



Construction STA

## ACFC

### FOR THE ADSORPTION OF GASEOUS ODOROUS SUBSTANCES AND CONTAMINANTS

To improve the indoor air quality in offices, hotels, and airports

- Available with different carbon types for various areas of application and operating conditions
- Cylinder made of perforated sheet steel, stainless steel, or plastic, available in different lengths
- Plastic cylinders are completely corrosion-resistant; cartridges are completely incinerable and hence easily disposed of
- Easy fitting and secure sealing due to 3-point bayonet fixing
- Fitting into mounting plates (type MP) for filter walls
- Fitting into universal casings (type UCA) for duct installation

## General information

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### Application

- Filter cartridge for the adsorption of gaseous odorous substances and contaminants as well as hydrocarbons or traces of inorganic compounds from the supply and recirculated air

### Special features

- Cylinder with profiled base and cover plates
- Upon request, filter cartridges can be provided with impregnated carbon types for special applications and operating conditions, e.g. for the adsorption of sulphur and chlorine compounds

### Nominal sizes

- D × H [mm]

### Construction

- PLA: Casing made of plastic
- GAL: Casing made of galvanised steel
- STA: Casing made of stainless steel

### Useful additions

- Mounting plates (MP)
- Universal casing (UCA)

### Construction features

- 3-point bayonet fixing
- Flat seal as standard

### Materials and surfaces

- Activated carbon sticks
- Casing made of plastic, galvanised sheet steel, or stainless steel

## TECHNICAL INFORMATION

Parameter	Value	Method
<b>CTC (carbon tetrachloride adsorption) [%]</b>	> 60	ASTM D3467
<b>Toluene adsorption [%]</b>	> 14	-
<b>Water content [%]</b>	< 3	ASTM D2867
<b>Ash content [%]</b>	~ 8	ASTM D2866
<b>Compacted dry density [g/l]</b>	480 - 500	ASTM D2854
<b>BET surface [m<sup>2</sup>/g]</b>	> 1100	BET-N <sub>2</sub>
<b>Hardness [%]</b>	> 99	ASTM D3802
<b>Iodine number [mg/g]</b>	> 99	ASTM D4607
<b>Ignition point [°C]</b>	> 375	ASTM D3466
<b>Pellet diameter [mm]</b>	3	-
<b>Max. operating temperature [°C]</b>	50	-
<b>Maximum relative humidity [%]</b>	70	-

#### Specification text

Activated carbon filter cartridges for the adsorption of gaseous odorous substances and contaminants as well as hydrocarbons or traces of inorganic compounds from the supply and recirculated air. Easy fitting and secure sealing due to 3-point bayonet fixing. Activated carbon filter cartridges available in lengths of 250, 450 and 600 mm. Flat seal as standard.

#### Special features

- Cylinder with profiled base and cover plates
- Upon request, filter cartridges can be provided with impregnated carbon types for special applications and operating conditions, e.g. for the adsorption of sulphur and chlorine compounds

#### Materials and surfaces

- Activated carbon sticks
- Casing made of plastic, galvanised sheet steel, or stainless steel

#### Construction

- PLA: Casing made of plastic
- GAL: Casing made of galvanised steel
- STA: Casing made of stainless steel

#### Sizing data

- Noxious gas
- Volume flow rate [m<sup>3</sup>/h]
- Contact time [s]
- Differential pressure [Pa]
- Nominal size [mm]

ACFC  
|  
1

-

PLA  
|  
2

/

145 × 450  
|  
3

1 Type  
ACFC Activated carbon filter cartridge

2 Construction  
PLA Casing made of plastic  
GAL Casing made of galvanised steel  
STA Stainless steel casing

3 Nominal size [mm]  
D × H

## Dimensions



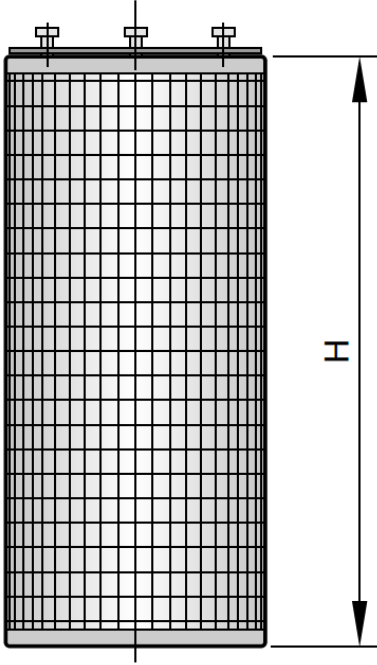
①		②		③	④	⑤	⑥	⑦
D [mm]	H [mm]	qv [l/s]	qv [m³/h]	Pa	s	l	mm	kg
145	250	24	85	80	0.1	2.4	26	1.5
145	450	42	150	80	0.1	4.3	26	2.6
145	600	56	200	120	0.1	5.7	26	3.4

① Nominal size ② Nominal volume flow rate ③ Differential pressure ④ Contact time ⑤ Activated carbon volume ⑥ Layer thickness ⑦ ~ Weight

①		②		③	④	⑤	⑥	⑦
D [mm]	H [mm]	qv [l/s]	qv [m³/h]	Pa	s	l	mm	kg
145	250	24	85	70	0.1	2.4	26	2
145	450	42	150	70	0.1	4.3	26	3.7
145	600	56	200	95	0.1	5.7	26	5

① Nominal size ② Nominal volume flow rate ③ Differential pressure ④ Contact time ⑤ Activated carbon volume ⑥ Layer thickness ⑦ ~ Weight

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