



# Product catalogue

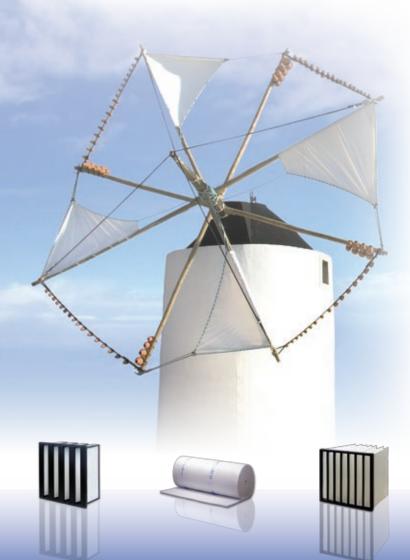
Filters for air conditioning technology Filters for painting and drying technology

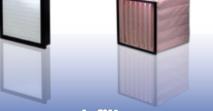




Air conditioning technology

Painting & drying technology





www.volzfilters.com

# Portrait VOLZ Luftfilter GmbH & Co. KG

# Facts and figures:

Volume of sales: Employees: Production area: Variety of products: approx. 45 Mio. Euro 500 employees 60,000 m<sup>2</sup> more than 8,500 different products

VOLZ Luftfilter GmbH & Co. KG is 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 to large quantities – there are many possibilities to fulfil our customers requirements. Quality control 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.

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.



The management: Rainer Volz, Manfred Volz and Thomas Erath









# VOLZ Luftfilter GmbH & Co. KG

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

Phone:+4974515516-0Fax:+4974515516-120

www.volzfilters.com info@volzfilters.com

# Teams & Locations of VOLZ Luftfilter

### The sales teams at VOLZ Luftfilter

Competent teams who will give you advice according to your requirements and help you with specific queries are at your disposal to support you as a customer. Thanks to this you may rest assured that your individual questions will be answered quickly and in a professional manner. Simply contact your team of consultants.

Export "North" Sales International	Export "South"/ Automotive Germany Sales International	VOLZ Filters UK Ltd. Sales United Kingdom	VOLZ Filters SK s.r.o. Sales Slovakia
Contact: Phone: +49 7451 5516-919 Fax: +49 7451 5516-900 export-north@volzfilters.com	Contact: Phone: +49 7451 5516-909 Fax: +49 7451 5516-140 export-south@volzfilters.com	Contact: Phone: +44 161 743-4190 Fax: +44 161 743-1390 sales@volzfilters.co.uk	Contact: sales@volzfilters.sk

# The VOLZ locations and plants

We will continue to place great importance on a high quality of our products and ensure this with our main plants in Germany. With our branch in England we unite our down-to-earth-attitude with the flexibility of a worldwide operating company with mid-sized structure.



The VOLZ Plants II-VII (production and logistics) in Horb-Heiligenfeld



The VOLZ Plant I (sales) in Horb-Bildechingen



The VOLZ-Plant UK (production and sales) in Manchester

# The VOLZ Sales Network

## We operate on a worldwide scale with our sales network in Europe

Beside quality and speed we offer to our clients the additional value of a medium-sized company with individual service and worldwide orientation. Our experienced sales representatives advise and support our clients in all questions regarding air filter technology with competence and commitment.



#### VOLZ Filters UK Ltd. United Kingdom

Agecroft Commerce Park Unit 1 Canary Way, Swinton Manchester M27 8AW

Contact: Phone: +44 161 743-4190 sales@volzfilters.co.uk

#### VOLZ Luftfilter Gmbh & Co. KG Germany

Heiligenfeld Commerce Park Gesslerstraße 3 72160 Horb am Neckar

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

#### VOLZ Filters SK s.r.o. Slowakia

Robotnicka 1 03601 Martin

Contact:

sales@volzfilters.sk

# Company Profile VOLZ Filters

# "Whatever we do, we have to do it properly!"

In order to continue surviving the ever growing competition and to continue growing we have to improve a bit each day. Only if each employee breathes life into these ideas again and again each day, together we can successfully create our future! Our company profile reflects our aims that we plan to reach within the next few years and shows the way how we can achieve this with common effort.

# **Vision:** Where we want to go.



Within the next few years, Volz Filters as a family-run, financially independent company will develop into the most innovative producer and supplier of air filter products and services for air conditioning and ventilating systems, painting and drying systems as well

as gas turbine and compressor systems, while, at the same time, successfully managing to venture into new business fields.

# **Values:** What is important to us.



The values in our company are significantly responsible for performance, motivation, cooperation and for the success of our company. Both the principles as also the attitudes and acceptance of the employees play an important role here.

#### ► Family-run

VOLZ Luffilter is a family-run company and this will remain so even in the future.

- Focused on the market and the customer The customer focus is an essential key success factor of our corporate philosophy. With our broad vertical range of production we guarantee a perfect coordination with the individual customer requirements in order to achieve an ideal support based on partnership.
- Committed to quality

We place a high priority on both product and process quality and they are continuously optimised within the scope of the continuous improvement process (CIP).

Focused on success and professional

Our success factors are:

- •Speed •Flexibility
- Fiexibility
- Excellent price/performance ratio
   Motivated and auglified employees

# **Aims:** What we want to achieve.



Clearly defined objectives are the key for the corporate success today and in the future. The company VOLZ Filters pays particular attention to the continuation and the expansion of its successful concepts that have given strength to the company already the past.

#### Financial independence

This means growth and investment from own resources

#### Profitable growth

The basic principle is: Yield before turnover

- Consolidation of innovative strength
   Competitive advantages thanks to unique selling propositions
- Venture into new business fields
   Sophisticated market segments safeguard our market position

#### Internationalisation of the sales activities

The market share is to be increased - especially regarding exports

# VOLZ Quality Features

# Quality requirements of VOLZ products

VOLZ produces air filter products with process-optimized production processes, internal test benches for filters and modern quality management tools. All this with the rating - Quality made by VOLZ.



# Furthermore we offer:

- A product portfolio with more than 8,500 products for different applications, like air conditioning and ventilation systems, painting and drying systems as well as gas turbine and compressor systems
- One of the most modern machine parks and latest robot technology for highest quality
- One of the most modern glass fibre extrusion systems in the world
- Customized labelling and packaging
- Services like e.g. particle measurement, paint damage analysis, analysis of the painting process, rating
  of spraying booths and much more

\* Against surcharge and only for standard filters and components and dependent on batch size

# Advantages that you can trust in

## The VOLZ fine dust filter are certified in accordance with the hygiene compliance test

Especially for the sensible areas of the air conditioning technology, the VOLZ fine dust filter CompaPleat, Compact Filter and Pocket Filter undergo a special hygiene compliance test by the "Institut für Lufthygiene Berlin" (Institute of Air Hygiene). Our air filters are therefore safe for the requirements of general ventilation and air conditioning technology and in the hospital sector. VOLZ air filters can be used with a good conscience.

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The VOLZ fine dust filters are tested in accordance with the following hygiene-related requirements:

#### General air conditioning and ventilation technology:

- VDI 6022, sheet 1 (04/2006)
- SWKI VA104-01 (04/2006)
- VDI 3803 (02/2010)
- ÖNORM H 6021 (09/2003)
- DIN EN 13779 (09/2007)

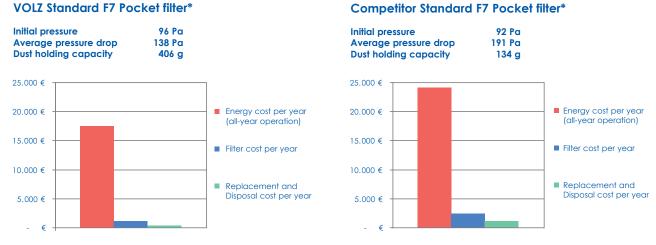
#### Hospital sector:

- DIN 1946-4 (12/2008)
- SWKI 99-3 (03/2004)
- ÖNORM H 6020 (02/2007)

# The economical aspect of products from VOLZ Filters

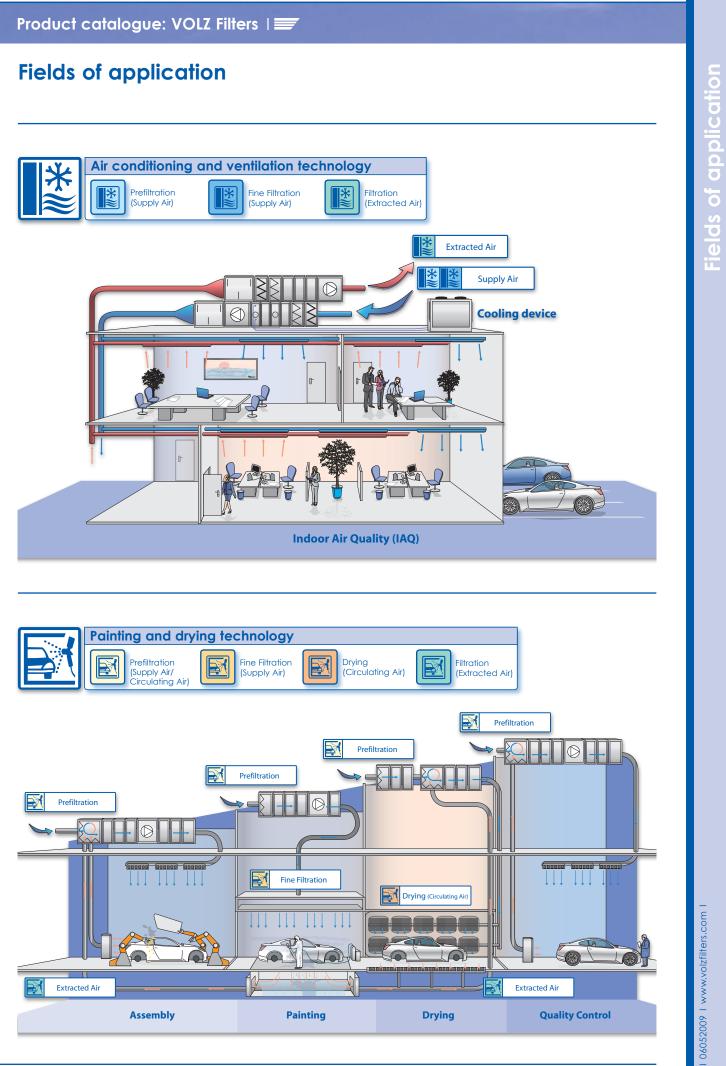
Today energy saving is a subject that is becoming more and more important. Filter cost, replacement and disposal cost are only a fraction of the total cost that accrue in a filter system. The energy cost per year (for all-round operation) represents 70-80% of the total cost.

Your advantages at VOLZ Filters: Long service life, high dust holding capacity, low pressure drops and completely ashable products. This results in low disposal cost, low energy cost and low overall cost. The saved energy cost by using VOLZ Pocket Filters amount up to 30% compared to products of the competition.



