



### **Air Filters**

### **For HVAC Systems**



#### EMW<sup>®</sup> air filters for heating, air conditioning and ventilation systems are expertly engineered to provide users long service life with low pressure drop and consistently high filtration efficiency.

#### <u>Long Service Life</u>

The filter medium and frame are harmonized in design for optimum aerodynamic compatibility. Even at high flow rates, they provide low initial pressure drop which remains virtually constant during subsequent service. The medium and its plastic housing are fully incinerable for easy disposal after use.





#### High\_Filtration\_Efficiency

Excellence in filtration

Our filters use time-proven pleating technology to ensure long service life and constant filtration efficiency. Each filter unit contains a medium surface of up to 40 m<sup>2</sup>, providing high arrestance from the first day of operation onwards.

### **Stability**

The filter medium is securely mounted on the frame with a cast airtight joint. Even at high air flow rates, the medium remains in place, ensuring outstanding filtration efficiency.



#### **Secure Airtightness**



Airtightness is further ensured by a continuous outer seal which provides additional protection against lateral leakage.

#### Independent Testing

EMW<sup>®</sup> air filters are tested by third-party institutes to confirm compliance with the ISO 16890, EN 779 and EN 1822 standards.



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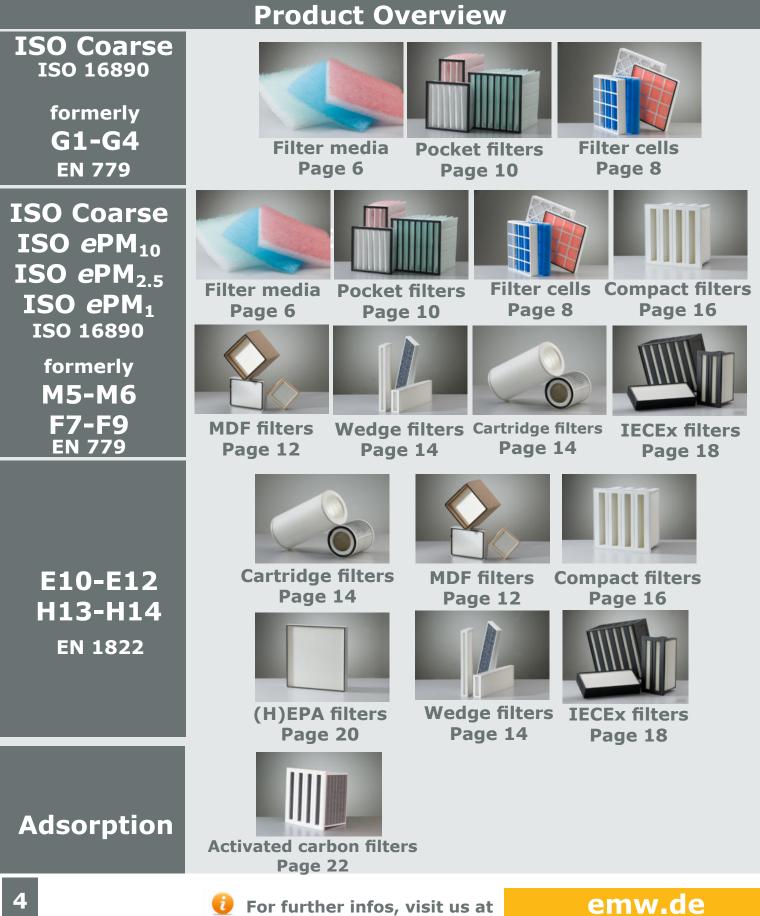
### **FOC** more than 60 years, specialists for air filtration and (waste)water filtration technologies

### Excellence in filtration

**World of Filters** 

### Air filters in all ISO 16890, EN 779 and EN 1822 Filter Classes.

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**EMW®** filters comply with ISO 16890, EN 779 and EN 1822 as confirmed by independent laboratements as confirmed by independent laboratory testing.

