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## Activated carbon filters - AK

**technically oil-free air**

**Field of application:** This filter removes all gaseous hydrocarbons, oil vapours or odour substances. The 2-step adsorption effect has a large adsorption surface resulting in a longer service life and high economic efficiency in usage. The stainless steel support cladding and filter material hold the activated carbon firmly in its seat and ensure that there is no activated carbon particle present in the filtrate.

**!** Important: To increase the service life of the filter, an SMF filter should be installed upstream.

**Applications:** Activated carbon filters are applied to instrument and control air in the chemical, petro-chemical and pharmaceutical industry, as well as in the food, beverage and process industries, as well as in bottling plants, for packaging machines and generating breathing air and pre-filtration of sterile filters. We recommend the upstream connection of a prefilter and microfilter to increase the service life.

**Materials:** Housing: Aluminium with blue polyester resin coating, filter medium: Fine milled activated carbon, embedded in microfibre fleece free of binding agents, O-rings: NBR (silicone and free of releasing agent), support casing: Stainless steel

**Temperature range:** +10°C to +40°C max. (temporary +60°C max.). **Input pressure:** 1 - 16 bar

**Residual oil content:** (with inlet concentration of 0.1 mg/m<sup>3</sup> - SMF pre-filter installed): < 0.003 mg/m<sup>3</sup>

**Supply volume:** Filter housing, filter element

Type	Connection	Max. flow*	Replace. elements	Wall bracket
AK 0002	G 1/4" (FT)	40 m <sup>3</sup> /h	AK 02/05	WH 2
AK 0004	G 3/8" (FT)	60 m <sup>3</sup> /h	AK 03/05	WH 2
AK 0006	G 3/8" (FT)	90 m <sup>3</sup> /h	AK 03/10	WH 2
AK 0009	G 1/2" (FT)	120 m <sup>3</sup> /h	AK 04/10	WH 2
AK 0012	G 1/2" (FT)	180 m <sup>3</sup> /h	AK 04/20	WH 12
AK 0018	G 3/4" (FT)	270 m <sup>3</sup> /h	AK 05/20	WH 12
AK 0027	G 1" (FT)	360 m <sup>3</sup> /h	AK 05/25	WH 12
AK 0036	G 1 1/4" (FT)	480 m <sup>3</sup> /h	AK 07/25	WH 12
AK 0048	G 1 1/2" (FT)	720 m <sup>3</sup> /h	AK 07/30	WH 48
AK 0072	G 2" (FT)	1080 m <sup>3</sup> /h	AK 10/30	WH 48
AK 0108	G 2" (FT)	1440 m <sup>3</sup> /h	AK 15/30	WH 48
AK 0144	G 2 1/2" (FT)	1920 m <sup>3</sup> /h	AK 20/30	WH 144
AK 0192	G 3" (FT)	2880 m <sup>3</sup> /h	AK 30/30	WH 144
AK 0288	G 3" (FT)	4320 m <sup>3</sup> /h	AK 30/50	---

\* for +20°C and 7 bar overpressure, for other pressures refer to conversion table on page 363



## Exhaust silencers with microfilters

**technically oil-free exhaust**

No oil in the exhaust air technically oil-free

**Noise reducing:** Up to 69 dB (A)

**Temperature range:** -20°C to max. +100°C

**Operating pressure:** Max. 6 bar

Type	Ø D	H	Thread	Flow	Replacement elements
SDF 12	90	181	G 1/2"	75 m <sup>3</sup> /h	SDFE 12/34
SDF 34	90	181	G 3/4"	100 m <sup>3</sup> /h	SDFE 12/34
SDF 10	110	254	G 1"	175 m <sup>3</sup> /h	SDFE 10