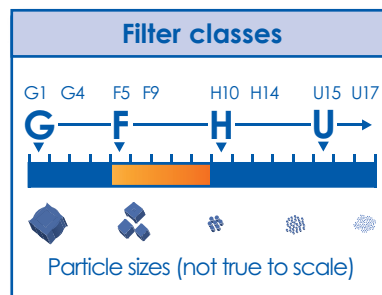
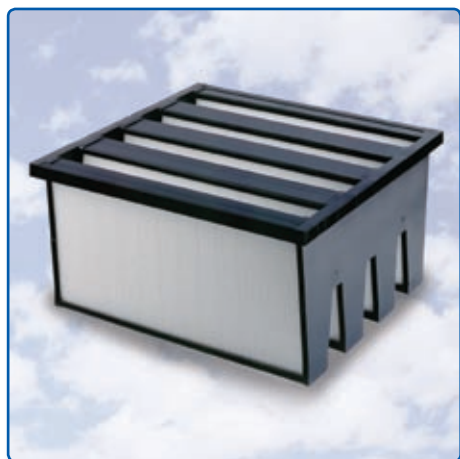
Information: For "CompaPleat with header" version, description "header at clean air side" or "header at dust air side" is necessary

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Compact filter



Applications

- For filtration in aerial engineering plants of all kinds
- Offices, hospitals, computer centers
- Pharmaceutical industry, fine mechanics and food industry
- Prefiltration, e.g. for HEPA filters
- For high air flow rates and a long durability

Classification acc. to EN 779

- Filter class **F5 (EU5)**
- Filter class **F6 (EU6)**
- Filter class **F7 (EU7)**
- Filter class **F8 (EU8)**
- Filter class **F9 (EU9)**

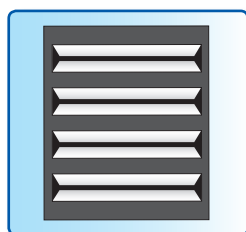
Versions

- All frame components are made from plastic
- Optional in biostatic version
- Optional with gasket
- Fully incinerable version

Material characteristics

- Tested according to EN 779
- Secure installation through shatter-proof synthetic fibres
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 60°C
- Lacquer compatibility according to IPA-control

Benefits of VOLZ Filters



Form stability

- Extremely stable welded casing



Filter package

- Big filter area in small required space
- High dust holding capacity
- Long durability
- High performance fleece
- High pressure load (3500 Pa)



- Filter medium is produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Standard versions compact filter F5 - F9

Width	Height	Depth	Filter surface
mm	mm	mm	m ²
592	592	292	19
490	592	292	15
287	592	292	9.5

Width

Height

Depth

25 mm

Recommended installation for 592 x 592 x 292 mm*

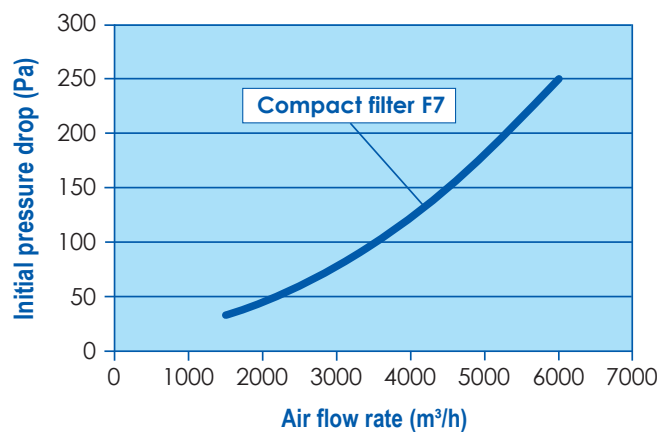
*With temperatures up to 60 °C

Compact filter; F7 (EU7)
592 x 592 x 292 mm; 8 filter packs

Nominal air flow rate (Pa)	3400	5000
Initial pressure drop (Pa)	95	180
Recommended final pressure drop (Pa)	650	
Average efficiency (0.4µm) (%)	80 - 90	
Filter area (m ²)	19	

Information: The recommended final pressure drop for compact filters is 650 Pa (filter classes F5 - F9)

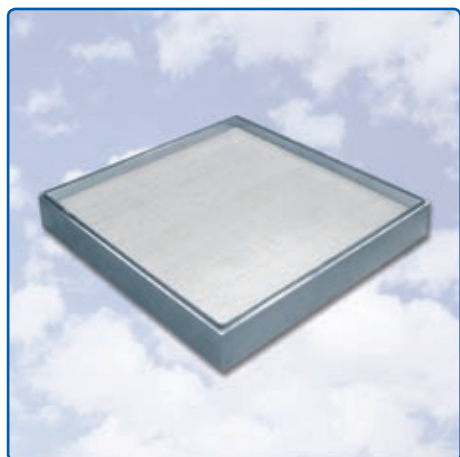
Graph compact filter F7



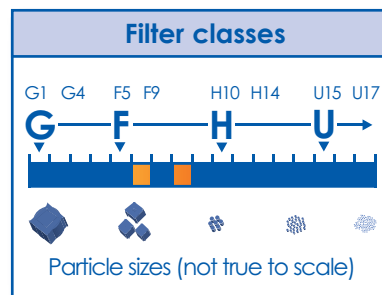
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Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
 D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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High temperature filter (HT-filter)



Applications

- Filtration of supply air in drying units in paint and surface technology
- Hot air filtration and for difficult operating conditions in industrial ventilation systems
- Filtration of supply air in drying ovens and ovens in pharmaceutical and food industry as well as in microelectronic industry
- High air flow rates in small heights and limited space

Classification acc. to EN 779

- Filter class **F6 (EU6)**
- Filter class **F8 (EU8)**

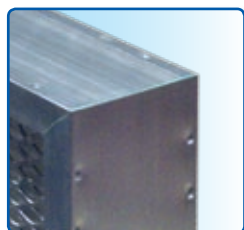
Versions

- Commercial standard sizes for frame depths of 22 mm, 40 mm, 55 mm, 78 mm and 150 mm
- Frame material with high-strength extruded aluminium or galvanized steel
- Glass fibre gasket fixed and positive-fitted
- Clean air side and dust air side with protection against handling
- Special formats on demand
- Air flow direction is freely selectable