# **Filter Classes**

**Filter Media** 

### **VERFILTAN Glass-Fibre Medium**

VERFILTAN is a glass-fibre medium with progressively compressed fibres, i.e. a fibre structure which is increasingly tighter from the inlet side to the outlet side. This permits dust collection throughout the full thickness of the medium. These media are available with binder impregnation for enhanced dust retention.

- Available in ISO 16890 Filter Classes (formerly EN 779, G1-G4)
- Reliable service even at 100% relative humidity
- Maximum service temperature: 180 °C



Roll dimensions (LxW) 61,000 x 2000 mm 91,000 x 1000 mm 91,000 x 1500 mm 91,000 x 2000 mm

Cut+to-size sections and other dimensions available on request

### SYNFASAN - Synthetic Medium

SYNFASAN is a synthetic medium with progressively compressed fibres, i.e. a fibre structure which is increasingly tighter from the inlet side to the outlet side. This allows dust arrestance throughout the full thickness of the medium. These media are available with adhesive impregnation for enhanced dust collection.

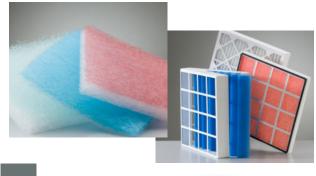
- Available in ISO 16890 Filter Classes (formerly EN 779, G3-M5)
- Reliable service even at 100% relative humidity
- Maximum service temperature: 100 °C





Roll dimensions (LxW) 40,000 x 2000 mm 20,000 x 2000 mm

Cut+to-size sections and other dimensions available on request



VERFILTAN and SYNFASAN are available as cut-to-size sections and in various frame designs.

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Glass-fibre and synthetic media in ISO 16890 Filter Classes (formerly EN 779)

# Filter Media

### Filter Cells



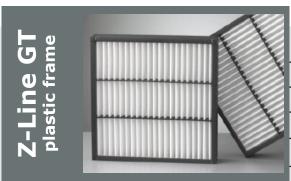
### **Z-Line Filter Cells**

Z-Line filter media are made up of 100% synthetic materials and are available in cardboard, plastic or metal frames.

- Available in ISO 16890 Filter Classes (formerly EN 779, G4-F9)
- Reliable service even at 100% relative humidity
- Supplied in cardboard, plastic or metal frame

0	_	Dimensions (WxHxD)	- #3
m€	594 x 594 x 48 mm        594 x 594 x 96 mm        495 x 594 x 48 mm        495 x 594 x 96 mm	594 x 594 x 48 mm	nsions reques
fra		594 x 594 x 96 mm	
rd		495 x 594 x 48 mm	er dime able on
Z-L cardboa		495 x 594 x 96 mm	
		290 x 594 x 48 mm	0
		290 x 594 x 96 mm	

TOUGHER demands are mastered routinely by EMW<sup>®</sup> Z-Line GT filters. Their filter medium is mounted as solid as a rock in their plastic frame. Even under high aerodynamic stresses, they are not leakage permitting lateral air flow around the filter. Stabilizers provide additional reinforcement of the filter medium. The design configuration prevents distortion while maintaining low pressure drop and virtually constant filtration efficiency.



Dimensions (WxHxD)	S S
592 x 592 x 48 mm	istor (equ
592 x 592 x 96 mm	ong
592 x 592 x 100 mm	able
592 x 592 x 150 mm	OGL avail

