

# Dimensions

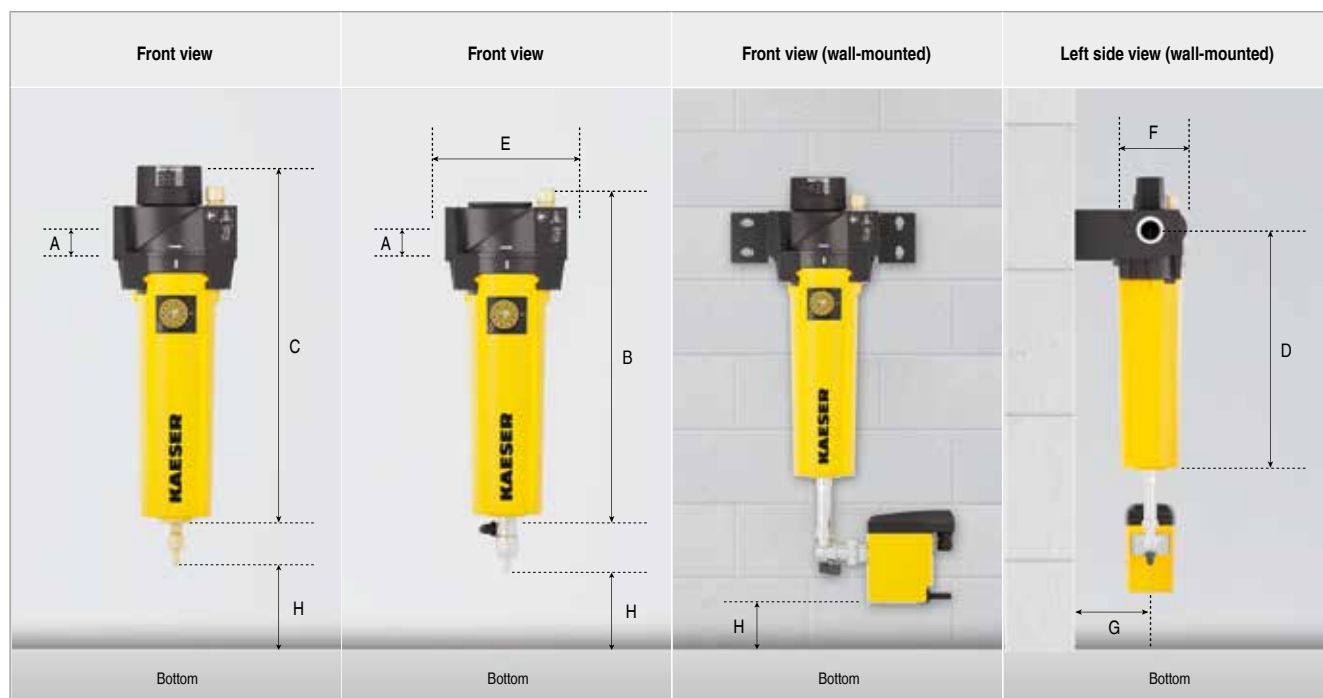
Model F6 to F320

Model	A	B	C	D	E	F	G	H
	G	mm	mm	mm	mm	mm	mm	mm
F6	¾ (½, ¾)	274	296	231	121	91	90	≥ 40
F9								
F16	1 (¾)	305	327	259	132	102	100	≥ 40
F22		355	377	309				
F26		355	377	309				
F46	2 (1½, 1¼)	375	398	312	198	153	130	≥ 50
F83		460	483	397				
F110		660	683	597				
F142		660	683	597				
F184	3 (2, 2½)	715	738	643	242	196	150	≥ 50
F250		843	866	771				
F320		985	1008	913				

G compressed air connections as per ISO 228, optional NPT connections as per ANSI B 1.20.1.

# Views

Models shown: F16/F22/F26



# Technical specifications

For models F6 to F320 and filter grades KB/KE/KA/KD

Model	Flow rate <sup>1)</sup> m <sup>3</sup> /min	Gauge pressure bar	Ambient temperature °C	Compressed air inlet temperature °C	Maximum weight kg	Electrical supply ECO-DRAIN
F6	0.60	2 to 16	+3 to +50	+3 to +66	3.6	95...240 VAC ±10% (50...60 Hz) / 100...125 VDC ±10%
F9	0.90				3.7	
F16	1.60	2 to 16	+3 to +50	+3 to +66	4.2	
F22	2.20				4.4	
F26	2.60				4.5	
F46	4.61	2 to 16	+3 to +50	+3 to +66	8.4	
F83	8.25				9.3	
F110	11.00				10.9	
F142	14.20				11.1	
F184	18.40	2 to 16	+3 to +50	+3 to +66	16.9	
F250	25.00				18.6	
F320	32.00				20.6	

<sup>1)</sup> Performance data at 7 bar gauge pressure relative to 1 bar ambient pressure (absolute) and +20 °C. The flow rate will change for deviating operating conditions.

## Degrees of filtration

Degree of filtration	KB Coalescence filter Basic	KE Coalescence filter Extra	KD Particulate filter Dust	KA Activated carbon filter Adsorption	KBE Extra Combination	KEA Carbon Combination
Initial differential pressure at saturation	< 140 mbar	< 200 mbar	< 30 mbar (New, dry)	< 40 mbar (New, dry)	< 200 mbar	< 240 mbar
Aerosol content at inlet	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	–	–	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Residual aerosol content at outlet as per ISO 12500-1 <sup>1)</sup>	< 0.1 mg/m <sup>3</sup>	< 0.01 mg/m <sup>3</sup>	–	–	< 0.01 mg/m <sup>3</sup>	0.003 mg/m <sup>3</sup> (Total oil content)
Filter medium	Deep-pleated with support structure and polyester drainage matting		Deep-pleated with support structure	High-efficiency carbon matting	–	–
Application	Filtration of solid and liquid aerosols and solid particles	Same application as KB, but for higher compressed air quality Alternatively: Microparticle filter to KD degree of filtration	Exclusively for filtration of solid particles	Exclusively for removal of oil vapours	Combination of KB and KE; application as KE, but for higher compressed air quality	Combination of KE and KA, filtration of aerosols, solid particles and oil vapours

<sup>1)</sup> as per ISO 12500-1:06-2007

## Calculating flow rate

Correction factors for deviating operating conditions (flow rates in m<sup>3</sup>/min x k...)

Deviating gauge working pressure p at filter inlet

p bar <sub>(g)</sub>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
k <sub>p</sub>	0.38	0.50	0.63	0.75	0.88	1.00	1.06	1.12	1.17	1.22	1.27	1.32	1.37	1.41	1.46

<b>Example:</b>	<b>Selected compressed air filter: F 83 with 8.25 m<sup>3</sup>/min (V<sub>Reference</sub>)</b>
Gauge pressure: 10 bar(g) (See table)	Max. possible flow rate under operating conditions
k <sub>p</sub> = 1.17	V <sub>max</sub> Operation = V <sub>Reference</sub> x k <sub>p</sub>
	V <sub>max</sub> Operation = 8.25 m <sup>3</sup> /min x 1.17 = 9.65 m <sup>3</sup> /min