Activated Carbon Cartridges and Equipment

Product Overview

Easy to use
• All cartridges are delivered with bayonet closure. The activated coal cartridge can be changed by using the “push and turn” principle

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

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

Material-characteristics:
• Filtration of gases and steam
• Humidity resistant up to 70% r. h.
• Temperature resistant up to max. 70°C

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

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

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

Contact time* (formula)
Contact time (tk[s])= \( \frac{\text{coal volume} [\text{m}^3]}{\text{air flow rate} [\text{m}^3/\text{h}]} \times 3600 \)
Support: 1 m³ = 1000 l
### Standard versions Activated Carbon Cartridges

<table>
<thead>
<tr>
<th>Outer diameter</th>
<th>Length</th>
<th>Casing</th>
<th>Cartridge type</th>
<th>Filling volume</th>
<th>Filling capacity</th>
<th>Layer thickness</th>
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<tbody>
<tr>
<td>mm</td>
<td>mm</td>
<td></td>
<td></td>
<td>litre</td>
<td>kg</td>
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<td>250</td>
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<td>2.85</td>
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### Standard holding frame for Activated Carbon Cartridges

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<th>Frame width</th>
<th>Frame height</th>
<th>Frame depth</th>
<th>Material</th>
<th>Type</th>
<th>Compatible for cartridge type</th>
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### Layout of an Activated Carbon Cartridge

- Sealing ring
- Fixing bolt for bayonet closure
- 26 mm layer thickness

### Layout of a Holding Frame for Cartridges

Drawing shows a stainless steel frame (V66E) with 16 cartridges

### Installation of Cartridge by “push and turn”

- Fixing bolt
- Bayonet closure
- Cartridge key