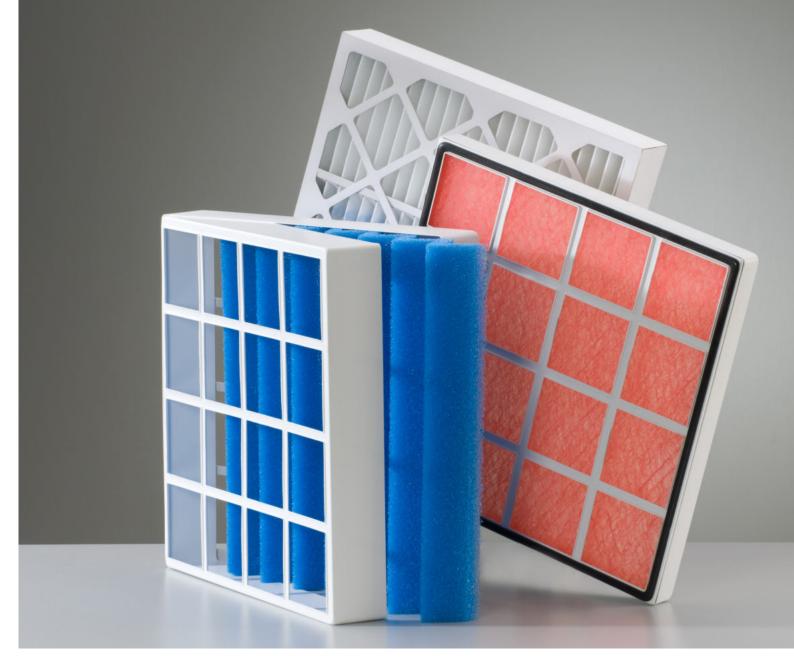
### Filter Media in Reusable Plastic Frames

EMW® reusable plastic frames are ideal for cost-efficient filter changes. The used filter medium is simply taken out and replaced by a new medium without changing the frame. This option is available with our Verfiltan and Synfasan media as well as our Poret<sup>®</sup> open-cell foam filters.

frame	Panal .	Dimensions (WxHxD)
medi plastic		596 x 596 x 25 mm
		596 x 596 x 50 mm
Filter		596 x 596 x 75 mm
		596 x 596 x 100 mm

Other dimensions evailable on request





Filter media mounted in various frames, in ISO 16890 Filter Classes (formerly EN 779).

# Filter Cells

**Pocket Filters** 



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EMW<sup>®</sup> pocket filters are made of synthetic media and are available in all common dimensions and ISO 16890 (formerly EN 779) filter classes. They can be supplied in 25 mmthick plastic frames as well as in 20 mmor 25 mmthick metal frames. A continuous foamed-in-place seal over the edge of the filter assures fully airtight mounting.

We offer pocket filters with 3 to 12 pockets and pocket depths up to 635 mm. Their progressively structured filter media provide high dust arrestance. Versions with self-supporting pockets, stabilizers and partition guards prevent pocket deformation and therefore ensure low pressure drop.



- Available in ISO 16890 Filter Classes (formerly EN 779, G3-F9)
- With 3 12 synthetic medium pockets
- With plastic or metal frame
- Reliable service even at 100% relative humidity

### In ISO 16890 Filter Classes (formerly EN 779, G3-F9)

	592 x 592 x 180 mm	
	592 x 592 x 190 mm	Ē
	592 x 592 x 360 mm	Seuper
	592 x 592 x 500 mm	
	592 x 592 x 600 mm	
	592 x 592 x 635 mm	
L ////		avallable
to the test of	490 x 592 x 360 mm	
Pocket Filter	490 x 592 x 500 mm	
₩ <b>1</b>	490 x 592 x 600 mm	
Note	490 x 592 x 635 mm	
VV · · ·	287 x 592 x 360 mm	dimensions
	287 x 592 x 500 mm	
	287 x 592 x 600 mm	
	287 x 592 x 635 mm	
	500 x 500 x 180 mm	Other
	500 x 500 x 360 mm	$\bigcirc$

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### With <sup>3 - 12</sup> pockets, in ISO 16890 (formerly EN 779) Filter Classes

## **Pocket Filters**

### **MDF Filters**



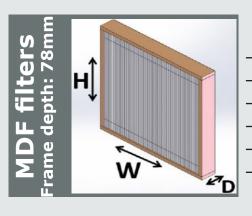


We offer air filters with MDF fibreboard frames in ISO 16890 (formerly EN 779) Filter Classes and EN 1822 Filter Classes E10-H14. The filters are available in all common dimensions.