Material characteristics

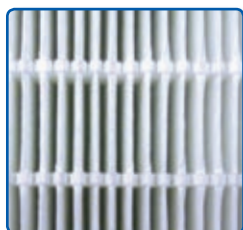
- Tested according to EN 779
- Glass fibre medium
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 230°C
- Spacer (separators): Glass fibre paper
- Contains no silicone or other lacquer harming substances

Benefits of VOLZ Filters



Form closed connection

- Warp resistant frame by positive fitted grouting under pressure
- Mitered Gasket between frame parts



Minipleat Technology

- Free from glue
- Minipleat technology displacing aluminium separators
- High safety against break through



Form-fitted fixed glass fibre gasket

- No disarrangement of gasket through form-fitted fixation

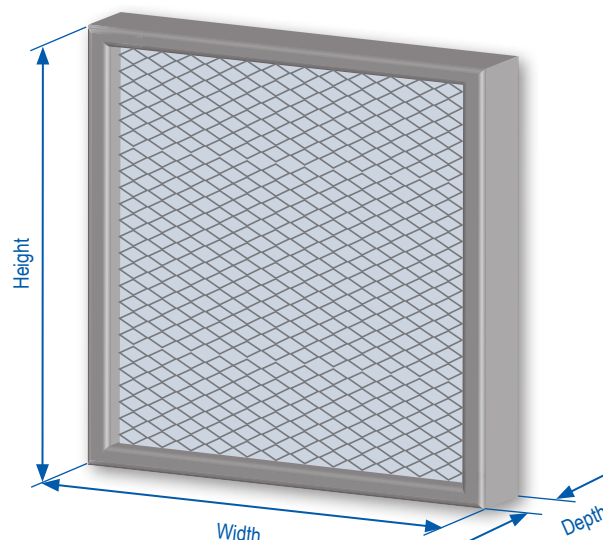


- Filter is produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

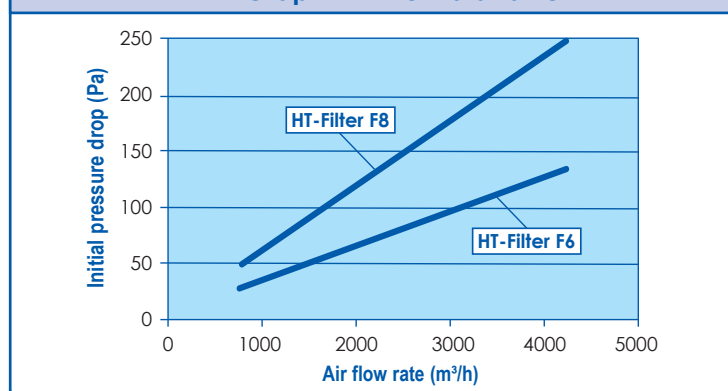
Standard versions high temperature filter (HT-filter) F6 and F8

Width	Height	Depth	Filter area
mm	mm	mm	m²
610	610	55	6.5
305	610	55	3.25
915	457	55	7.25
610	610	78	7.25
305	610	78	3.75
915	457	78	8.25
610	610	150	9.5
305	610	150	4.75
915	457	150	10.5

Information: Width dimension and height dimension are interchangeable. All values according to EN 779



HT-filter F6 (EU6) 610 x 610 x 55 mm		HT-filter F8 (EU8) 610 x 610 x 78 mm	
Initial pressure drop (Pa)	110	Initial pressure drop (Pa)	200
Recommended final pressure drop (Pa)	450	Recommended final pressure drop (Pa)	450
Nominal air flow rate (m³/h)	3400	Nominal air flow rate (m³/h)	3400
Average efficiency (0.4µm) (%)	60 - 80	Average efficiency (0.4µm) (%)	90 - 95
Filter area (m²)	6,5	Filter area (m²)	7,25

Graph HT-filter F6 and F8


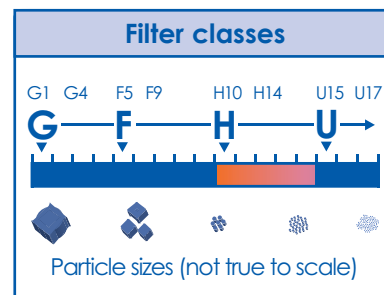
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D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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HEPA filter



Applications

In clean rooms for:

- Research
- Medicine
- Pharmacy
- Electrotechnology
- Microtechnology

Classification acc. to EN 1822

- Filter class H10
- Filter class H11
- Filter class H12
- Filter class H13
- Filter class H14

Versions

- Frame types:
MDF frame, extruded aluminium frame,
plastic frame, steel plate with powder coating,
galvanized steel frame
- Standard depths: 78 mm, 150 mm, 292 mm
- Special sizes on request
- Gaskets: several versions
- Filter media is cast in frame
- On demand with scan-test-protocol

Material characteristics

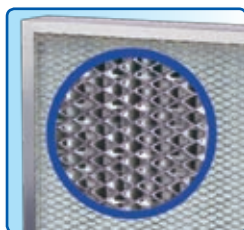
- Tested according to EN 1822
- Humidity resistant up to 100% r. h. (depending on version)
- Temperature resistant up to max. 70°C
- Contains no silicone

Benefits of VOLZ Filters



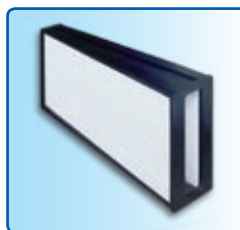
Gaskets for every application

- Standard: with flat section gasket
- On demand with test groove gasket, fluid gasket or foamed continuous gasket available



Handle protection

- Handle protection for secure installation on one side/ both sides on demand (avoids damage of glass fibre medium)