**VOLZ Standard F7 Pocket filter\*** 

Sample system: Filter wall with 63 filters all-year operation and current energy cost. \* Filter dimensions: 592 x 592 x 600 mm 8 pockets





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**Holding frame** 

**Pocket filters** 

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<u>Pleat filters (cassettes)</u>

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HIGH QUALITY



#### **Applications**

For pre filtration in aerial engineering devices of all kinds

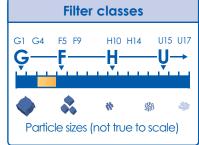
- Air conditioning in offices, schools, laboratories
- Prefiltration for fine filters
- Prefiltration for paint shops

#### 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 filter pre filtration



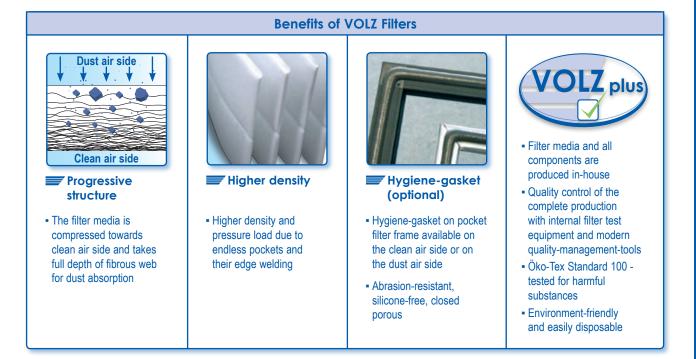


#### Classification acc. to EN 779

- Filter class G3
- Filter class G4

#### 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



FILTERS

Pocket filters

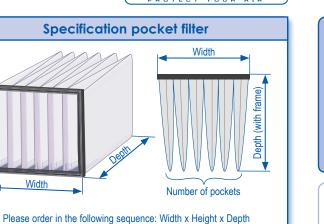
Filtration mats

Pleat filters (cassettes)

**HEPA filters** 

Extra-/special filters

Accessories



#### Assembly instruction for correct installation

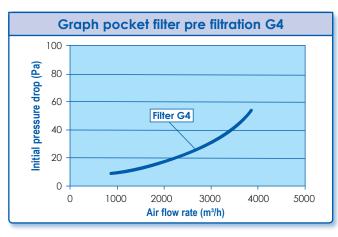


Correct Installation! Pockets stand vertically



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

# Pocket filter Jertiton; G4<br/>592 x 500; 6 pocketsInitial pressure drop (Pa)40Average arrestance (%)≥ 90Recommended<br/>final pressure drop (Pa)25055Nominal air flow rate (m³/h)3400Filter area (m²)4.5



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#### VOLZ Luftfilter GmbH & Co. KG

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Standard versions for pocket filter G3 - G4

area

Filter a

m²

1.6

2.4

2.7

3.9

4.5

1.3

1.9

2.3

3.2

3.8

0.8

1.2

1.4

1.9

2.3

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

- Plastic frame (25mm), metal frame (20 or 25mm)

- Optional with foamed hygiene-gasket

¥

m

287

×

287

¥

mm

287

592 ×

Width x Height

\*2

mm

592 x 490

Number of pockets

6 1.5

6

6 2.5

Depth

mm

200

300

360

500 6 3.4

600 6 4.0

200 6 0.9

300 6 1.2

360 6 1.4

500 6 2.0

600 6 2.2

200 3 0.4

300 3 0.5

360 3 0.7

500 3 1.0

600

3 1.1

surface

Filter

m<sup>2</sup>

2.1

Number of pockets

Depth

mm

200 6

300

360 6

500 6

600 6

200 5

300 5

360 5

500 5

600 5

200 3

300 3

360 3

500 3

600 3

\*1 Standard sizes welded

\*2 Special sizes stitched

6

Width x Height

¥

592 mm

592 x !

¥

mm

592

190 × 1

¥

mm

592

×

287

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#### **Applications**

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

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

#### Versions

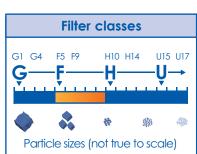
- Standard sizes welded and with "Pocket-Fitting"
- Special sizes on request
- Frame types: Plastic frame (25mm), Metal frame (20 or 25mm)
- Filters with plastic frame are fully incinerable
- Optional with foamed hygiene-gasket

# Pocket filter fine filtration



HIGH QUALITY





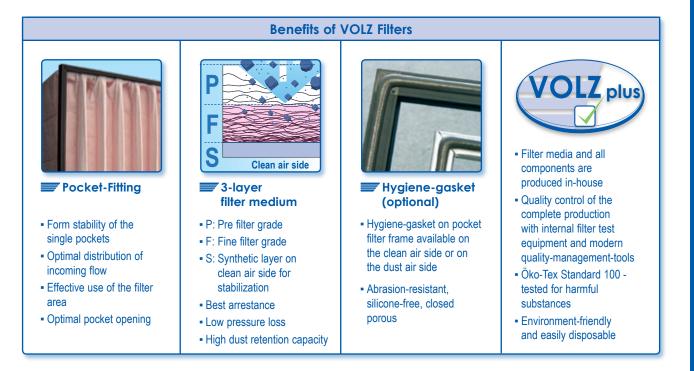


- Filter class F5 brown version (white\*)
- Filter class F6 green version
- Filter class F7 pink version
- Filter class F8 yellow version
- Filter class F9 white version

\*Polyester version without Pocket-Fitting, no 3-layer medium

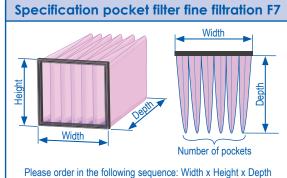
#### Material characteristics

- Tested according to EN 779
- Tested and certified by ILH Berlin
- 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



Pocket filter fine filtration

Width x Height	Depth	Number of pockets	Filter area	Pocket-Fitting*3	Width x Height	Depth A	Number of pockets	Filter area	Pocket-Fitting* <sup>3</sup>	Width x Height	Depth	Number of pockets	Filter area	D = -1 - 4 7.441 +3			
	mm		m²			mm		m²			mm		m²				
					F5	(P	oly	este	er)								
1m *1	360	6	2.7	-	mm *2	360	6	2.5	-	mm *2	360	6	1.4				
592 x 592 mm	500	6	3.9	-	592 x 490 n	500	6	3.4	-	592 x 287 n	500	6	2.0				
592	600	6	4.5	-	592	600	6	4.0	-	592	600	6	2.2				
יד * ד	360	5	2.3	-	1m *1	360	3	1.4	-	1m *2	360	3	0.7				
490 x 592 mm	500	5	3.2	-	x 592 mm	500	3	1.9	-	× 287 mm	500	3	1.0				
490	600	5	3.8	-	287	600	3	2.3	-	287	600	3	1.1				
		F5	5 - F	9	(Pro	ogre	essi	ve	mic	:rof	ibe	r)					
	360	6	2.9	х		360	6	2.5	-		360	6	1.5				
	000	8	3.9	х		000	8	3.2	-		000	8	2.0				
	380	10	4.8	х		380	10	4.2	-		380	8	2.1				
* *	000	12	5.7	х	42	*2	*2	000	12	5.0	-	*2	000	10	2.5		
	500	6	4.1	х	mm m	500	6	3.4	-	* mu	500	6	2.1				
2 m	000	8	5.4	х	592 x 490 m	592 x 490 n	90 n	06 m	000	8	4.4	-	7 m	000	8	2.7	
592 x 592 mm	535	10	6.5	х			535	10	5.8	-	592 × 287	535	10	3.4	L		
<b>592</b>		12	7.8	х			592		12	6.9	-	592		12	4.1		
Ĩ	600	6	4.8	х			600	6	4.0	-		600	6	2.5			
		8	6.5	х			8	5.2	-			8	3.2				
	635	10	7.6	Х		635	10	6.8	-		635	8	3.4				
		12	9.1	Х			12	8.1	-			10	4.1				
	360	5	2.5	Х		360	3	1.5	х		360	3	0.8				
		6	2.9	Х			4	2.0	х			4	1.0				
	380	8	3.8	Х		380	5	2.4	Х		380	5	1.3				
¥		10	4.8	Х	*		6	2.9	Х	*2		6	1.5				
mm	500	5	3.4	X	E H	500	3	2.0	X	E L	500	3	1.0				
490 x 592 mm		6 0	4.1	X	287 x 592 mm		4	2.7	X	287 x 287 mm		4	1.3				
X (	535	8	5.2	X	X	535	5	3.2	X	X	535	5	1.7				
490		10	6.5 4.0	X	287		6 3	3.9 2.4	X	287		6 3	2.1 1.2				
	600	5		X		600			X		600						
		6 8	4.8 6.1	X			4 5	3.2 3.8	X			4 5	1.6				
	635	8 10	6.1 7.6	x x		635	5 6	3.8 4.6	x x		635	5 6	2.0 2.4				
	Pock	et filte	ers wit	h plas			ust be	used	holoh		incuml		2.4				
1	<ul> <li>Spec</li> <li>*1 Star</li> <li>*2 Spec</li> <li>*3 Opti</li> </ul>	idard cial si	sizes zes st	welde tched	d				reque	st							



#### Assembly instruction for correct installation

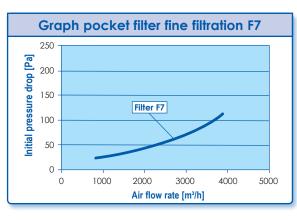




**Correct Installation!** Pockets stand vertically

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

	Pocket filter fine filtration F7 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							



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HIGH QUALITY

# **Pocket filter V-series**



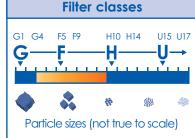
#### **Applications**

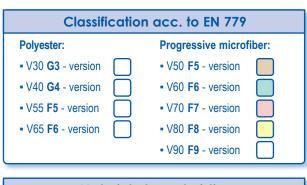
- For high requirements in the air conditioning technology, e.g. offices, hospitals, laboratories, computing center, etc.
- For industrial applications with challenging operating conditions, e.g. paint-spray lines in automotive industry, pharmaceutical industry and food industry
- Prefiltration e.g.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

#### 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

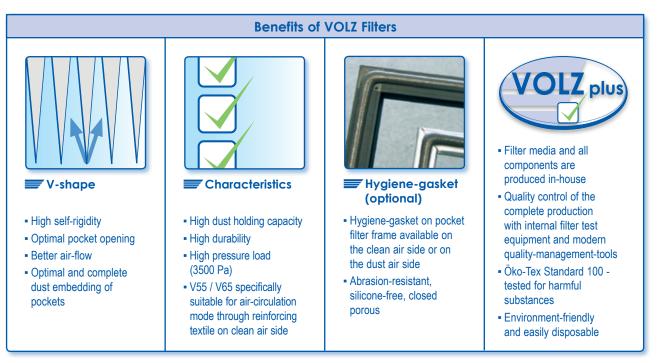






#### **Material characteristics**

- 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

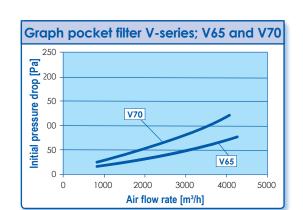


**Pocket filter V-series** 

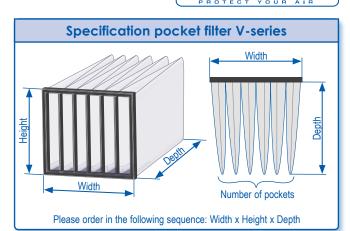
Standard versions V-series G3 - F9									
Width	Height	Depth	Number of pockets	Filter area	Width	Height	Depth	Number of pockets	Filter area
mm	mm	mm		m <sup>2</sup>	mm	mm	mm		m²
	V	30 G	3			٧	65 F	6	
592	592	600	7	5.9	592	592	600	7	5.9
490	592	600	6	5.1	490	592	600	6	5.1
287	592	600	4	3.4	287	592	600	4	3.4
	V40 G4 V70 F7					7			
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
	۷	/50 F	5		V80 F8				
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
	۷	/55 F	5			۷	/90 F	9	
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
	٧	/60 F	6						
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