These filters incorporate a minipleat filter medium which is securely mounted on the MDF frame with a cast airtight joint. Protective grids on the inlet and/or outlet sides and a continuous foamed-in-place seal over the joint are available as options.

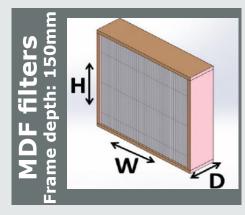
Besides MDF, frames are also available in other materials of construction including plastic and stainless steel.

#### In ISO-*e*PM (formerly M6-F9) & E10-H14 Filter Classes

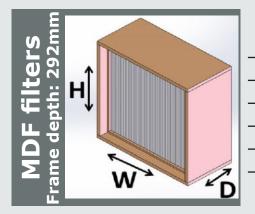


**Dimensions (WxHxD)** 

305 x 305 x 78 mm	6
457 x 457 x 78 mm	
610 x 610 x 78 mm	
762 x 762 x 78 mm	
915 x 915 x 78 mm	È



Dimensions (WxHxD)
305 x 305 x 150 mm
457 x 457 x 150 mm
610 x 610 x 150 mm
762 x 762 x 150 mm
915 x 915 x 150 mm



**Dimensions (WxHxD)** 

	-	-
<b>305 x 305</b>	x 292	mm
457 x 457	x 292	mm
610 x 610	x 292	mm
762 x 762	x 292	mm
915 x 915	x 292	mm

Other dimensions available on request





#### ISO 16890 (formerly EN 779) Filter Classes and EN 1822 Filter Classes E10-H14.

# **MDF Filters**

### Wedge & Cartridge Filters

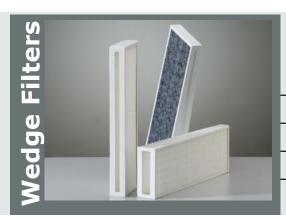


### Wedge Filters - In ISO-ePM, EPA and HEPA Filter Classes



Due to their compact design, wedge filters are ideal for use in ducts with small cross sections. EMW<sup>®</sup> wedge filters are used in clean rooms, ventilation systems for large commercial vehicles and many other applications. These filters are fully incinerable for easy disposal.

- Available in ISO 16890 Filter Classes (formerly EN 779, M6-F9)
  & EN 1822 EPA and HEPA E10-H14 Filter Classes
- Reliable service even at 100% relative humidity
- Maximum service temperature: 80 °C



Dimensions (WxHxD)	n Stons request
86.5 x 202 x 375 mm	
86.5 x 202 x 600 mm	
600 x 65 x 202 mm	

### **Cartridge Filters -** In ISO-*e*PM, EPA and HEPA Filter Classes



EMW<sup>®</sup> cartridge filters are available in ISO 16890 (formerly EN 779) Filter Classes and EN 1822 Filter Classes E10-H14. Their minipleat filter medium is securely mounted on the plastic frame with a cast airtight joint. A continuous foamed-in-place seal over the joint further ensures airtightness. A perforated metal guard is available as an option for additional stability under high aerodynamic stress.

- Available in ISO 16890 Filter Classes (formerly EN 779, M6-F9) & EN 1822 E10-H14 Filter Classes
- Reliable service even at 100% relative humidity
- Maximum service temperature: 80 °C

ers	Dimensions (DxH)	÷
filte	176 x 226 mm	
	176 x 176 mm	
ridge	200 x 200 mm	
	200 x 400 mm	
	<b>220 x 140 mm</b>	
		LU L







ISO 16890 Filter Classes (formerly EN 779, M6-F9) and EN 1822 Filter Classes E10-H14.