Wedge-shaped filter



Compact cassette filter



- Available in several versions and dimensions

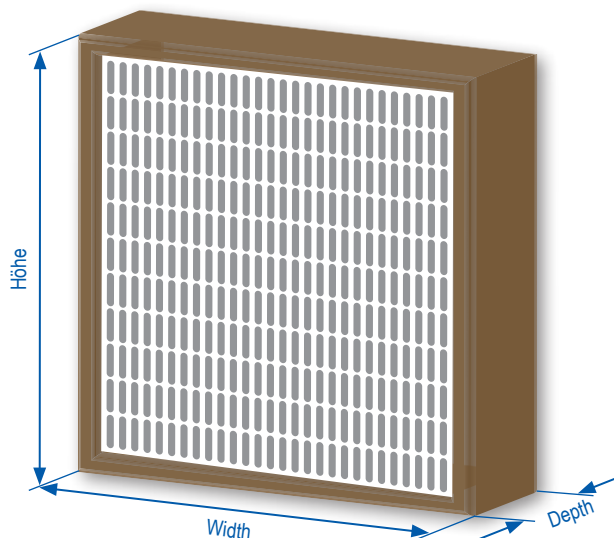


Filter box

Standard versions HEPA filter H10 - H14

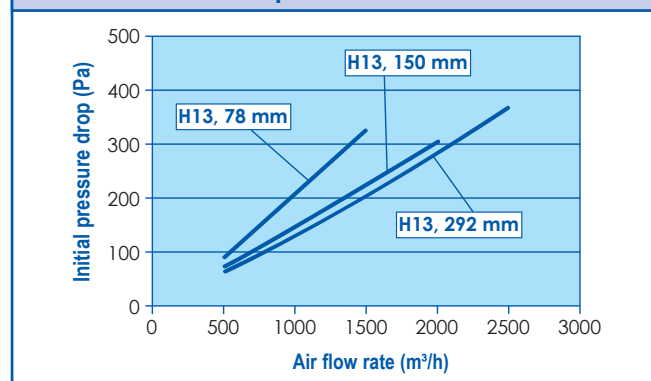
Width	Height	Depth	Filter area*	Nominal air flow rate*
mm	mm	mm	m²	m³/h
305	305	78	2.7	270
305	610	78	5.7	560
610	610	78	12	1200
305	305	150	3.2	330
305	610	150	6.8	670
610	610	150	14.5	1450
305	305	292	4.4	460
305	610	292	9.2	940
610	610	292	20	2000

Information: Width and height dimension are interchangeable
 *Version with MDF-frame



HEPA filter H10 - H14	610 x 610 mm depth: 292 mm	610 x 610 mm depth: 150 mm	610 x 610 mm depth: 78 mm
Initial pressure drop (Pa)	280	215	250
Recommended final pressure drop (Pa)	600	600	600
Nominal Air flow rate (m³/h)	2000	1450	1200
Arrestance for MPPS (%)	≥ 99.95	≥ 99.95	≥ 99.95
Filter area (m²)	20	14.5	12

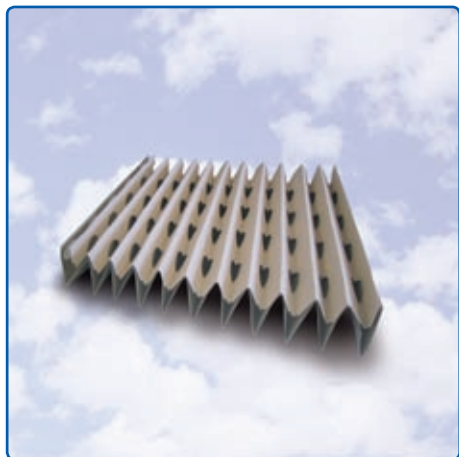
Graph HEPA filter



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Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
 D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Applications

- For use in separation of ink mist in paint shops and colour spraying cabins
- For use in metal industry, furniture industry, plastic industry, automotive and food industry
- Prefiltration for "Paint-Stop" filter mats for extended durability
- For products like primer, primer surfacer, 2 component lacquer, polyester, wax, tar, glue, adhesive, teflon, polyurethane, silicone, chocolate

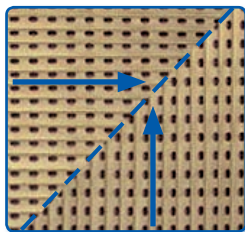
Material characteristics

- Self-rigid due to special pleating geometry and high-quality cardboard
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 100°C
- Arrestance up to 98% (depending on used lacquer)

Versions

- Heights: 750 mm, 900 mm, 1000 mm
- Special sizes on request
- Optional: flame-retardant according to DIN 53438 (F1/K1)
- Optional: water-repellent

Vorteile bei VOLZ Luftfilter



Ways of installation

- Vertical and horizontal installation possible
- Can be combined with "Paint-stop"



Cost saving

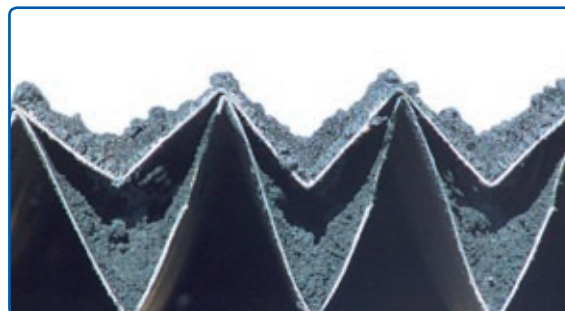
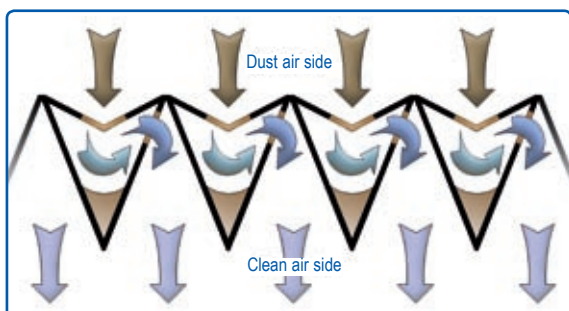
- In contrast to deflectors there is no extensive maintenance necessary while perceiving a better arrestance
- Washout systems cause considerably higher costs for investment, operation, maintenance and disposal compared to SepaPaint