## 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 V-series V65; F6 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 (m <sup>3</sup> /h)	3400	Filter area (m²)	5.9					

Pocket filter V-series V70; F7 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						

#### VOLZ Luftfilter GmbH & Co. KG

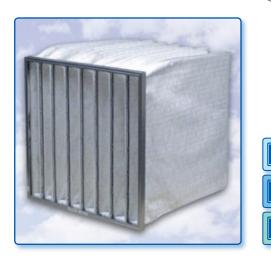
Robert-Bosch-Straße 25 D-72160 Horb am Neckar 
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HIGH QUALITY

\*



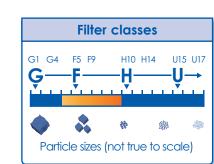
#### **Applications**

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 🐼 II 2 GD (X)
- Application for zones 1 and 2 also 21 or 22
- The Ex-Protect-Filter was tested according to following norms: EN 1127-1, BGR 132/CENELEC Report R 044-001, EN 13463-1 und EN 15198

#### 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



Pocket filter Ex-Protect

Classification acc. to EN 779	
class G4 - white* version class F5 - brown version (white*)	

- Filter class F6 green version
  Filter class F7 pink version
- Filter class F8 yellow version

Filter

Filter

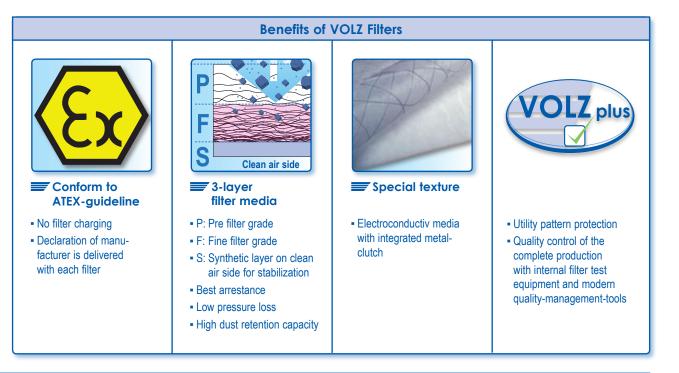
- Filter class F9 white version
- \*Polyester version no 3-layer media
- , ,

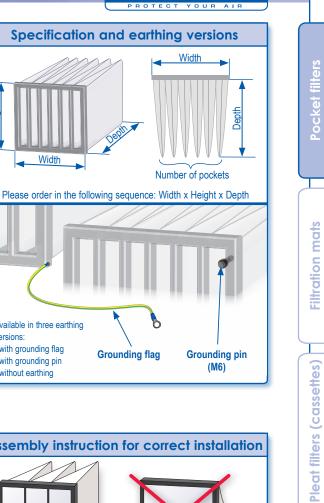
#### Material characteristics

- 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

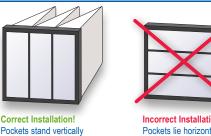


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#### Assembly instruction for correct installation

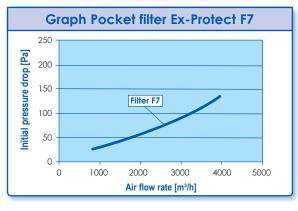


Incorrect Installation! Pockets lie horizontally! Pockets below running risk of absorbing condensed water

**HEPA filters** 

Extra-/special filters

Accessories



#### VOLZ Luftfilter GmbH & Co. KG

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Special sizes on request

- Optional with foamed hygiene-gasket

3.8

- Detailed technical report of a conformity procedure according to guideline 94/9/EG on request

Standard versions Ex-Protect G4 - F9

Depth Number

mm

360

380

500

535

600

635

360

380

500

535

600

635

mm

592

×

06

Width x Height

G4 - F5

mm

592

× 06

pockets

5

area

Filter

m²

(Polyester)

4 2.0

5 2.3

4 2.1

5 2.6

4 2.7

5 3.2

4 2.9

5 3.6

4 3.2

5

4

5

5 2.5

6 2.9

8 3.8

10 4.8

5 3.4

6 4.1

8 5.2

10 6.5

5 4.0

6 4.8

8 6.1

10 7.6

(Progressive microfiber)

3.8

3.4

4.2

pockets

5

Number Depth

> 2 1.0

> 4 1.9

2 1.1

4 2.0

2 1.4

4 2.6

2 1.5

4 2.8

2 1.7

4 3.1

2 1.7

4

F5 - F9

3 1.5

4 5 2.4

6 2.9

3 2.0

4 2.7

5 3.2

6 3.9

3 2.4

4 3.2

5

6 4.6

3.3

2.0

mm

360

380

500

535

600

635

360

380

500

535

600

635

mm

592

×

287

area

Filter

m²

Width x Height

mm

287 × 592

Number of pockets

4 2.1

6

4

6 3.1

4 2.8

6 3.9

4 3.0

6 4.3

4 3.3

6 4.5

4 35

6 5.1

6 2.9

8

10 4.8

12 5.7

6 4.1

8 5.4

10 6.5

12 7.8

6 4.8

8 6.5

10 7.6

12 9.1

3.9

Depth

mm

360

380

500

535

600

635

360

380

500

535

600

635

mm

592

592 x !

area

Filter

m²

2.7

2.2

Width

Available in three earthing

- with grounding flag

- with grounding pin

- without earthing

versions

Width x Height

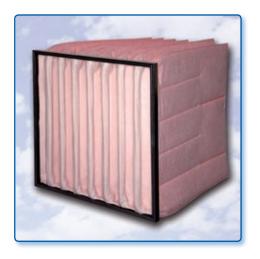
mm

592 x 592

	Pocket filter Ex-Protect; F7 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							

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# Pocket filter Biostat





HIGH QUALITY

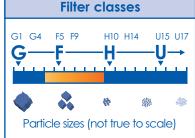
#### **Applications**

- 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

#### 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 Polyester white)

	_
CONFIDENCE	
IN TEXTILES	
Geprüft auf Schadstoffe	
Testé substances nocives	
Control de sustancias nocivas	
Tested for harmful substances	
Проверен на вредные вещества	
nach/d'après/según/according to/	
согласно Oeko-Tex® Standard 100	
06.0.44570 Hohenstein	



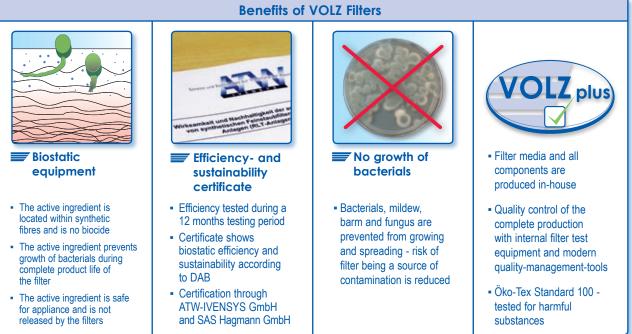


- Filter class F5 brown version (white\*)
- Filter class F6 green version
- Filter class F7 pink version
- Filter class F8 yellow version
- Filter class F9 white version

\*Polyester version without Pocket-Fitting, no 3-layer media

#### **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



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Pocket filter Biostat

		St	anc	dar	d v	ersi	ons	Bio	osta	at F	5 -	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	Width x Height	Depth	Number of pockets	Filter area	Pocket-Fitting*3			
	mm		m²			mm		m²			mm		m²				
					F5	(P	oly	este	er)								
m *1	360	6	2.7	-	m *2	360	6	2.5	-	mm *2	360	6	1.4	-			
592 x 592 mm	500 6 3.9 - <b>E</b> 600 6 4.5 - <b>E</b>	(490 m	500	6	3.4	-	592 x 287 m	500	6	2.0	-						
592 >	600	6	4.5	-	592 >	600	6	4.0	-	592 >	600	6	2.2	-			
m *1	360	5	2.3	-	m *1	360	3	1.4	-	mm *2	360	3	0.7	-			
490 x 592 mm	500	5	3.2	-	x 592 mm	500	3	1.9	-	x 287 m	500	3	1.0	-			
490 x	600	5	3.8	-	287 x	600	3	2.3	-	287 ×	600	3	1.1	-			
		F5	5 - F	9	(Prc	gre	essi	ve	mic	rof	ibe	r)					
	360	6	2.9	х		360	6	2.5	-		360	6	1.5	-			
	360	8	3.9	х		300	8	3.2	-		360	8	2.0	-			
	380	10	4.8	х	380 <b>235 × 430 mm</b> 500 535 × 600 600 635	380	10	4.2	-	*2	380	8	2.1	-			
*1	500	12	5.7	х			12	5.0	-		500	10	2.5	-			
	500	6	4.1	х			6	3.4	-		* 500	6	2.1	-			
2 m	500	8	5.4	х		500	8	4.4	-		500	8	2.7	-			
592 x 592 mm	535	10	6.5	х		592 x 49	592 x 49	x 49	535	10	5.8	-	592 × 287	535	10	3.4	-
92	000	12	7.8	х				000	12	6.9	-	92	000	12	4.1	-	
~	600	6	4.8	х			600	6	4.0	-	~	600	6	2.5	-		
	000	8	6.5	х				000	8	5.2	-		000	8	3.2	-	
	635	10	7.6	х		10	6.8	-	67	635	8	3.4	-				
	000	12	9.1	х		000	12	8.1	-		000	10	4.1	-			
	360	5	2.5	х		360	3	1.5	х		360	3	0.8	-			
		6	2.9	х			4	2.0	х			4	1.0	-			
	380	8	3.8	х		380	5	2.4	х		380	5	1.3	-			
*1		10	4.8	х	*		6	2.9	х	*2		6	1.5	-			
	500	5	3.4	х		500	3	2.0	х	E	500	3	1.0	-			
490 x 592 mm		6	4.1	х	287 x 592 mm		4	2.7	х	87 n		4	1.3	-			
x 5	535	8	5.2	х	× 5	535	5	3.2	х	287 × 287	535	5	1.7	-			
490		10	6.5	х	287		6	3.9	х	287		6	2.1	-			
	600	5	4.0	Х		600	3	2.4	Х		600	3	1.2	-			
		6	4.8	Х			4	3.2	Х			4	1.6	-			
	635	8	6.1	Х		635	5	3.8	Х		635	5	2.0	-			
		10	7.6	Х			6	4.6	Х			6	2.4	-			
						me mi epths a					incuml	pent					
,	*1 Star *2 Spe *3 Opti	cial si	zes sti	itched		gainst	surch	arge						_			



Pocket filters

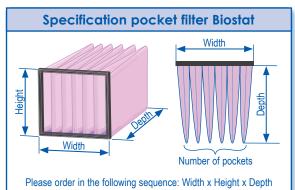
Filtration mats

Pleat filters (cassettes)

**HEPA filters** 

Extra-/special filters

Accessories



#### Assembly instruction for correct installation

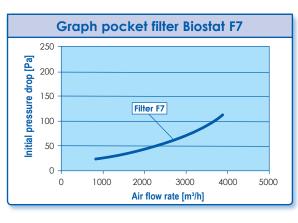




Correct Installation! Pockets stand vertically

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

	Pocket filter Biostat; F7 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							



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HIGH QUALITY



#### **Applications**

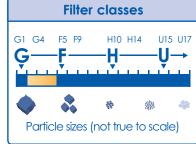
For pre filtration in aerial engineering devices of all kinds

