SFC - Product introduction

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Short description



 Stationary filter unit for in-duct mounting that mainly filters odours and gases by means of activated carbon filter cylinders.



Applications



Companies with activities in the field of:

- Commercial buildings
- Process industry
- Commercial kitchens (only as final filter)

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Air inlet, exhaust, recirculation

Features / USP



- Disposable filter cylinders
- Filled with high quality activated carbon
- Three volumes: 8, 16, 24 cylinders
- Easy filter mounting with bayonet catch
- Low pressure drop
- Two airflow directions
- Possible to stack units or to create double pass
- Fits seamlessly to SFE / SFM...





Fan / SFC SFE Outlet

Connection / Source / Duct

Inlet

Models



SFC-25: 8 filter cylinders

• SFC-50: 16 filter cylinders

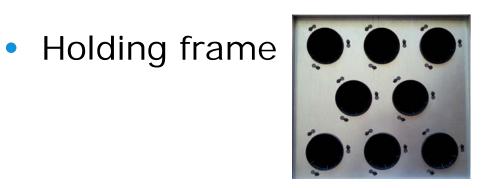
SFC-75: 24 filter cylinders



Standard in SFC



SFC is supplied as standard with:



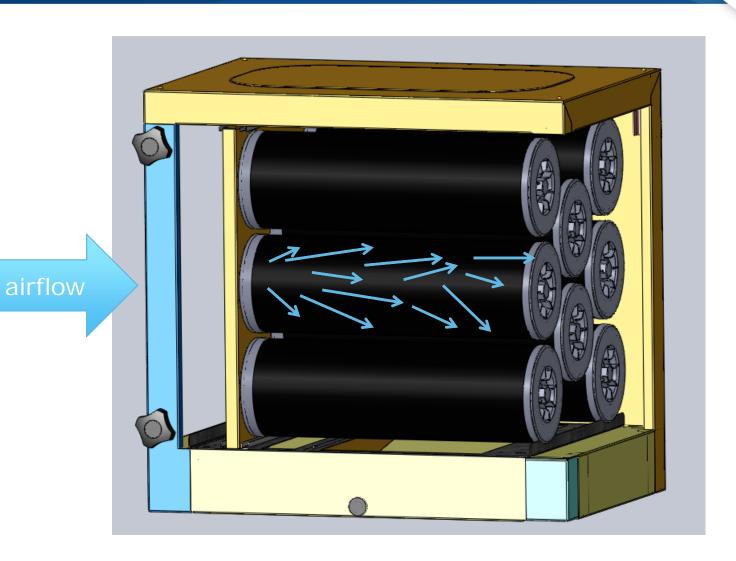
Bayonet catch

Activated carbon cylinders



Views (side)

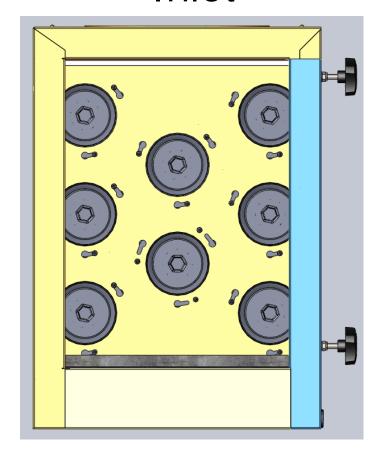




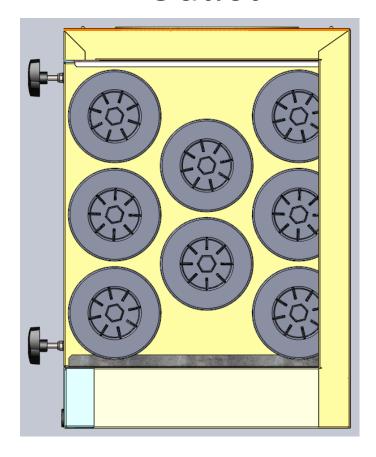
Views (inlet – outlet)



Inlet



Outlet



Optional pre-filters



Coarse dust: **SSF** (G3 filter)



Oil mist (average): **SAF**



Oil mist (much): **SOD**



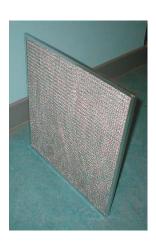
Optional final filters



Dust: **SSF** (G3 filter)



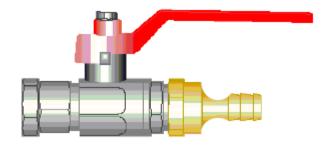
Oil mist: SAF



Other options



Oil drainer



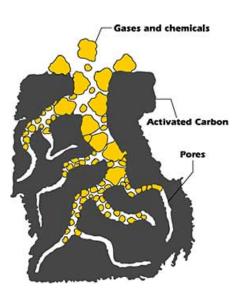
Connection pieces



What is activated carbon?



- Thermal activation of charcoal, or other base material (> 900 °C)
- And addition of dry steam to avoid burning
- Results in a very porous semi-finished product that is to be processed for its final application
- With pore sizes ranging from small meso-pores to very small micro-pores
- These pores adsorp gases:
 - attracts the molecules to its surface (Vanderwaals Forces)
- Large adsorption surface: 500 m2/g



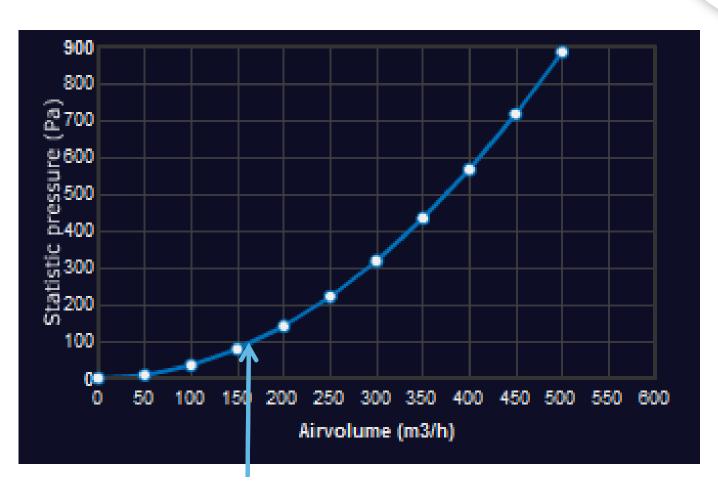
Specifications cylinders



- Finish: plastic
- Diameter: 145 mm
- Height: 453 mm
- Carbon weight: 2,1 kg
- Thickness carbonbed: 26 mm
- Installation / mounting: bayonet catch
- Max operational temperature: 80°C
- Max relative air humidity: 70%
- Recomm. max hydrocarbon output: 156 m³/h
- Contact time at 156 m³/h: 0,1 sec

Pressure drop





Recommended max output per cylinder