

ATEX Air Filters

For All
Explosion
Hazard Zones



Special Anti-Static Design Combined with High-Performance Filtration

EMW®'s ATEX filters are made with high quality glass fibre media providing outstanding filtration efficiency. The filter material's superb quality and innovative minipleat configuration ensure optimum utilization of filter surface area along with heavy-duty strength. Standard versions with up to 40m² filter area as well as individualized versions with custom dimensions are available in filter classifications ranging from ISO filter classes according ISO 16890 (formerly EN 779) to (H)EPA filter classes according EN 1822.



The frames of EMW® ATEX air filters are made of electrically dissipative plastic, avoiding the excess weight of metal frames. The result: outstanding ease of installation.



ATEX Hazardous Zones

Zones (Dusts / Gases)	Definition
20/0	Explosive atmosphere is present continuously, or for long periods or frequently.
21/1	Explosive atmosphere is likely to occur in normal operation occasionally.
22/2	Explosive atmosphere is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

The ATEX Directive

The name ATEX comes from the French: „ATmosphères EXplosibles“. The applicable regulatory code in Europe is Directive 2014/34/EU (old designation 94/9/EC). This directive specifies that equipment and protective systems operated in potentially explosive atmospheres must be capable of dissipating electrostatic charge. Air filters used in these hazardous areas must also meet this requirement.



EMW® ATEX filter boxes and panel filters are supplied with integrated earthing lugs. EMW® compact filters have pre-formed mounting recesses on the inlet and outlet sides of the filter frame. Their earthing lug, supplied with the filters, can be conveniently mounted on either side as desired.

EMW® offers electrically dissipative ATEX-certified air filters for use in potentially explosive environments.

All ATEX air filters offered by EMW® provide directive-compliant safety over the entire range of ATEX hazardous zones.

Characteristics

- Available in filter classes including ISO 16890 classes (formerly EN 779) and EN 1822 (H)EPA classes
- water-repellent filter media
- Required ATEX documentation supplied with filters
- Lightweight plastic frames made of electrically dissipative plastic
- Earthing cables and fastening hardware provided with each filter
- Wide service temperature range: -40°C to +80°C

Dimensions (W x H x D)

592 x 592 x 48 mm

592 x 287 x 48 mm

287 x 592 x 48 mm



Designed for heavy-duty offshore applications, the new ATEX panel filter provides reliable operation under even the toughest conditions.

Stabilizers integrated in the filter protect and maintain the pleat pattern in the media, ensuring low initial pressure drop with minimal increase in subsequent operation.

The conductive synthetic media is solidly mounted around its entire perimeter in a dissipative plastic frame. A seamless cast-in-place seal holds the air filter firmly in place without leakage.



Panel Filter

Available in ISO Coarse filter class according ISO 16890 (formerly G4 / EN 779).

Dimensions (W x H x D)

610 x 610 x 48 mm

610 x 610 x 78 mm

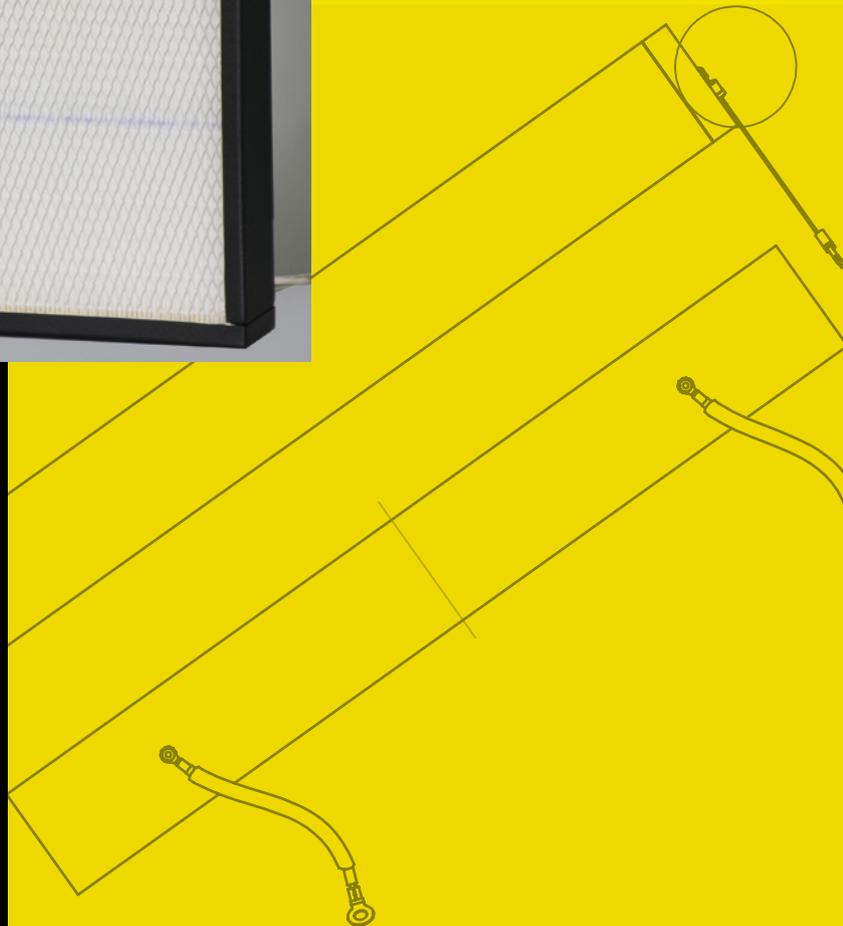
610 x 610 x 110 mm

610 x 610 x 150 mm

Other dimensions available on request



ATEX minipleat panel filters are supplied with integrated earthing lugs. These pleated filter media are offered in plastic frames in all common dimensions. The filter media are high quality, wet-laid glass-fibre materials and sealed in the frame by a cast airtight joint.