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

#### 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

#### CONFIDENCE IN TEXTILES Geprüft auf Schadstoffe Testé substances nocives Control de sustancias nocives Control de sustancias nocives Tested for harmful substances Проверен на вредные вещества nach/dapies /según /according to/ corracte Oeko-Tex\* Standard 100 6.0.44570 Hohenstein



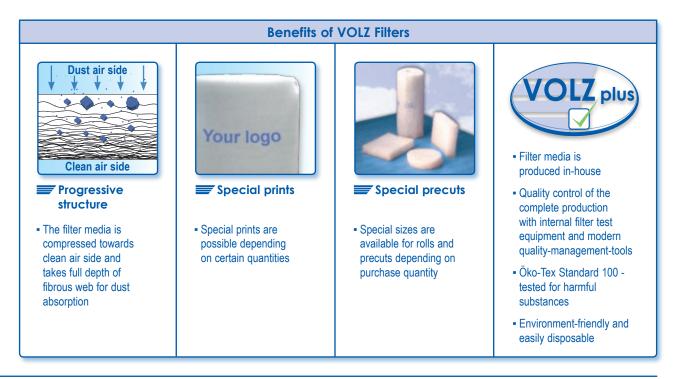
Pre filtration mats

#### Classification acc. to EN 779

- Filter class G2
- Filter class G3
- Filter class G4

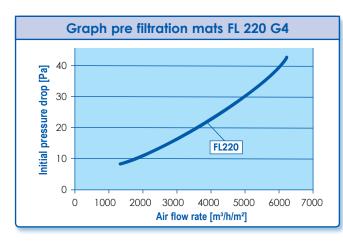
#### Material characteristics

- 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



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Versions pre filtration mats G2 - G4							
Product	Filter classes	Material thickness approx.	Surface weight approx.	Initial pressure drop*	Recommended final pressure drop	Air velocity	Average arrestance
		mm	g / m²	Ра	Ра	m / s	%
FL100	G2	5	100	20	250	1.5	65 - 80
FL150	G2	10	150	25	250	1.5	65 - 80
FL200	G3	20	200	35	250	1.5	80 - 90
FL220	G4	22	220	35	250	1.5	≥ 90
V15/350	G4	18	280	50	250	1.5	≥ 90
V15/400	G4	22	350	60	250	1.5	≥ 90
EA30	G4	30	350	60	250	1.5	≥ 90
EA40	G4	40	400	60	250	1.5	≥ 90
EA50	G4	50	450	65	250	1.5	≥ 90
*flat sheet tested							



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# Fine filtration mats

# Product catalogue: VOLZ Filters

HIGH QUALITY



#### **Applications**

- For general industrial paintings (V300S, V400S)
- For final filtration of supply air in painting and paint-spraying units (V500S, V560G, V600G, V5micron)

#### Versions

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

# Filter classes G1 G4 F5 F9 H10 H14 U15 U17 G F H V W Particle sizes (not true to scale)

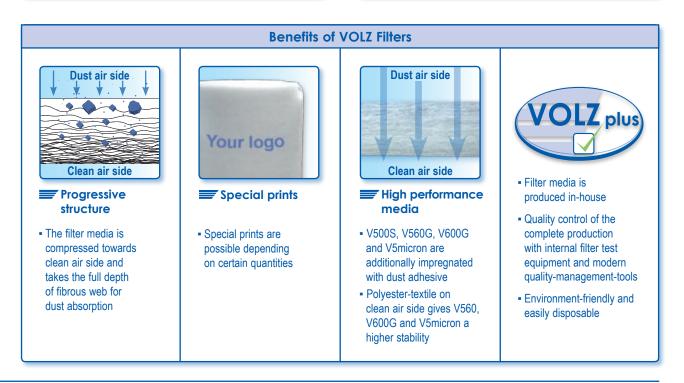
Fine filtration mats

#### Classification acc. to EN 779

- Filter class F5
- Filter class F6

#### 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



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**Pocket filters** 

Γ

Pleat filters (cassettes)

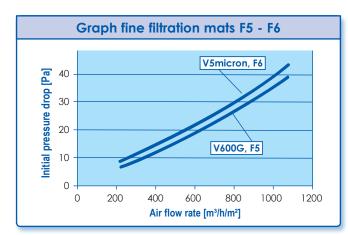
**HEPA filters** 

Extra-/special filters

Accessories

5				
			Versi	on
	Product	Filter class	Material thickness approx.	
			mm	
	V300S	F5	15	

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 / m²	Pa / m²	Pa / m²	m³ / h / m²	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
V560G	F5	19	500	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
*flat sheet tested								



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HIGH QUALITY

#### **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.

#### 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-media has to be dried and disposed

#### Dust-Stop (yellow) Paint-Stop (green)

Classification

\*Paint mist Arrestance

# 2" $m \triangleq$ Filter class G3\* 4" $\triangleq$ Filter class G4\* \*According to EN 779

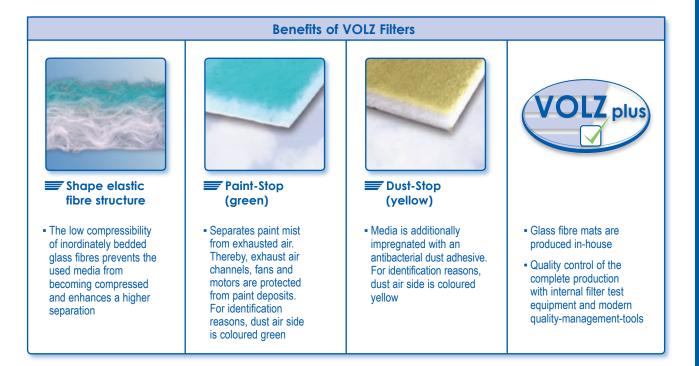
#### **Material characteristics**

Paint-Stop (green):

- Temperature resistant up to max. 180°C
- Contains no silicone or other lacquer harming substances
- Fire prevention requirements according to DIN 53438 (F3)

#### Dust-Stop (yellow):

- Temperature resistant up to max. 80°C
- Additionally impregnated with antibacterial dust adhesive
- Contains no silicone
- Fire prevention requirements according to DIN 53438 (F3)



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FILTERS

**Pocket filters** 

Pleat filters (cassettes)

**HEPA filters** 

Extra-/special filters

	Standa	rd versio	ns glass fibre n	nats	
Product	Filter class	Arrestance	Material thickness approx.	Roll length*	Roll width*
			mm	m	m
Paint-Stop (green) 2"	-	94%	50	20 / 25 / 80 / 91	2.0 / 1.0 / 0.7 / 0.5
Paint-Stop (green) 3"	-	96%	70	20 / 25 / 80 / 91	2.0 / 1.0 / 0.7 / 0.5
Paint-Stop (green) 4"	-	98%	100	20 / 25	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 1"	G2	-	25	20	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 2"	G3	-	50	20	2.0 / 1.0 / 0.7 / 0.5
Dust-Stop (yellow) 4"	G4	-	100	20	2.0 / 1.0 / 0.7 / 0.5
* Further dimensions on request					

Glass fibre mat G3						
Product	Material thickness approx.	Initial pressure drop	Recommended final pressure drop	Nominal air flow rate	Lacquer separation arrestance*	
	mm	Ра	Ра	m³ / h / m²	%	
Paint-Stop (green) 3"	70	4 - 10	80	2500 - 6300	95	

The measured data relates to 1m<sup>2</sup> 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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- GV180K - up to max. 150°C

- GV180G - up to max. 200°C

- DB200/0 - up to max. 200°C

HT-glass fibre mats

clean air side is enforced

with synthetic fibre fleece

clean air side is enforced

with glass fibre fleece

clean air side with glass supporting tissue

- GV180K

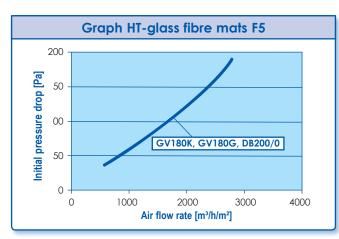
- GV180G

- DB200/0



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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	Ра	Ра	m³ / h / m²	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



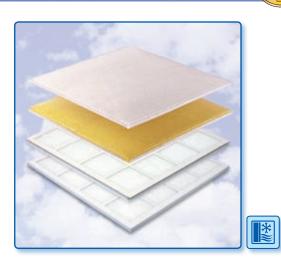
VOLZ Luftfilter GmbH & Co. KG

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HIGH QUALITY



#### **Applications**

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

#### 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

Temperatur-

**beständigkeit** 

- SK100 - up to max. 100°C

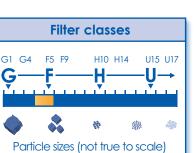
- ZH120 - up to max. 120°C

- AL200 - up to max. 200°C

- UG300 - up to max. 300°C

Other dimensions see next page

# **Filterpacks**



Classification acc. to EN 779	
• UG300 - filter class G4 - white version	
• AL200 - filter class F5 - yellow version	
- ZH120 - filter class F5 - white version	$\square$

• SK100 - filter class F5 - white version

#### Material characteristics

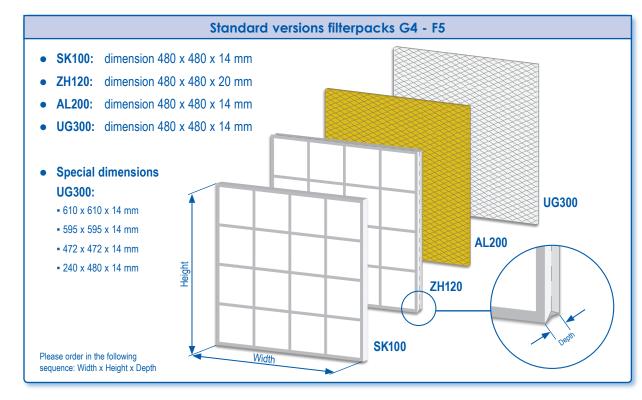
- Tested according to EN 779
- Humidity resistant up to 100% r. h.
- SK100 / ZH120 synthetic media
- AL200 / UG300 glass fibre media
- Contains no silicone

**Benefits of VOLZ Filters** 

Filterpacks



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



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	Ра	Ра	m³ / h	%	%
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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HIGH QUALITY



#### **Applications**

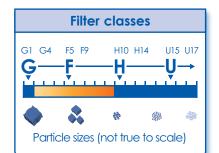
For pre- and fine dust filtration in

- Aerial engineering plants and devices of all kinds
- Air conditioning and paint shops

#### Versions

- Standard sizes with stamped cardboard frame (G4 only)
- 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 special sizes or with fine filtration media are addition ally equipped with metal expanded mesh on clean air side

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Classification acc. to EN 779

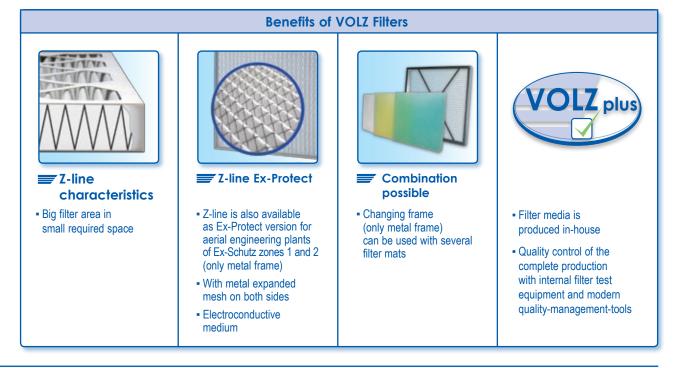
- Panel filter G2
- Panel filter G3
- Panel filter G4
- Panel filter F5
- Z-Line F5
  Z-Line F6
  Z-Line F7