- Filters are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Environment-friendly and easily disposable

The functional principle of „SepaPaint“

Particle-loaded air flow must change its direction several times due to filter construction. Particles heavier than air stick to the walls of “SepaPaint” filter due to centrifugal forces, while cleaned air flow moves through outlets. Pleated construction offers minimum air resistance with a maximum capacity to store overspray



Standard versions SepaPaint

approx. length	Height	Filter area	Initial pressure drop at 0.5 m/s	Initial pressure drop at 0.75 m/s	Initial pressure drop at 1.0 m/s	Recommended final pressure drop	Paint mist separation arrestance at 0.75 m/s ¹
m	mm	m²	Pa	Pa	Pa	Pa	%
13	750	9.75	20	40	70	130	91 - 98
11	900	9.9	20	40	70	130	91 - 98
10	1000	10	20	40	70	130	91 - 98

Information:

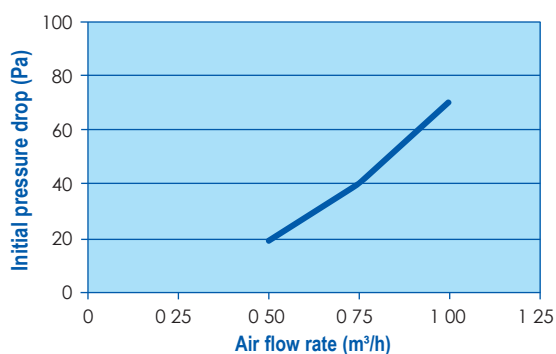
Technical data is identical for standard-, water resistant-, and flame retardant versions

¹Arrestance of overspray depends on paint consistency, concentration, temperature and type of ink mist

Application example SepaPaint



Graph SepaPaint



VOLZ Luftfilter GmbH & Co. KG

Robert-Bosch-Straße 25
D-72160 Horb am Neckar

Phone: +49 - (0)7451 - 5516 - 0
Fax: +49 - (0)7451 - 5516 - 120

info@volzfilters.com
www.volzfilters.com

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Activated coal cartridges and equipment

Applications

For purification of supply air-, exhaust air- and circulating air streams from harmful gases, steams and bad smells in

- Canteen kitchens, museums
- Hospitals, laboratories, computer areas
- Chemical industry, paintshops, airports, petrol stations, parking garages

Versions

- Cartridge casing material:
 - Galvanized steel
 - Stainless steel 1.4301
 - Plastic (only 2600K)
- Cartridge filling:
 - untreated coal
- All versions with bayonet closure

Cartridge structure

- Layer thickness: 26 mm
- Outer diameter: 145 mm
- Smoke-active extruded carbon mould block
- Stick length: 4 - 10 mm

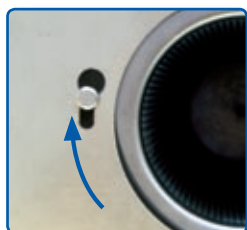
Equipment

- Holding frame material:
 - Galvanized steel
 - Stainless steel 1.4301
 Compatible for cartridge types V1000, V2600 and V3500
- Optional with cartridge key

Contact time* (formula)

$$\text{Contact time (t_k[s])} = \frac{\text{coal volume [m}^3\text{]}}{\text{air flow rate [m}^3\text{/h]}} \times 3600$$

Benefits of VOLZ Filters



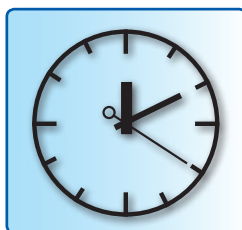
Easy to use

- All cartridges are delivered with bayonet closure. The activated coal cartridge can be changed by using the "push and turn" principle



Environment-friendly and easily disposable

- Cartridges in galvanized steel and high grade steel can be replenished
- Cartridges in plastic version are fully incinerable (unproblematic charging assumed)



Contact time*

- Contact time should be between 0.1 and 2.0 seconds
- Contact time should not be below 0.1 seconds. Therefore air volume for a filter system with 16 cartridges must not be higher than 2000 m3/h (type V2600)



Material-characteristics:

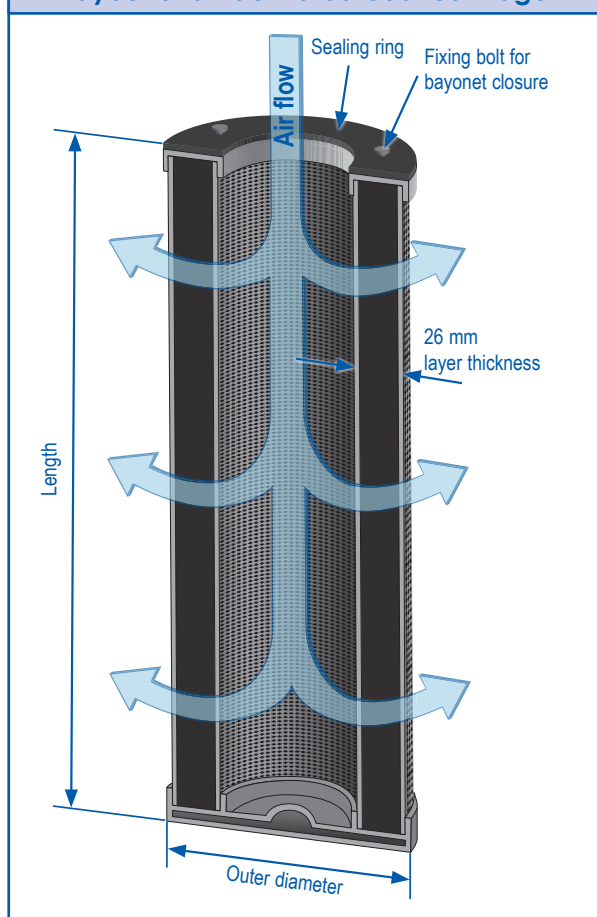
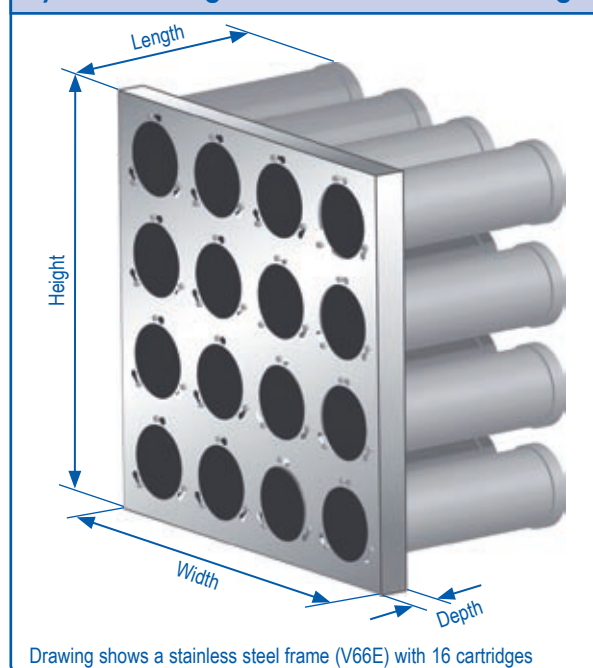
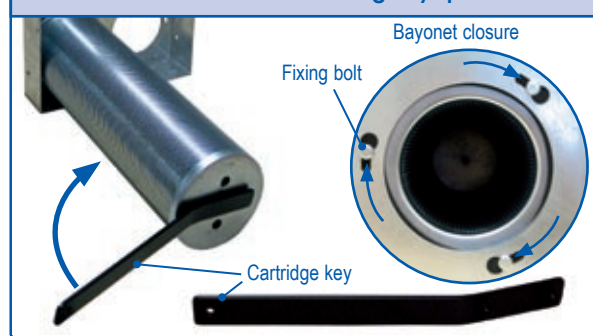
- Filtration of gases and steams
- Humidity resistant up to 70% r. h.
- Temperature resistant up to max. 70°C

**Standard versions
activated coal cartridges**

Outer diameter	Length	Casing	Cartridge type	Filling volume	Layer thickness
mm	mm			litres	mm
145	250	Galvanized steel	V1000S	2.9	26
145	250	Stainless steel 1.4301	V1000E	2.9	26
145	457	Galvanized steel	V2600S	4.3	26
145	457	Stainless steel 1.4301	V2600E	4.3	26
145	457	Plastic	V2600K	4.3	26
145	600	Galvanized steel	V3500S	5.7	26
145	600	Stainless steel 1.4301	V3500E	5.7	26

**Standard holding frame for
activated coal cartridges**

Frame width	Frame height	Frame depth	Material	Type	Compatible for cartridge type	Number of cartridges per frame
mm	mm	mm				
610	610	75	Galvanized steel	V66VS	V1000	16
508	610	75	Galvanized steel	V56VS	V2600	12
305	610	75	Galvanized steel	V36VS	V3500	8
305	305	75	Galvanized steel	V33VS		4
610	610	75	Stainless steel 1.4301	V66E	V1000	16
508	610	75	Stainless steel 1.4301	V56E	V2600	12
305	610	75	Stainless steel 1.4301	V36E	V3500	8
305	305	75	Stainless steel 1.4301	V33E		4

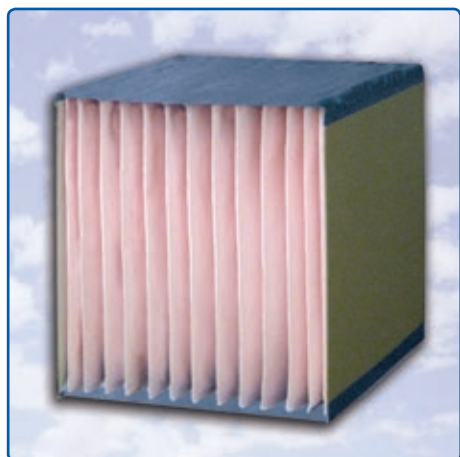
Layout of an activated coal cartridge

Layout of a holding frame for activated coal cartridges

Installation of activated coal cartridge by "push and turn"

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 Robert-Bosch-Straße 25
 D-72160 Horb am Neckar

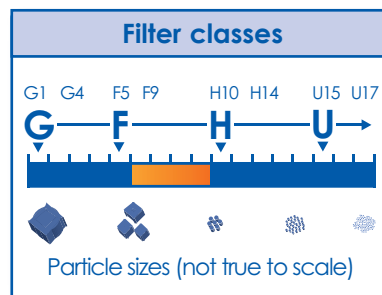
Phone: +49 - (0)7451 - 5516 - 0
Fax: +49 - (0)7451 - 5516 - 120

info@volzfilters.com
www.volzfilters.com

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Basket filter



Applications

For fine dust filtration in heat ventilation and air conditioning devices and plants of all kinds

- Offices, hospitals, computing centres
- Pharmaceuticals, fine-mechanical and food industry
- Prefiltration, e.g. for HEPA filters

Classification acc. to EN 779

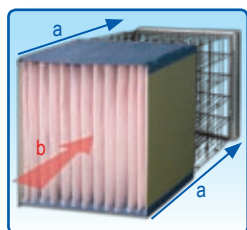
- Filter class **F6 (EU6)** - green version
- Filter class **F7 (EU7)** - pink version
- Filter class **F8 (EU8)** - yellow version
- Filter class **F9 (EU9)** - white version