# Wedge & Cartridge Filters

### **Compact Filters**

EMW<sup>®</sup> compact filters provide extremely long service life. Their medium structure and inlet flow masks are harmonized in design for optimum aerodynamic compatibility. This ensures low initial pressure drop which remains virtually constant throughout subsequent operation.

EMW® filters compact have high-quality glassfibre media which provide consistently high filtration efficiency over the filter's service life. Available in ISO 16890 (formerly EN 779) and HEPA Fil-Classes, they offer up 40m<sup>2</sup> filter ter to surface area in a space-saving compact configuration.

The filter medium is securely mounted on the plastic frame with a cast airtight joint. A continuous foamedin-place seal over the joint further ensures airtightness.

### In ISO-ePM (formerly M6-F9) and E10-H14 filter classes





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**EMW®** compact filters in ISO 16890 Filter Classes (formerly EN 779) and EN 1822 Filter Classes E10-H14

# **Compact Filters**



EMW<sup>®</sup> offers electrically dissipative air filters for use in potentially explosive environments in accordance with IECEx-Standard 80079-34. Different versions are available including compact filters, filter boxes and panel filters.

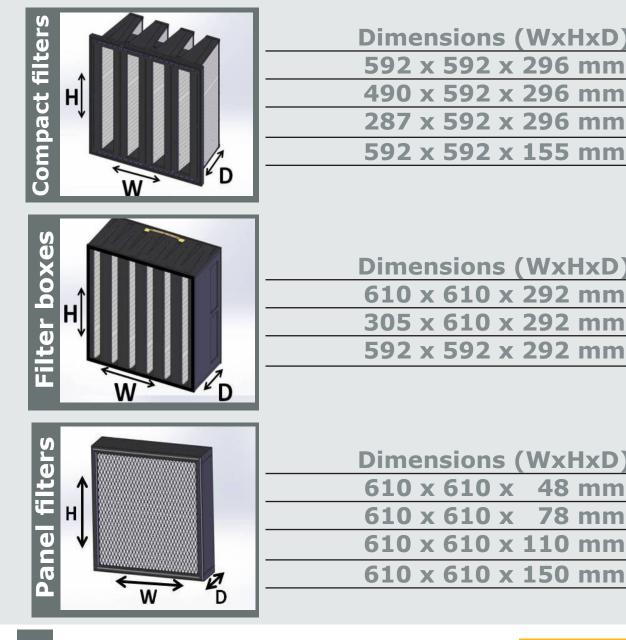


They are mounted in electrically dissipative plastic frames which are much lighter in weight than metals and other conventional materials.

The filter box and panel filter versions are earthed by means of integrated earthing lugs. The compact filter versions incorporate recesses on the inlet and outlet sides of the filter frame which are used to mount the earthing lug (supplied with the filter) on either side as desired.



### In ISO-ePM filter classes (formerly M6-F9) and E10-H14



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**FOR** filtration in potentially explosive environments, EMW<sup>®</sup> offers IECEx-certified air filters.

# **IECEX Filters**

### (H)EPA Filters

Removal of particulates (bacteria, spores, viruses, radioactive fallout, toxic dust, etc.) smaller than 1 micron in size from air can be a **EMW**® particularly demanding task. offers air filter applications 1822 for these in EN Filter Classes range (EPA) and H13-H14 (HEPA). **EMW**<sup>®</sup> filters E10-E12 are used in hospitals, clean rooms and any other applications requiring clean air in conformance with strictest standards.

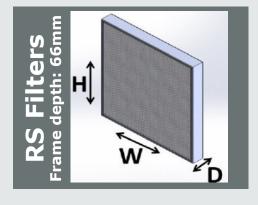
EMW®'s RS filters are available in all common dimensions. Their high-quality glass-fibre medium is securely joined to the filter frame with a cast airtight joint. Various frame versions are offered including anodised aluminium and other materials. Protective grids are available as options which can be installed on either side as required. A continuous foamedin-place seal over the joint further enhances airtightness.