- Z-Line G4

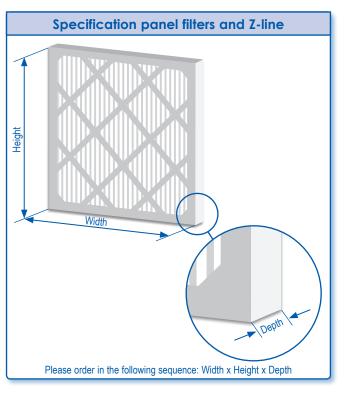
- Z-Line F8
- Z-Line F9

#### Material characteristics

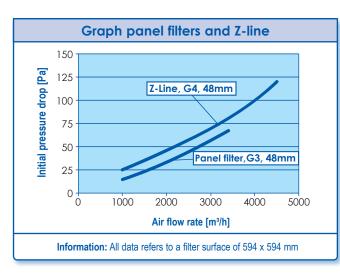
- Tested according to EN 779
- Fire prevention requirements according to DIN 53438 (F1)
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 80°C depending on type of frame



FILTERS



Panel filter Dust-S 594 x 594 x 48mm		Z-line - filter 594 x 594 x 48mm; G4		
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 <sup>3</sup> /h)	2000	Nominal air flow rate (m <sup>3</sup> /h)	3400	
Average arrestance (%)	80 - 90	Average arrestance (%)	≥ 90	



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	Standard versions frame filter G2 - F9					
Width x Height	Depth	Filter area panel filter	Filter area Z-line			
	mm	m²	m²			
mm	24**	0.17	*			
290 x 594 mm	48	0.17	0.6			
290	96	0.17	1.0			
mm	24**	0.19	*			
393 x 495 mm	48	0.19	0.7			
393	96	0.19	1.3			
mm	24**	0.24	*			
393 x 622 mm	48	0.24	0.9			
393	96	0.24	1.3			
mm	24**	0.25	*			
x 495	48	0.25	0.9			
495 >	96	0.25	1.7			
mm	24**	0.31	*			
495 x 622 mm	48	0.31	1.1			
495	96	0.31	1.7			
mm	24**	0.36	*			
594 x 594	48	0.36	1.3			
594	96	0.36	2.0			
	filter: G2 - : G4 - F9	F5				

\* Special sizes on request

\*\* Cardboard frames with 24 mm

Other frame types with 25 mm

**HEPA filters** 

**Pocket filters** 

Filtration mats

eat filters (cassettes)

HIGH QUALITY



#### **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

#### 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

#### nach/d'après/según/according to/ согласно Oeko-Tex® Standard 100 06.0.44570 Hohenstein 8 jeprüft Hygie ILH BERLIN

#### Geprüft auf Schadstoffe **Filter classes** Testé substances nocives Control de sustancias nocivas Tested for harmful substances Проверен на вредные вещества H10 H14 U15 U17 F5 G4 Н G Particle sizes (not true to scale)

CompaPleat

#### Classification acc. to EN 779

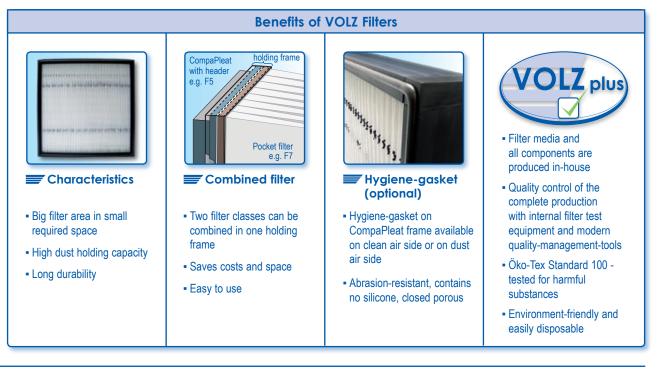
• Filter class F5

IN TEXTILES

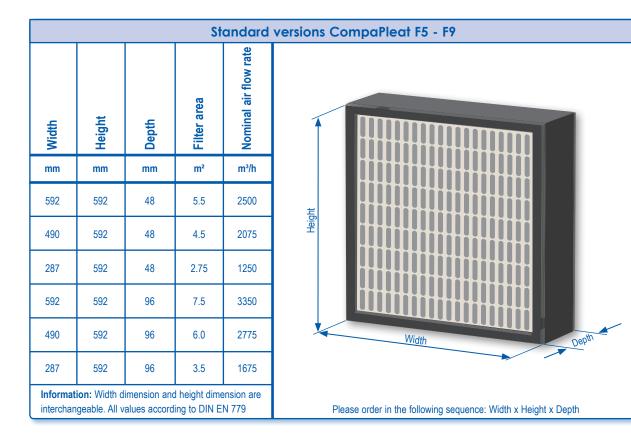
- Filter class F6
- Filter class F7
- Filter class F8
- Filter class F9

#### **Material characteristics**

- Tested and certified by ILH Berlin
- 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



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#### 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

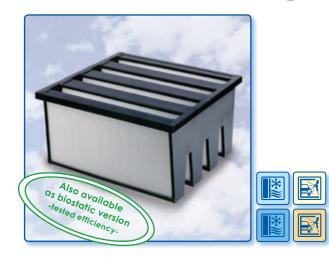
Information: For "CompaPleat with header" version, description "header at clean air side" or "header at dust air side" is necessary

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#### **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

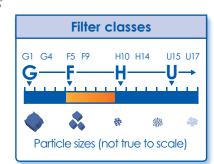
#### Versions

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

IN TEXTILES Geprüft auf Schadstoffe Testé substances nocives Control de sustancias nocivas Tested for harmful substances Проверен на вредные вещества nach/d'après/según/according to/ согласно Oeko-Tex® Standard 100 06.0.44570 Hohenstein

HIGH QUALITY





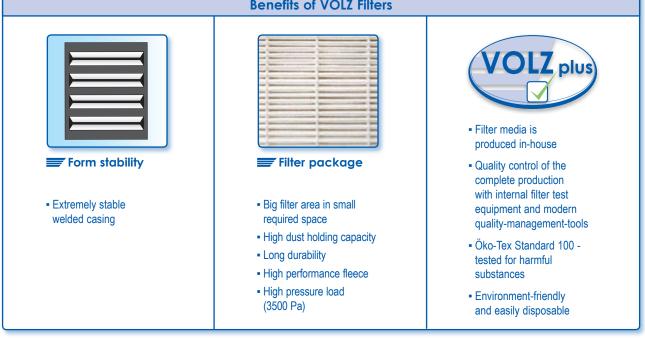
**Compact filter** 

#### Classification acc. to EN 779

- Filter class F5
- Filter class F6
- Filter class F7
- Filter class F8
- Filter class F9

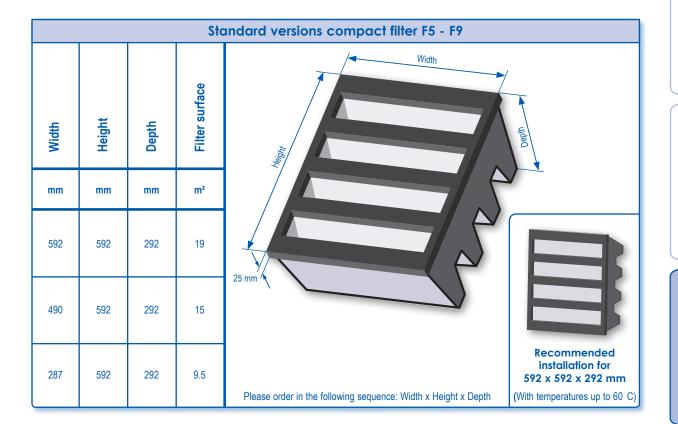
#### **Material characteristics**

- Tested and certified by ILH Berlin
- 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

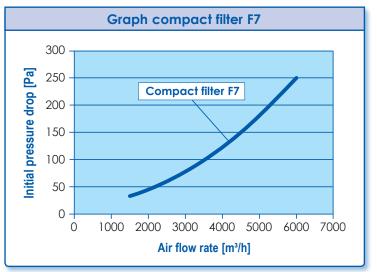


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### **Benefits of VOLZ Filters**



Compact filter; F7 592 x 592 x 292 mm; 8 filter packs					
Nominal air flow rate (m <sup>3</sup> /h)	3400	5000			
Initial pressure drop (Pa)	95 180				
Recommended final pressure drop (Pa)	650				
Average efficiency (0.4µm) (%)	80 - 90				
Filter area (m²) 19					
Information: The recommended final pressure drop for compact filters is 650 Pa (filter classes F5 - F9)					



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HIGH QUALITY

**B** 



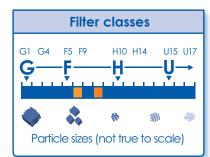
#### **Applications**

- 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

#### Versions

- Commercial standard sizes for frame depths of 22 mm, 40 mm, 55 mm, 78 mm and 150 mm
- Clean air side and dust air side with protection against handling (Clean air side no possibility of nitrate deposit)
- Variant 1 Standard protection grid: Protection grid clean air = Steel (aluminized) Protection grid dust air = Steel (galvanized)
- Variant 2 Premium protection grid: Protection grid clean air = Stainless steel Protection grid dust air = Aluminium

High temperature filter (HT-filter)

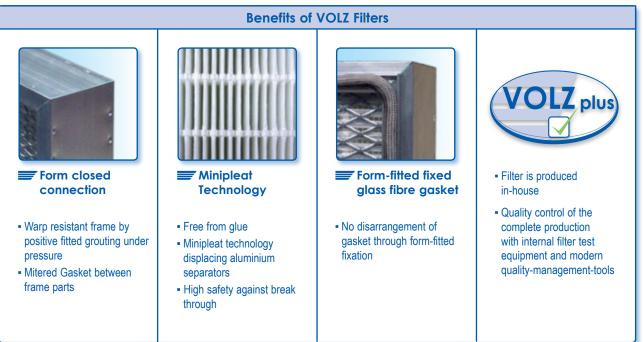


#### Classification acc. to EN 779

- Filter class F6
- Filter class F8

#### Material characteristics

- Tested according to EN 779
- Glass fibre media
- 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



**Pocket filters** 

**Filtration mats** 

leat filters (cassettes)

**HEPA filters** 

Extra-/special filters

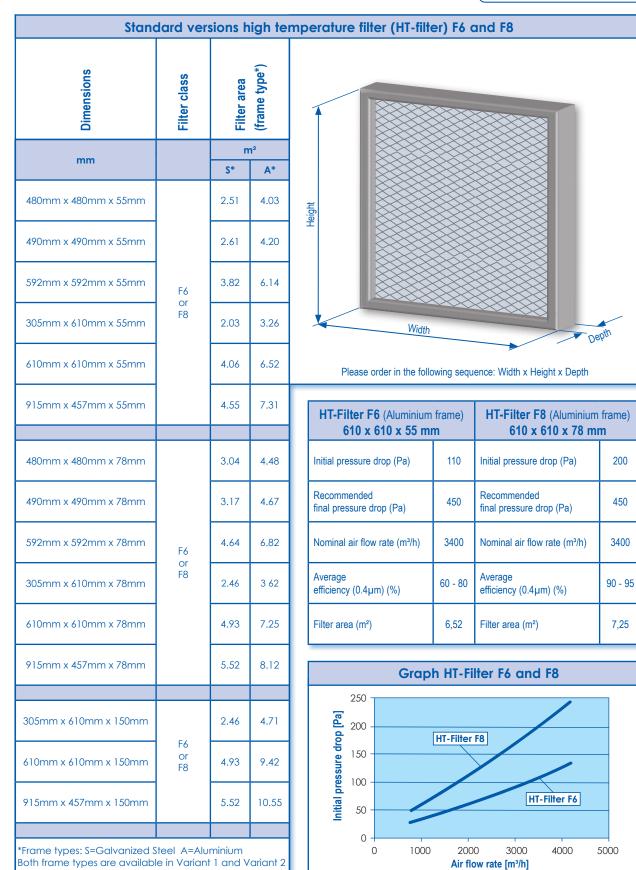
Accessories

200

450

3400

7,25



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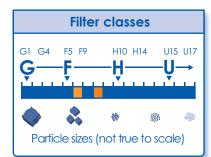
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HIGH QUALITY



