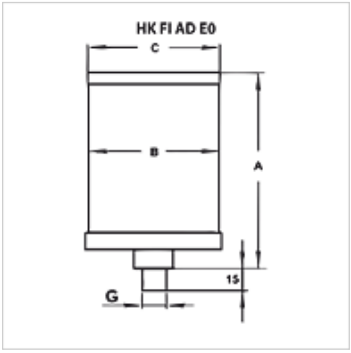
HK FI AD E0/EV

Adsorber filter single use without valve

Properties

Design	Disposable with activated charcoal filter Integrated filter element 3 µm
Connection	at bottom
Installation position	vertical
Temp. range	-40 °C to +70 °C
Material	Housing: Aluminium and acrylic Gasket: NBR





Note

Design bases are medium, air flow rate or clunk pick-up volume.
To replace the adsorber cartridge, the connector remains on the machine.
Other variants with housing in aluminum or stainless steel as well as for aggressive media are available on request.

Description

These adsorber filters are used for the ventilation of hygroscopic substances of any kind.

Ordering information

For tank mounting the mounting flange HK FI AD FS must be ordered if necessary.

Additional information

In the adsorber the water molecules contained in the air are bounded in the pores of the adsorbent (silica gel). The saturation (charging) and then the necessary replacement of the filter cartridge is indicated by a color change from orange to green.
The valve system prevents unnecessary water absorption from the ambient air during the standstill times. This allows longer service lives of the adsorbent filling.
Silica gel consists of about 99 % of silicon dioxide (SiO2) and is classified as a synthetic polar and hydrophilic desiccant. It possesses due to its high porosity, a large internal surface area of up to 800 m2/g.This enables a very high water holding capacity.
In adsorber filters silica gel is often added with a color indicator. Color changes indicate the water content and therefore the progress of the loading of the desiccant.
According to EU legislation (Regulation EC No 1272/2008) silica gel is not classified as a dangerous substance. It is not subject to classification according to EC Directives (67/548/EEC and 1999/45/EC). Silica gel is not among the health and environmentally hazardous substances.

Item

Identification	Design	Air volume (L/min)	(L)	for tank size	(kg)	A (mm)	B (mm)	C (mm)	G	Weight (kg)
HK FI AD 005 E0 N AF	without valve	5	0,12	≤ 100 litres	0,3	164,0	90,0	96,0	G 3/4”	0,8
HK FI AD 010 E0 N AF	without valve	10	0,20	≤ 100 litres	0,5	222,0	90,0	96,0	G 3/4”	1,2
HK FI AD 020 E0 N AF	without valve	20	0,36	100 - 600 litres	0,9	238,0	110,0	116,0	G 3/4”	1,6
HK FI AD 040 E0 N AF	without valve	40	0,56	100 - 600 litres	1,4	338,0	110,0	116,0	G 3/4”	2,3
HK FI AD 100 E0 N AF	without valve	100	0,76	600 - 1800 litres	1,9	253,0	150,0	156,0	G 1"	3,2
HK FI AD 180 E0 N AF	without valve	180	1,24	600 - 1800 litres	3,1	353,0	150,0	156,0	G 1"	4,8
HK FI AD 005 EV N AF	with valve	5	0,12	≤ 100 litres	0,3	164,0	90,0	96,0	G 3/4”	0,8
HK FI AD 010 EV N AF	with valve	10	0,20	≤ 100 litres	0,5	222,0	90,0	96,0	G 3/4”	1,2
HK FI AD 020 EV N AF	with valve	20	0,36	100 - 600 litres	0,8	238,0	110,0	116,0	G 3/4”	1,6
HK FI AD 040 EV N AF	with valve	40	0,56	100 - 600 litres	1,3	338,0	110,0	116,0	G 3/4”	2,3
HK FI AD 100 EV N AF	with valve	100	0,76	600 - 1800 litres	2,0	253,0	150,0	156,0	G 1"	3,2
HK FI AD 180 EV N AF	with valve	180	1,24	600 - 1800 litres	3,1	353,0	150,0	156,0	G 1"	4,8

Air volume: Recommended air throughput for optimum drying efficiency

Accessories

HK FI AD FS	Mounting flange for adsorber
HK FI AD FS BY	Mounting flange for adsorber
HK FI AD FS FILL	Mounting flange for adsorber

Spare parts

HK FI AD ET	Filter element for single use adsorber

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