Material characteristics

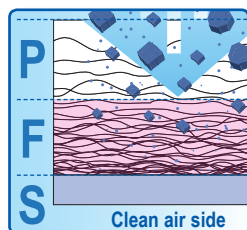
- Tested according to EN 779
- Shatter-proof synthetic fibres, environmentally safe
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C
- All versions are fully incinerable

Benefits of VOLZ Filters



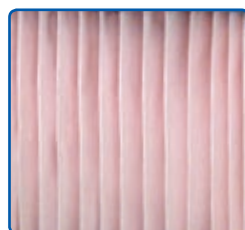
Easy clip-on installation

- a: clip-on direction
- b: air flow



3-layer medium

- P: Pre-filter for rough dust
- F: Fine filter grade
- S: Synthetic layer on clean air side for stabilization
- Best arrestance
- Low pressure loss



Big filter area through 13 pockets

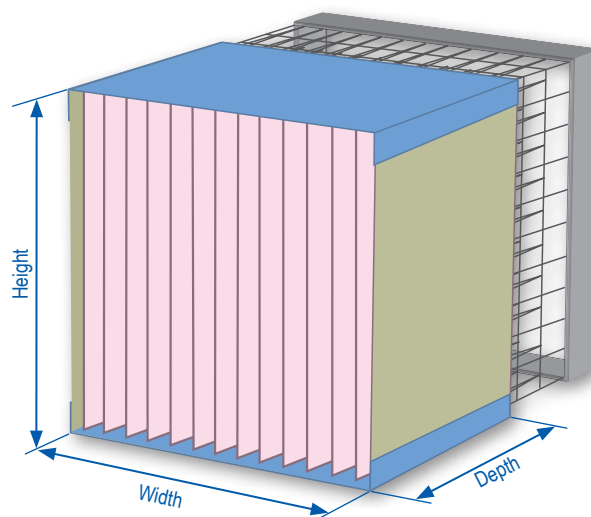
- Optimal dust absorption of pockets through fixed adjustment on supporting frame



- Filter media and all components are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Öko-Tex Standard 100 - tested for harmful substances
- Environment-friendly and easily disposable

Standard versions basket filter F6 - F9

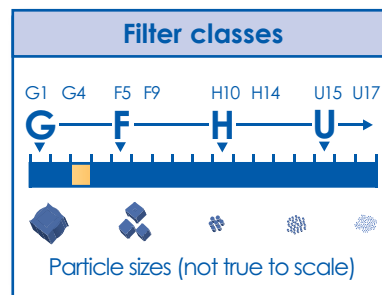
Filter class	Width	Height	Depth	Filter area	Nominal air flow rate
	mm	mm	mm	m ²	m ³ /h
F6	587	587	640	9.8	3400
F7	587	587	640	9.8	3400
F8	587	587	640	9.8	3400
F9	587	587	640	9.8	3400

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Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
 D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Roller tape filter



Applications

- Deliverable Systemes:
AAF / CEAG
FARR / SHIRP
DELBAG
TROX
- Medium:
- Synthetic fibre
- Glass fibre with Dust-adhesive

Material characteristics

- Tested according to EN 779
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of media

Benefits of VOLZ Filters



Compatibility

- VOLZ roller tapes are suitable for all current roller tape systems



- Synthetic filter media are produced in our plant in Germany

- Quality control of the complete production with internal filter test equipment and modern quality-management-tools
- Environment-friendly and easily disposable

Classification acc. to EN 779

- Filter class **G3 (EU3)**

Anwendungen

- For separation of rough dust in air conditioning plants

System	Medium	Filter classes	Dimension	Role length	Role width
				m	m
AAF / CEAG Metal bobbin with side-discs	Synthetic/ glass	G3 (EU3)	3	20	0.836
		G3 (EU3)	4	20	1.141
		G3 (EU3)	5	20	1.446
		G3 (EU3)	6	20	1.751
		G3 (EU3)	7	20	2.056
FARR / SHIRP Cardboard bobbin	Synthetic/ glass	G3 (EU3)	3	20	0.838
		G3 (EU3)	4	20	1.143
		G3 (EU3)	5	20	1.448
		G3 (EU3)	6	20	1.753
		G3 (EU3)	7	20	2.058
TROX Cassette	Synthetic/ glass	G3 (EU3)	A	20	0.950
		G3 (EU3)	B	20	1.250
		G3 (EU3)	C	20	1.550
		G3 (EU3)	D	20	1.850
		G3 (EU3)	E	20	2.150
DELBAG Cardboard bobbin	Synthetic/ glass	G3 (EU3)	1	20	0.810
		G3 (EU3)	2	20	1.110
		G3 (EU3)	3	20	1.410
		G3 (EU3)	4	20	1.710
		G3 (EU3)	5	20	2.010

A square pipe is separately available for DELBAG version

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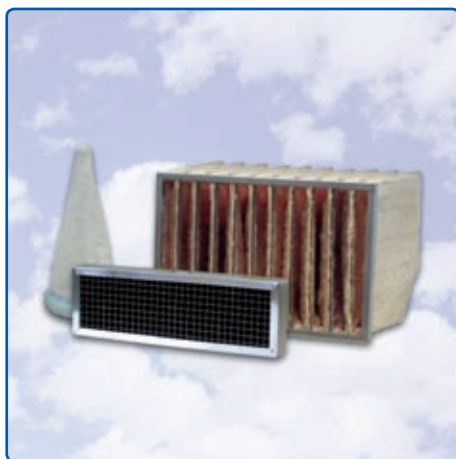
Robert-Bosch-Straße 25
D-72160 Horb am Neckar

Phone: +49 - (0)7451 - 5516 - 0
Fax: +49 - (0)7451 - 5516 - 120

info@volzfilters.com
www.volzfilters.com

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Extra-/special filter



Applications

- Filter for different sectors of air conditioning and ventilation technology, painting and drying technology as well as filters for rotary equipment

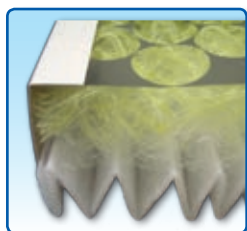
Materials

- Meltblown
- PPI
- Glass fibre
- Activated coal
- Cellulose

Versions

- Non-standard / special filters are available in different versions and dimensions on request