# High temperature filter (HT-filter) for 292 mm installation depths



#### **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 (HT-292 in the basis frame) and limited space

#### Versions

- Frame depths 292 mm (HT-292)
- Frame material with galvanized steel
- Clean air side and dust air side with protection against handling (Clean air side no possibility of nitrate deposit)
- Variant 1 Standard protection grid: Protection grid clean air = Steel (aluminized) Protection grid dust air = Steel (galvanized)
- Variant 2 Premium protection grid: Protection grid clean air = Stainless steel Protection grid dust air = Aluminium

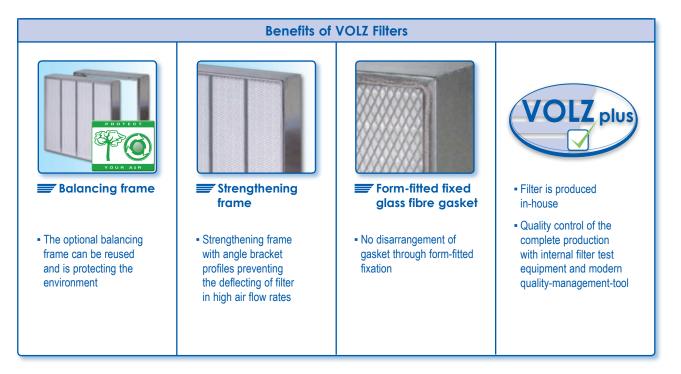
# Classification acc. to EN 779

- Filter class F6
- Filter class F8

#### Material characteristics

- Tested according to EN 779
- Glass fibre media
- Humidity resistant up to 100% r. h.
- Temperature resistant up to max. 230°C (380°C\*)
- Spacer (separators): Glass fibre paper
- Contains no silicone or other lacquer harming substances

\* Please not the instruction of temperatures. These is separately available



FILTERS

**Pocket filters** 

**Filtration mats** 

cassettes

<u>eat filters (</u>

**HEPA filters** 

Extra-/special filters

Accessories

#### Application example HT-292

Both components of the HT-292 filter (standard version) will be delivered and assembled complete with the first order. With the second delivery it is only necessary to order component 1. The following pictures showing how to assemble the components.



Component 1: HT-Filter with basis frame Component 2: Balancing frame



The frames are fitted together

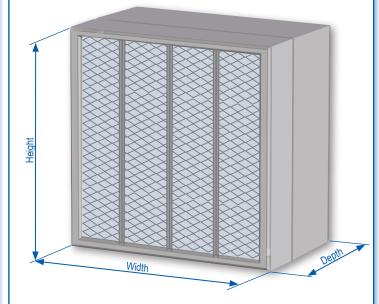


Putting the frames with pushing into position



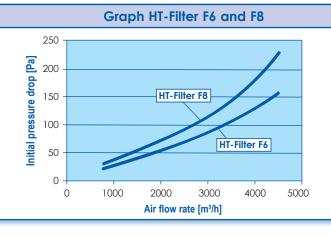
Form-fitted combination and fixation with bending of the closing ear

#### HT-292 – Version F6 and F8



Width	Height	Depth	Filter area
610 mm	610 mm	292 mm	12.9 m²
305 mm	610 mm	292 mm	6.45 m²

HT-Filter F6 610 x 610 x 292	mm	HT-Filter F8 610 x 610 x 292	mm
Initial pressure drop (Pa)	110	Initial pressure drop (Pa)	140
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)	12.9	Filter area (m²)	12.9



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HIGH QUALITY

\*



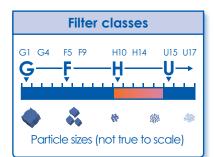
#### **Applications**

- In clean rooms for:
- Research
- Medicine
- Pharmacy
- Electrotechnology
- Microtechnology

#### 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

# **HEPA filter**



#### Classification acc. to EN 1822

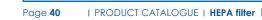
- Filter class H10
- Filter class H11
- Filter class H12
- Filter class H13
- Filter class H14

#### **Material characteristics**

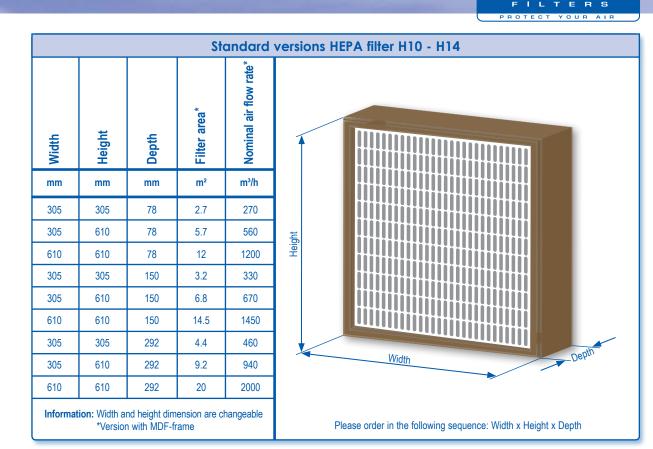
- Tested according to EN 1822
- Humidity resistant up to 100% r. h. (depending on version)
- Temperature resistant up to max. 70°C
- Contains no silicone



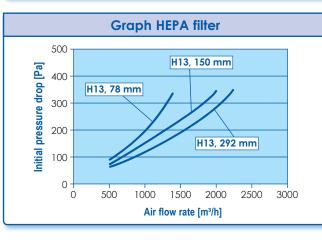
Filter box



**HEPA filter** 



HEPA filter H10 - H14	610 x 610 mm depth: 78 mm	610 x 610 mm depth: 150 mm	610 x 610 mm depth: 292 mm
Initial pressure drop (Pa)	250	215	280
Recommended final pressure drop (Pa)	600	600	600
Nominal Air flow rate (m³/h)	1200	1450	2000
Arrestance for MPPS (%)	≥ 99.95	≥ 99.95	≥ 99.95
Filter area (m²)	12	14,5	20



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# SepaPaint





HIGH QUALITY

#### **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

#### Versions

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

#### Material characteristics

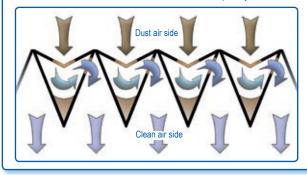
- Self-rigid due to special pleating geometry and high-quality cardboard
- Humidity resistant up to 100% r. h.
- Temperature resistant up to 100°C
- Arrestance up to 98% (depending on used lacquer)

#### Vorteile bei VOLZ Luftfilter L plus Ways of Cost saving installation Vertical and horizontal In contrast to deflectors - Quality control with there is no extensive installation possible internal filter test maintenance necessary equipment and modern - Can be combined while perceiving a better quality-management-tools with "Paint-stop" arrestance Environment-friendly and Washout systems cause easily disposable considerably higher costs for investment, operation, maintenance and disposal compared to SepaPaint

SepaPaint

#### 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

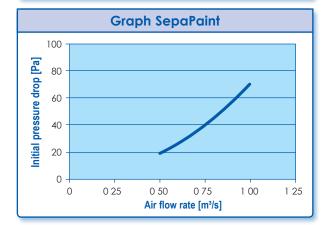


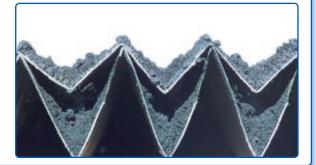
	Sto	Indarg	d versi	ons S	epaPa	aint	
approx. length	Height	Filter area (approx.)	Initial pressure drop at 0.5 m/s	Initial pressure drop at 0.75 m/s	Initial pressure drop at 1.0 m/ss	Recommended final pressure drop	Paint mist separation arre- stance at 0.75 m/s <sup>1</sup>
m	mm	m²	Pa	Pa	Pa	Pa	%
13	750	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

<sup>1</sup>Arrestance of overspray depends on paint consistency, concentration, temperature and type of ink mist









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**Pocket filters** 

# Activated coal cartridges

#### Product catalogue: VOLZ Filters

HIGH QUALITY



# 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

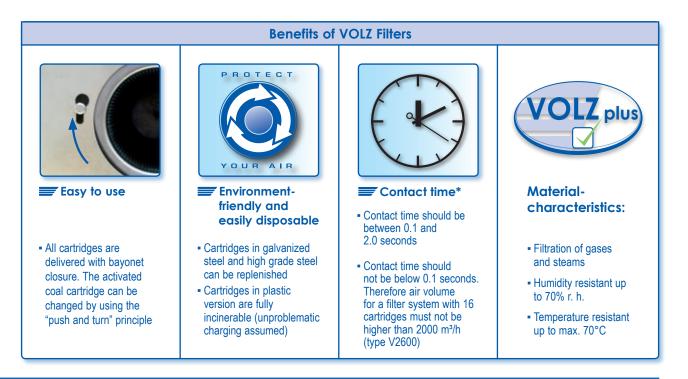
- Holding frame material:
   Galvanized steel
- Stainless steel 1.4301
- Compatible for cartridge types V1000, V2600 and V3500
- Optional with cartridge key

#### Contact time\* (formula)

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

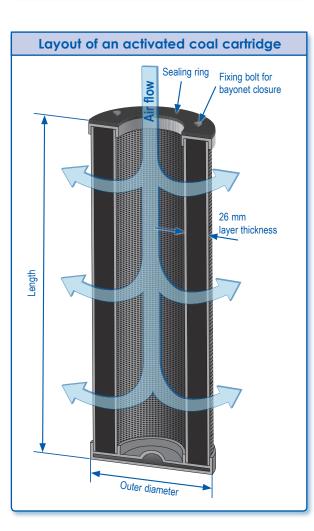
nj Support: 1m<sup>3</sup> = 10001

x 3600



FILTERS

Standard versions activated coal cartridges								
Outer diameter	Length	Casing	Cartridge type	Filling volume	Filling capacity	Layer thickness		
mm	mm			litre	kg	mm		
145	250	Galvanized steel	V1000S	2.9	1,45	26		
145	250	Stainless steel 1.4301	V1000E	2.9	1,45	26		
145	457	Galvanized steel	V2600S	4.3	2,15	26		
145	457	Stainless steel 1.4301	V2600E	4.3	2,15	26		
145	457	Plastic	V2600K	4.3	2,15	26		
145	600	Galvanized steel	V3500S	5.7	2,85	26		
145	600	Stainless steel 1.4301	V3500E	5.7	2,85	26		