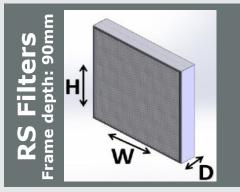


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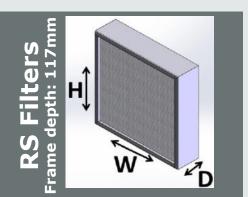


Dimens	sions (WxHxD)
305 x	305 x 90 mm
457 x	457 x 90 mm
610 x	610 x 90 mm
762 x	762 x 90 mm
915 x	915 x 90 mm

Dimensions (WxHxD)

305 x 305 x 66 mm 457 x 457 x 66 mm

610 x 610 x 66 mm 762 x 762 x 66 mm 915 x 915 x 66 mm



Dimensions (WxHxD)
305 x 305 x 117 mm
457 x 457 x 117 mm
610 x 610 x 117 mm
762 x 762 x 117 mm
915 x 915 x 117 mm



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In EN 1822 Filter Classes E10-E12 and H13-H14.

# (H)EPA Filters

### Activated Carbon Filters

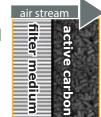


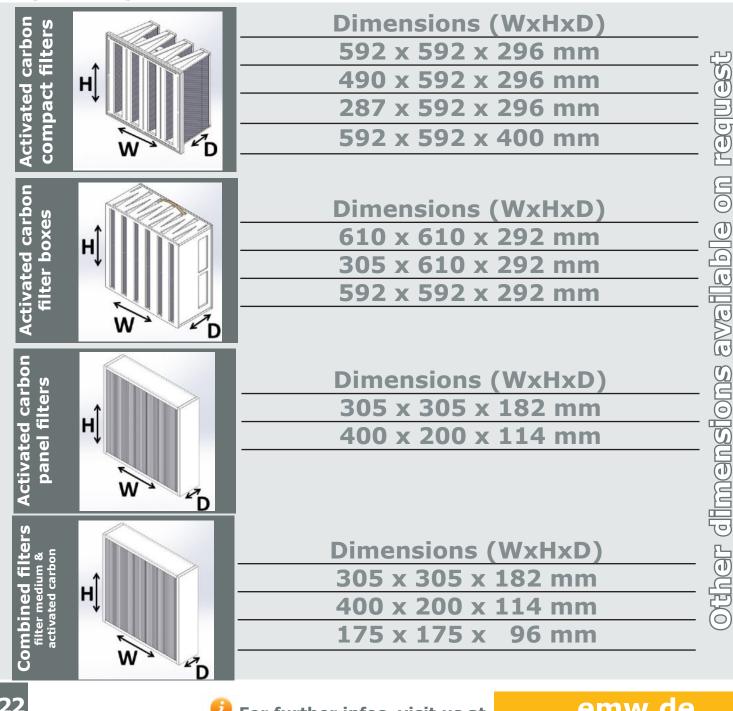
EMW® offers a broad range of activated carbon filters for odour and/ removal from ambient air. For pollutant particularly high contamior nant levels, EMW® offers activated carbon filters enclosed in synthetic me-**EMW**<sup>®</sup> activated carbon filters can be provided in various versions. dia.



Activated carbon filters incorporating Poret®Carbon open-cell filter foam are also available in various versions. Poret®Carbon is an activated-carbon impregnated medium with very high active surface area. air stream

W® also offers combined filters incorporating physical filtration and activated carbon adsorption. The inlet air stream first passes through a filter medium (available in all ISO 16890 and EN 1822 Filter Classes) and then through an activated carbon bed. The result: rapid and thorough cleaning action.







### **2x Filtration** Particle filtration paired with activated carbon adsorption.

### **Activated Carbon Filters**









### MADE IN GERMANY







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