Benefits of VOLZ Filters



Filter combinations

- Different materials and versions can be combined



Flexible production

- Individual small series as well as large order quantities



Speed and flexibility

- Short delivery times and an optimal focusing at our customers

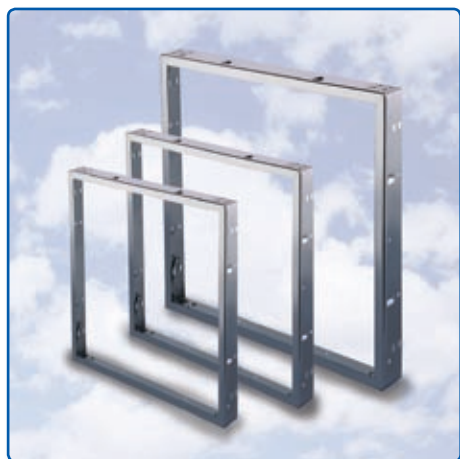


- From fibre to final filter - perfect fulfilment
- Optimal value for money
- Qualified consulting
- Services like:
 - filter management
 - training courses, etc.

VOLZ Luftfilter GmbH & Co. KG

 Robert-Bosch-Straße 25 Phone: +49 - (0)7451 - 5516 - 0 info@volzfilters.com
 D-72160 Horb am Neckar Fax: +49 - (0)7451 - 5516 - 120 www.volzfilters.com

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Holding frame and equipment for filter walls

Applications

- Construction and reconstruction of air conditioning plants. For applications with demanding operating conditions, e.g. in automotive industry or in air conditioning and ventilation technology
- Easy and quick handling through tension spring fastener

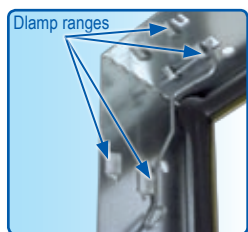
Versions

- Galvanized steel or high grade steel (V2A)
- Optional with foamed hygiene-gasket
- Optional with vacuity-gasket
- Optional with M6 x 10 screw- and screw nuts
- Optional with groove for clip-on installation
- All current standard sizes
- Special sizes on request

Material characteristics

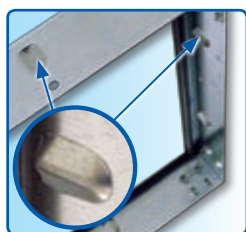
- Leak-free sealing of the filter units
- Stable and solid construction
- Free from lacquer harming substances
- Hygiene-gasket according to VDI 6022
- Lacquer compatibility according to IPA-control

Benefits of VOLZ Filters



Filter combinations

- **Several clamp ranges:**
 - 20 mm and 25 mm
 - 48 mm and 50 mm



Optimal adjustment

- Conical stampings enable an easy installation and centring of the filter. Therefore you get an optimal adjustment and sealing of the filter



Hygiene-gasket (optional)

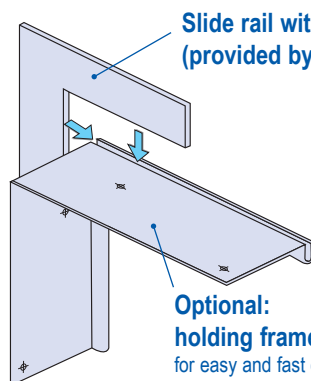
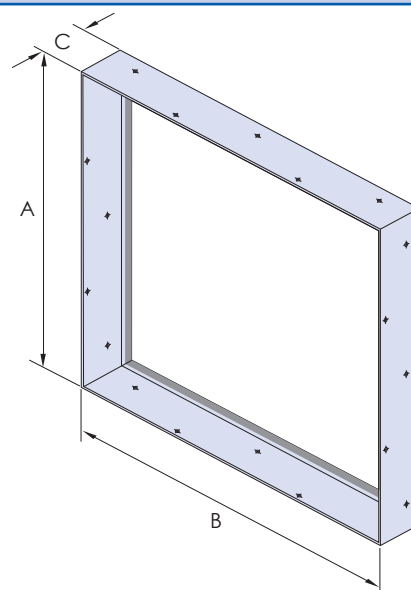
- Hygiene-gasket on holding frame
- Abrasion-resistant, silicone-free, closed porous



- Holding frame and equipment are produced in Germany
- Quality control of the complete production with internal filter test equipment and modern quality-management-tools

Standard versions holding frame

Format	A	B	C	G	H
	Dimensions in mm				
1/1	610	610	70	55	125
5/6	610	508	70	55	99.5
1/2	610	305	70	55	99.5
1/4	305	305	70	55	99.5

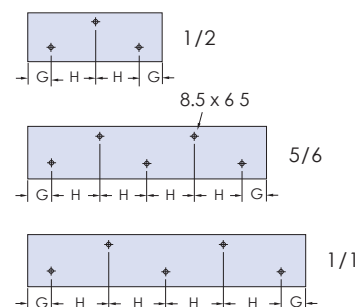


Slide rail within channel
(provided by customer)

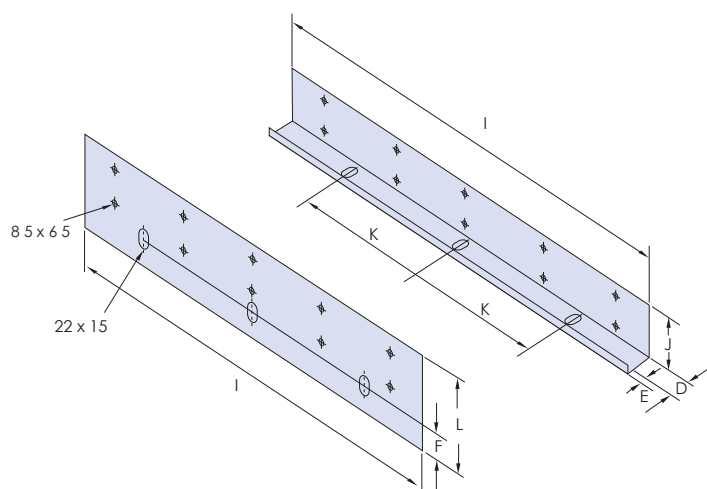
Optional:
holding frame with groove
for easy and fast clip-on installation