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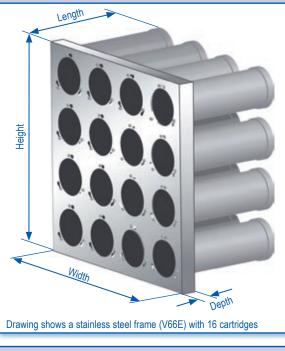
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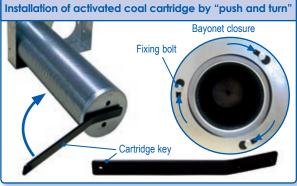
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Standard holding frame for activated coal cartridges								
Frame width	Frame height	Frame depth	Material	Type	Compatible for cartridge type	Number of cartridges per frame		
mm	mm	mm						
610	610	75	Galvanized steel	V66VS	V1000	16		
508	610	75	Galvanized steel	V56VS	V2600	12		
305	610	75	Galvanized steel	V36VS	V3500	8		
305	305	75	Galvanized steel	V33VS	V3300	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	V2600	8		
305	305	75	Stainless steel 1.4301	V33E	v 3300	4		

Layout of a holding frame for activated coal cartridges

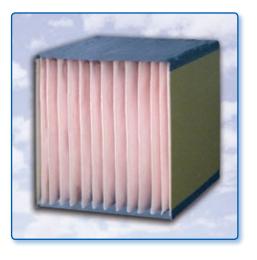




**Pocket filters** 

Filtration mats

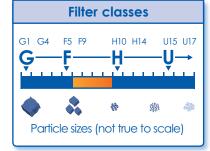
# **Basket filter**





HIGH QUALITY

#### CONFIDENCE IN TEXTILES Geprüft auf Schadstoffe Testé substances nocives Control de sustancis nocivas Tested for harmful substances Doesep# wa Bepatwie sequectra nach/d'après/segûn/according to/ cornaceno Oeko-Tex\* Standard 100 06.0.44570 Hohenstein



#### Classification acc. to EN 779

- Filter class F6 green version
- Filter class F7 pink version
- Filter class F8 yellow version
- Filter class F9 white version

#### **Material characteristics**

**Applications** 

For fine dust filtration in heat ventilation and air conditioning

- Pharmaceutics, fine-mechanical and food industry

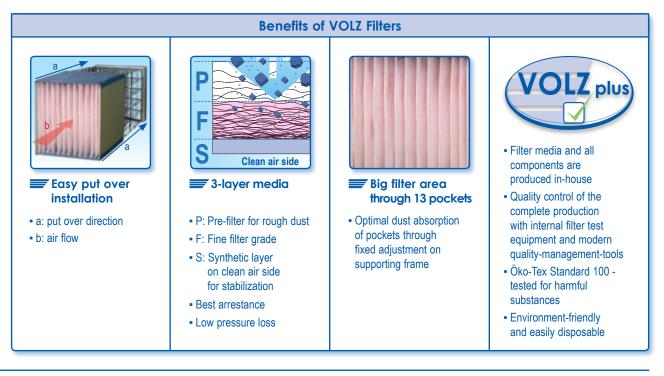
- Tested according to EN 779

devices and plants of all kinds

Offices, hospitals, computing centres

- Prefiltration, e.g. for HEPA filters

- 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



**Pocket filters** 

**Filtration mats** 

L

Pleat filters (cassettes)

**HEPA filters** 

				Stando	ard vers	ions basket filter F6 - F9
Filter class	Width	Height	Depth	Filter area	Nominal air flow rate	
	mm	mm	mm	m²	m³/h	
F6	587	587	640	9.8	3400	Height
F7	587	587	640	9.8	3400	±
F8	587	587	640	9.8	3400	Width
F9	587	587	640	9.8	3400	Please order in the following sequence: Width x Height x Depth

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Accessories

HIGH QUALITY

\*



#### **Applications**

- Deliverable Systemes: AAF / CEAG FARR / SHIRP DELBAG TROX
- Media:
- 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-house

#### Quality control of the complete production with internal filter test

equipment and modern quality-management-tools

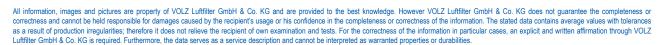
 Environment-friendly and easily disposable

#### VOLZ Luftfilter GmbH & Co. KG

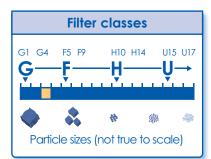
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## Roller tape filter



#### Classification acc. to EN 779

- Filter class G3

#### Anwendungen

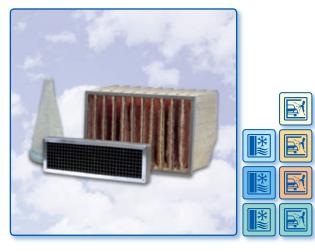
- For separation of rough dust in air conditioning plants

System	Media	Media Filter classes		Role length	Role width
05	~	<u> </u>	Dimension	m	m
		G3 (EU3)	3	20	0.836
AAF / CEAG		G3 (EU3)	4	20	1.141
Metal bobbin	Synthetic/	G3 (EU3)	5	20	1.446
with side-discs	glass	G3 (EU3)	6	20	1.751
		G3 (EU3)	7	20	2.056
	Synthetic/ glass	G3 (EU3)	3	20	0.838
FARR / SHIRP Cardboard bobbin		G3 (EU3)	4	20	1.143
		G3 (EU3)	5	20	1.448
		G3 (EU3)	6	20	1.753
		G3 (EU3)	7	20	2.058
		G3 (EU3)	А	20	0.950
TROX		G3 (EU3)	В	20	1.250
INOX	Synthetic/ glass	G3 (EU3)	С	20	1.550
Cassette	giass	G3 (EU3)	D	20	1.850
		G3 (EU3)	E	20	2.150
		G3 (EU3)	1	20	0.810
DELBAG Cardboard bobbin		G3 (EU3)	2	20	1.110
	Synthetic/ glass	G3 (EU3)	3	20	1.410
	yiass	G3 (EU3)	4	20	1.710
		G3 (EU3)	5	20	2.010

PK RF 01062010-1 1 www.volzfilters.com



# Extra-/special filter



HIGH QUALITY

#### **Applications**

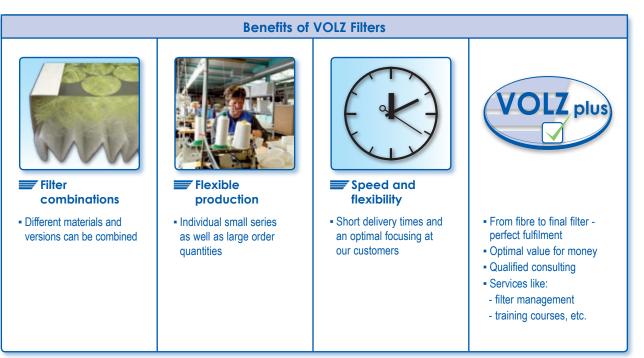
- Filter for different sectors of air conditioning and ventilation technology, painting and drying technology as well as filters for rotary equipment

#### **Materials**

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

#### Versions

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



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PRODUCT CATALOGUE | Extra-/special filter |

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Filtration mats

Page **49** 

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# Holding frame

#### Product catalogue: VOLZ Filters



HIGH QUALITY

#### **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

#### **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

#### Versions

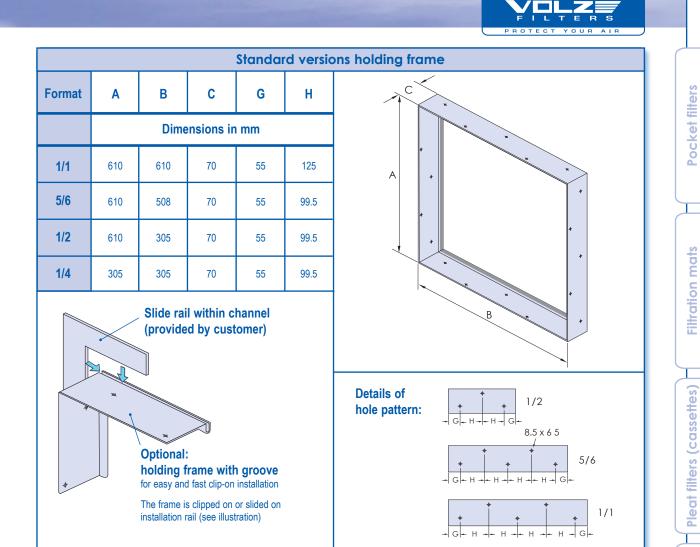
Holding frame and

equipment for filter walls

- 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

#### **Benefits of VOLZ Filters** VOLZ plus F Hygiene-gasket **Filter Optimal** - Holding frame and combinations adjustment (optional) equipment are produced in-house - Several clamp ranges: Conical stampings enable Hygiene-gasket on holding frame an easy installation and Quality control of the - 20 mm and 25 mm centring of the filter. complete production - 48 mm and 50 mm Abrasion-resistant, Therefore you get an with internal filter test silicone-free, closed optimal adjustment equipment and modern porous and sealing of the filter quality-management-tools

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	Modul	ar installe	ation syst	em – fittiı	ngs and s	stabilizati	ion sheet	S	
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	
l in mm	915	1118	1220	1525	1830	2135	2440	2745	3050
8 5 x 6 5 22 x 15	E + + + + + -				I = J = L = Hol are	see table abo 77 [mm] 200 [mm] 126 [mm] e patterns of fi compatible wi	ngs and stabiliz ove D = 40 [mm E = 2 [mm F = 29 [mm ttings and stabilith hole patterns	] ] ] lization sheets	
Information: Wall thickn sheets ave galvanized	erages 1 25 mm	frames, ittings and in standard vers		Robert-Bos	filter GmbH & sch-Straße 25 orb am Necka	Phone: +	49 7451 5516- 49 7451 5516-		volzfilters.cc volzfilters.cc

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**HEPA filters** 

Extra-/special filters

# General Terms and Conditions of Business – VOLZ Luftfilter GmbH & Co. KG

#### Applicable in respect of:

- 1. a person who upon contract finalization engages in his/her commercial or self-employed activities (business person);
- 2. a legal entity under public law or a special fund under public law.

#### I. General

- 1. All deliveries and services will be subject to the present Terms and Conditions of Business and any other separately contracted arrangements. Even after acceptance of the order, any different terms of purchase of the Customer will not become integral components of the contract. Failing specific arrangements, a contract will become finalized with the written order confirmation of the Supplier.
- 2. The Supplier will retain title and copyright to all samples, quotations, drawings and similar information of physical and non-physical nature, also in electronic form; these will not be rendered accessible to any third party. The Supplier undertakes only to allow third-party access to information and documents designated as classified by the Customer subject to the consent of said Customer.
- 3. The costs of samples and drafts produced at the request of the Customer will be refunded to the Supplier. If a delivery is based on samples, no guarantee will be given for 100% conformity therewith.
- 4. The description of goods in prospectuses or other documentation will not embody any guarantee as defined in Section 443 (1) BGB [German Civil Code].

#### II. Price and Payment

- 1. The prices will be subject to change and failing specific arrangement will apply ex works (ex works, Incoterms 2000) including packaging and loading at the works, yet excluding unloading. Sales tax in the respective amount required by law will be added to the prices.
- 2. Failing specific arrangement, payment will be immediate upon the receipt of the goods without any deduction to the account of the Supplier. The Supplier will also be entitled to deliver only in return for advance payment. Representatives of the Supplier will not be entitled to receive payments. The right is retained to accept cheques or bills. With the deposit of bills, all disbursements and interest will be charged to the Customer.
- 3. The Customer will only be entitled to retain or offset payment against counterclaims to the extent its counterclaims are undisputed or have been established by declaratory judgment.
- 4. Should the Customer default in payment, the Supplier will be entitled to call for the immediate payment of all amounts not yet due and the amounts owed. Should we be entitled by law or by contract to the payment of interest, an interest rate of 4% in excess of the respective basic banking rate of the European Central Bank will apply, subject to further claims to compensation.

