



Compact filters are the ultimate solution to protect gas turbines if they are located near rivers or near the sea ; where the relative humidity is high ; if the environment is polluted , misty and rainy .

Such air filters have been developed considering raised demands and intended for use under harsh environmental conditions. Compact filters are made of synthetic filtration material that does not produce electric charge. The filter material PP provides high initial operational efficiency; it has high bursting pressure, extraordinary moisture resistance, low pressure drop and high dust retention capacity. Synthetic filtration material PP is distinct in high initial standard filtration efficiency in comparison with conventional filtration materials having low standard efficiency and high probability of electrostatic charge occurrence. That very prospective material may be compared with fiberglass materials meanwhile its standard filtration efficiency may be even compared with ISO ePM1 75%/

F8 (EU8) class. The filtration areas of compact filters are available from 18m<sup>2</sup> to 24m<sup>2</sup>

### Specifications

## Compact filters

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Dimensions (W x H x D)

592x592x292

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592x592x292

Material

Synthetic compound

Synthetic compound

Synthetic compound

Filtration area

19m

<sup>2</sup>

## Compact filters

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19m 2

19m 2

Electrostatic charge

No

No

No

Filter class (ISO16890 / EN779)

**ISO ePM10 85% / M6**

**ISO ePM2.5 80% / F7**

**ISO ePM1 75% / F8**

Initial drop of pressure @ 3400 m /h

61 Pa

72 Pa

91 Pa

Dust retention capacity

>98%

>99%

>99%

Medium efficiency @ 0.4  $\mu\text{m}$

61%

82%

92%

Dust retention capacity @ 450 Pa

763 g

655 g

605 g

Bursting pressure

>5000 Pa

>5000 Pa

>5000 Pa

Maximum temperature

80°C

80°C

80°C

Frame material

PVC compound

PVC compound

PVC compound