The frame is clipped on or slid on installation rail (see illustration)

**Details of
hole pattern:**


Modular installation system – fittings and stabilization sheets

Filter combinations	1 x 1/1	1 x 1/1	2 x 1/1	2 x 1/1	3 x 1/1	3 x 1/1	4 x 1/1	4 x 1/1	5 x 1/1
	1 x 1/2	1 x 5/6		1 x 1/2		1 x 1/2		1 x 1/2	
I in mm	915	1118	1220	1525	1830	2135	2440	2745	3050



Dimensions of fittings and stabilization sheets:

I = see table above

J = 77 [mm] D = 40 [mm]

K = 200 [mm] E = 2 [mm]

L = 126 [mm] F = 29 [mm]

Hole patterns of fittings and stabilization sheets
are compatible with hole patterns of holding frames

Information: Wall thickness of holding frames, fittings and stabilization sheets averages 1.25 mm in standard version in galvanized steel

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 D-72160 Horb am Neckar Fax: +49-(0)7451-5516-120 www.volzfilters.com

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Customer references



DAIMLER



KÄSSBOHRER GELÄNDEFahrzeug AG



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FAHRZEUGTEILE UND MEHR



robatherm
the air handling company



EISENMANN



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Plant I

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Plant II - VII

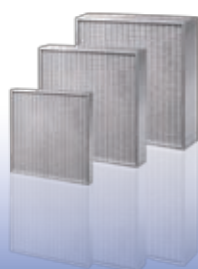
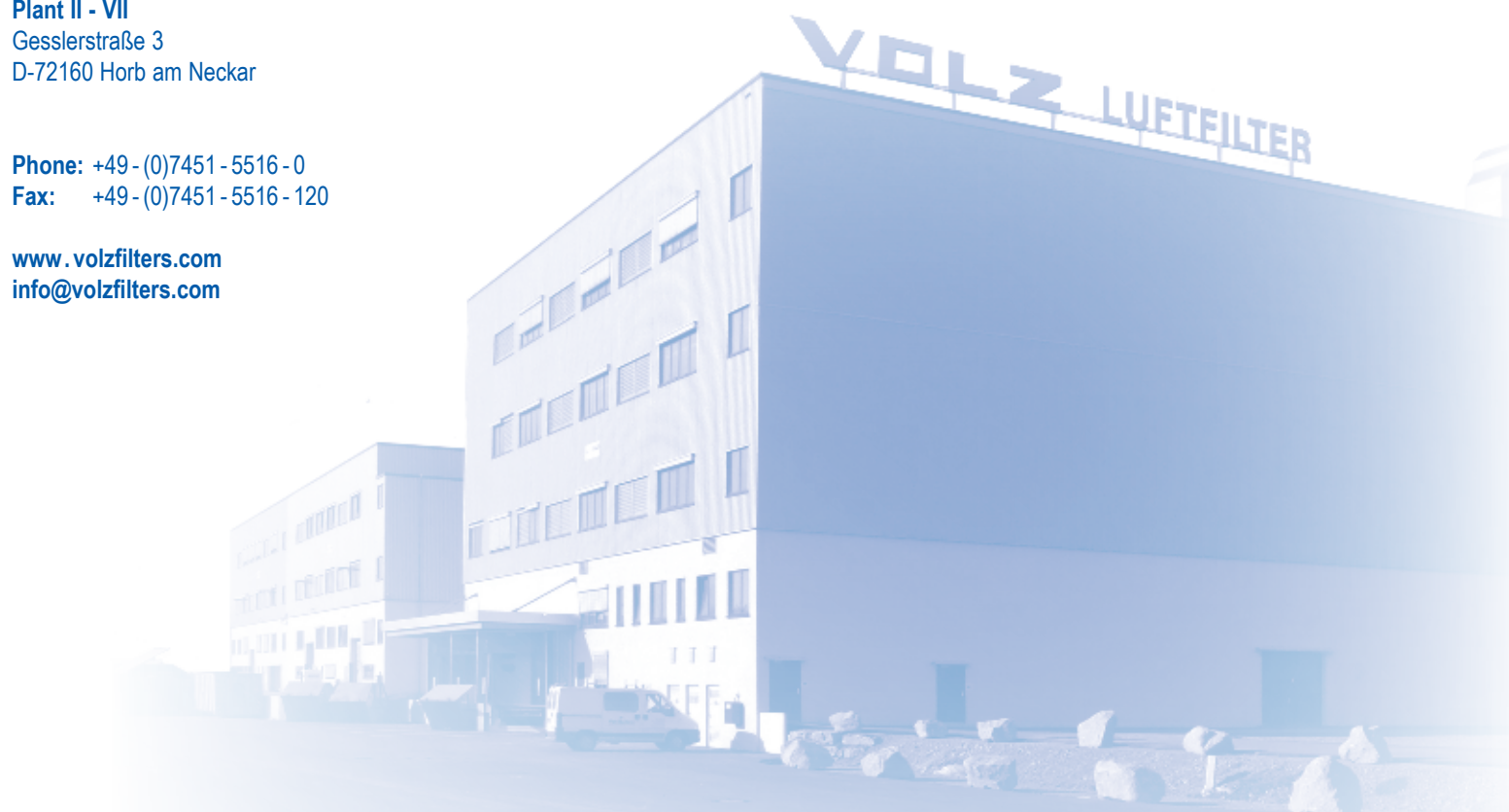
Gesslerstraße 3
D-72160 Horb am Neckar

Phone: +49 - (0)7451 - 5516 - 0

Fax: +49 - (0)7451 - 5516 - 120

www.volzfilters.com

info@volzfilters.com



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