#### III. Timeframe and Scope of Delivery

- 1. The delivery deadline will be specified in the agreements between the Contracting Parties. Compliance of the Supplier therewith will depend on the clarification of all commercial and technical issues between the Contracting Parties and the satisfaction of all duties for which the Customer is responsible, such as, for example, the procurement of the required official certificates or permits or the rendering of a down-payment. Failing this situation, the delivery deadline will be deferred accordingly. This will not apply if the Supplier is responsible for the delay.
- 2. Compliance with the delivery period will depend on accurate and timely supplies to the Supplier. The Supplier will give notification of any indication of delay as soon as possible.
- 3. Compliance with the delivery period will be deemed given when the item to be delivered has left the Supplier's works by the lapse of the delivery period or notification of its readiness for despatch has been made.
- 4. If the despatch and/or acceptance of the item to be delivered are delayed for reasons for which the Customer is responsible, the Customer will bear all costs generated by the delay starting 2 days after notification of the item's readiness for despatch or for the acceptance procedure.
- 5. Should failure to comply with the delivery period be attributable to force majeure, industrial strife or other incidents outside the scope of influence of the Supplier, the delivery period will be lengthened accordingly. The Supplier will inform the Customer as soon as possible of the beginning and end of such circumstances.
- 6. Without setting any specific period of grace, the Customer will be entitled to rescind the contract if the delivery in full becomes ultimately impossible before the transfer of risk. The Customer will also be entitled to rescind the contract if it becomes impossible to carry out one part of the delivery ordered and the Customer has a justified interest in rejecting the partial delivery. Should this not be the case, the Customer will pay the price contracted for the part of the delivery in ques tion. The same will apply in the event of incapacity of the Supplier. In other respects Section VII.2 will apply. Should the impossibility or incapacity evolve during the course of default of acceptance or if the Customer is solely or largely responsible for these circumstances, the Customer will still be bound to render payment.
- 7. If the Supplier defaults so that the Customer incurs damages, the Customer will be entitled to call for an inclusive indemnity for the delay. For each full week of the delay, this will amount to 0.5% in whole, but 5% at the most of the value of the part of the entire delivery that cannot be used on time or as contracted as a result of the delay. Should after due date the Customer set the Supplier an appropriate period of grace for performance in the light of the exceptions set down by the law the Customer will be entitled to rescind the contract subject to the provisions of the law. Farther-reaching claims derived from the default of delivery will be exclusively subject to Section VII.2 of the present Terms and Conditions of Business.

#### IV. Transfer of Risk, Acceptance Procedure

- 1. The risk will pass to the Customer once the item to be delivered has left the works of the Supplier, even if delivery is carried out in instalments or the Supplier is providing other services, such as payment of the despatch costs or delivery and installation. Where an acceptance procedure is due, this will be determinant for the transfer of risk. This will take place immediately with the acceptance procedure or alternatively after notification from the Supplier of readiness for acceptance. The Customer will not refuse acceptance in the event an insignificant defect is established. Complaints will be lodged inside one week.
- If despatch and/or the acceptance procedure is delayed or not carried out owing to circumstances that are not attributable to the Supplier, the risk will pass to the Customer on the day readiness for despatch or the acceptance procedure are notified. The Supplier undertakes to ensure insurance cover at the expense of the Customer, as the Customer requires.
- 3. Delivery in instalments and excess or short deliveries for specifically manufactured items (up to 10%; for volumes below 100 pieces per type even more) will be admissible, where it is reasonable to expect the Customer to accept them.

#### V. Retention of Title

- 1. The Supplier will retain title to the delivered item until all payments from the delivery contract have been received. Should the Customer fail to meet its contractual duties, in particular in the event of default of payment, we will be entitled to rescind the contract and to call for the surrender of the delivered item; the Customer undertakes to surrender the item. The costs of fetching the item back will be borne by the Customer.
- 2. The Customer will notify the Supplier immediately of any attachments or confiscation or other third-party disposals of the item.
- 3. Given the retention of title, the Supplier will only be able to call for the surrender of the delivered item if the Supplier has rescinded the contract.
- 4. The application for the instigation of insolvency proceedings will allow the Supplier to rescind the contract and to call for the immediate return of the delivered item.
- 5. The Customer will be entitled to resell the delivered item during the course of normal business practice. The Customer herewith now assigns to us all claims to payment to which it is entitled from the resale to a third party to the amount of our invoice value or the value of the delivered item to which we retain title. We herewith accept the assignment. After said assignment, the Customer will be entitled to collect its claims to payment. We will retain the right to collect payment ourselves the moment the Customer fails to comply with its duties to payment or fails to do so properly and defaults in payment.

6. The handling and processing of the delivered item will always be in our name and on our behalf. If the item is processed together with items not belonging to us, we will acquire co-ownership to the new item to the value of the item we delivered in proportion to the newly processed items. The same will apply if the delivered item is compounded with other items not belonging to us.

#### VI. Claims to Defects

In respect of material defects of the delivered item and deficiencies in title, the Supplier will guarantee as follows to the exclusion of any further claims - subject to Section VII:

#### Material Defects:

- 1. The Supplier will choose between providing remedy or a replacement delivery, free of charge, for all parts that prove to be deficient as a result of circumstances prior to the transfer of risk. The Supplier will be informed immediately in written form when such defects are established. Replaced parts will be the property of the Supplier.
- 2. After coordination with the Supplier, the Customer will allow the necessary time and opportunity to carry out the remedies and replacement deliveries that seem necessary to the Supplier; otherwise the Supplier will be released from any liability for the outcome. Only in cases of urgency, where operational safety is endan gered or in order to avert disproportionately serious damages will the Customer be entitled to eliminate the defect itself or have it eliminated by others and to call for the refund of the necessary disbursements from the Supplier.
- 3. Of the costs of the remedy or replacement delivery directly incurred, the Supplier will providing the complaint proves to be justified bear the costs of the replaced piece including despatch. The Supplier will also bear the costs of dismantling and fitting as well as the costs of providing fitters and auxiliary personnel that might be required including their costs of travel, unless this encumbers the Supplier unreasonably.
- 4. Subject to the provisions of the law, the Customer will be entitled to rescind the contract if the Supplier in the light of the exceptions specified by law grants an appropriate period of time to provide remedy or replacement of a material defect that lapses fruitlessly. In the event the defect is insignificant, the Customer will only be entitled to a reduction of the contracted price. The right to a reduction of the contracted price will otherwise be ruled out. Further claims will be subject to Section VII.2 of the present Terms and Conditions of Business.
- 5. Specifically no guarantee will be granted in the following cases: Unsuitable or unprofessional use, faulty assembly and start-up carried out by the Customer or third parties, natural wear-and-tear, faulty or negligent treatment, unprofessional maintenance work, unsuitable operating resources, chemical, electrochemical or electric influences, unless these are attributable to the Supplier.
- 6. If the Customer or a third party provides an unprofessional remedy, the Supplier will bear no liability for the outcome thereof. The same will apply to any amendments carried out on the delivered item without the prior consent of the Supplier.

#### Deficiencies in Title:

- 7. If the use of the delivered item culminates in a breach of industrial proprietary rights or copyrights, the Supplier will, at its own expense, procure the Customer the right to further use of the item or will so modify the delivered item in a reasonable manner for the Customer that the breach of rights no longer prevails. Should this not be possible at financially appropriate terms or within an appropriate period of time, the Customer will be entitled to rescind the contract. Under the specified conditions the Supplier will also be entitled to rescind the contract. Furthermore the Supplier will hold the Customer harmless from undisputed claims or claims that have been established by declaratory judgment asserted by the holder of the proprietary rights in question.
- 8. The duties of the Supplier specified in Section VI. 7 will be conclusive, subject to Section VII.2 for the breach of industrial property rights or copyrights. They will only exist if
  - the Customer informs the Supplier immediately of any asserted breaches of proprietary rights or copyrights,
  - the Customer provides an adequate amount of support to the Supplier in its defence against the claims asserted and/or enables the Supplier to carry out the modification measures defined in Section VI.7,
  - the Supplier retains the right to effect all defence measures including settlements out-of-court,
  - the deficiency in title cannot be attributed to instructions from the Customer and
  - the breach of rights was not attributable to any unauthorized changes made by the Customer to the delivered item or to use of the item in a manner that was not contracted.

#### VII. Liability

- 1. If the delivered item cannot be used as contracted by the Customer owing to the Supplier's failure or errors in carrying out the proposals and advice given before or after finalization of contract or owing to the breach of other contractual ancillary duties in particular the instructions for use and maintenance of the delivered item the rulings of Sections VI and VII.2 will apply correspondingly to the exclusion of any other claims asserted by the Customer.
- 2. The Supplier will only be liable for damages incurred not on the delivered item itself irrespective of the legal grounds in cases of
- a. wilful intent.
- b. gross negligence on the part of the owner/ management bodies or executive employees,
- c. causing injury to life and limb,
- d. maliciously concealed defects or defects guaranteed not to exist,
- e. defects of the delivered item when liability will be subject to the Product Liability Act for injury to persons or damages to privately used items. In the event of
- a. breach of major contractual duties for which the Supplier is responsible, the Supplier will also be liable in cases of gross negligence on the part of non-executive employees and slight negligence, said latter case being restricted to reasonably foreseeable damages typical for the contract. Any other claims will be ruled out.

#### VIII. Limitation Period

All claims of the Customer, on whatever legal grounds, will become statute-barred in 12 (twelve) months. For claims to damages as defined in Section VII.2 a – e, the periods of time stipulated by law will apply. They will also apply to defects in a construction piece or in delivered items that were used in the customary manner for a construction piece and caused the deficiency thereof.

#### IX. Applicable Law, Place of Jurisdiction

- 1. For all legal relations between the Supplier and the Customer, the laws of the Federal Republic of Germany governing legal relations between inland parties will apply exclusively to the exclusion of the laws and rulings applicable only to cross-border deliveries such as the UN Convention on Contracts for the International Sale of Goods or EKG and EAG standardized laws governing the purchase of movables and international contracts).
- 2. Place of jurisdiction will the court of law responsible at the registered seat of the Supplier. The Supplier will, however, be entitled to file action at the registered seat of the Customer.

#### X. Severability

Should individual provisions of the present Terms and Conditions of Business prove to be inoperative or unfeasible in whole or in part or become inoperative or unfeasible owing to amendments in the law following finalization of contract, the remaining terms and conditions and the validity of the contract as a whole will be unaffected hereby. In place of the inoperative or unfeasible provision will be an effective and feasible provision that comes as close as possible to the sense and purpose of the void provision. Should an omission transpire, the provisions will be deemed agreed upon that correspond to the sense and purpose of the contract and would have been agreed upon had they been considered.

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# Protect your air – worldwide



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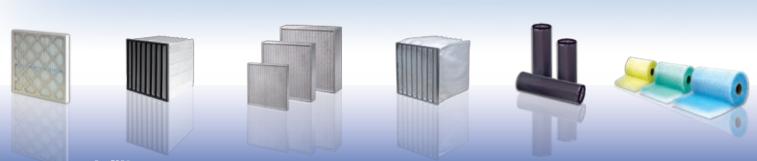
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