Minipleat Panel Filter

Available in ISO-ePM filter classes according ISO 16890 (formerly M6-F9 / EN 779) and E10-H14 according EN 1822.

Dimensions (W x H x D)

592 x 592 x 296 mm

490 x 592 x 296 mm

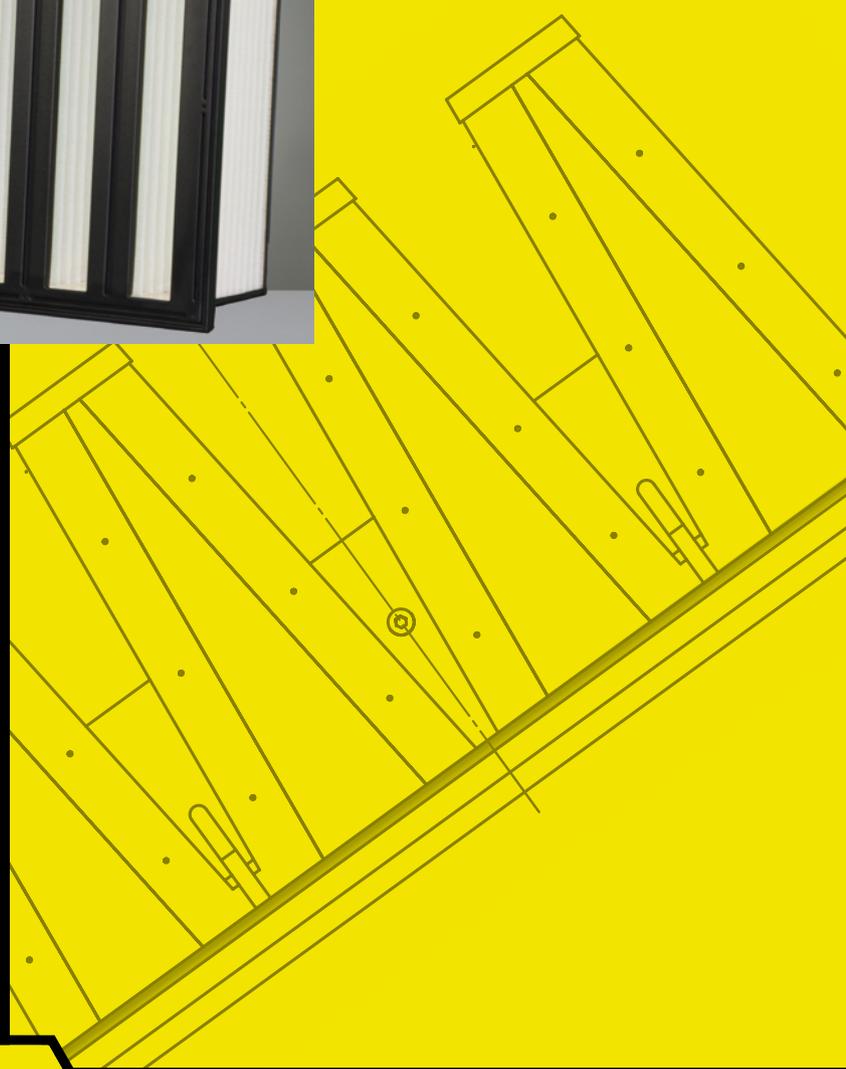
287 x 592 x 296 mm

592 x 592 x 155 mm



Compact filters owe their name to their compact, space-saving construction. They provide maximum media area within minimum volume, offering an optimum combination of high filtration efficiency and low pressure drop.

EMW® compact filters have pre-formed mounting recesses on the inlet and outlet sides of the filter frame. Their earthing lug, supplied with the compact filter, can be conveniently mounted on either side as desired. The frames are made of electrically dissipative plastic.



Compact Filter

Available in ISO-ePM filter classes according ISO 16890 (formerly M6-F9 / EN 779) and E10-H14 according EN 1822.

Dimensions (W x H x D)
610 x 610 x 292 mm
305 x 610 x 292 mm
592 x 592 x 292 mm



EMW® filter boxes provide extremely high filter surface areas ranging up to 40m². The filter media are bonded to the electrically dissipative frame by a cast airtight joint. The reliable full-perimeter bond prevents leakage even at highest flow rates. In addition the ATEX filter boxes are available with a continuous foamed-in-place seal located on the air inlet or outlet side as desired.



Filter Box

Available in ISO-ePM filter classes according ISO 16890 (formerly M6-F9 / EN 779) and E10-H14 according EN 1822.



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Excellence in filtration