

# HP compressed air filter

## F 6 to F 5210

Flow capacity 0.60–520.8 m<sup>3</sup>/min, 21–18,392 cfm  
 Max. operating pressure: 16 bar, 235 psig



### VALIDATED COMPRESSED AIR QUALITY

The new BOGE HP filters are designed to reliably separate solids, oil & water aerosols as well as oil vapours. To this purpose, the compressed air quality has been validated by independent experts and is confirmed to conform to ISO 12500–1:2007 and ISO 8573–1:2010 standards.

### LOW DIFFERENTIAL PRESSURES

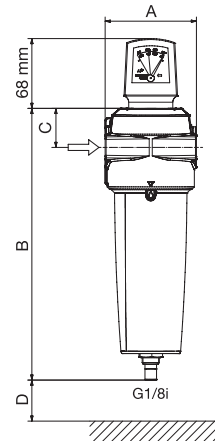
The optimised flow design and the use of HP filter materials serve to keep the differential pressure at a constant low level during the entire service life of the element without compromising its dirt holding capacity.

### HIGHLY EFFICIENT OPERATION

The significantly lower pressure losses of this filter series help to reduce your energy consumption and to improve the CO<sub>2</sub> balance for your company. Never before has compressed air filtering been so efficient!

### RELIABLE SYSTEM

Long term studies show that, if the specified maintenance recommendations are adhered to, the differential pressure of the filters can be kept at a constant low level with consistently high separation efficiency.



### High performance filter elements:

The use of highly efficient element membranes made of nano-fibres with optimised exterior shell stand for extreme filter efficiency. You can choose between the coalescence fine element P (1 µm) and the coalescence fine element M (0.01 µm) for droplet and aerosol separation as well as the absorptive element A for a highly efficient surface binding of oil vapours and odours.



### High-tech design:

The compressed air intake side is clearly visible due to its rim at the filter head – to ensure foolproof connection between the upper and lower filter housing sections during assembly. The conical housing inlet provides a smooth and turbulence free airflow transition when entering the filter element.

**The new HP generation compressed air filters:** With its flow optimised design and performance optimised filter materials the latest BOGE HP filter series are setting new standards. Compressed air purification at its best at the lowest possible differential pressures: the formula for success – guaranteed high quality compressed air at low operating costs is synonymous with user profit. Never before have compressed air filters been so efficient!

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Filtration rate	F P	F M	F A
Separation	Aerosols (oil, water)	Aerosols (oil, water)	Vapours
Suitability according to ISO 8573–1:2010	[2:–:2]	[1:–:1]	[1:–:1]
Particle size	≥ 1 µm	≥ 0.01 µm	n/a
Residual oil contents	0.6 mg/m <sup>3</sup>	0.01 mg/m <sup>3</sup>	0.003 mg/m <sup>3</sup>
Filter efficiency	99.925 %	99.9999 %	n/a
Differential pressure, dry	< 70 mbar	< 140 mbar	< 70 mbar
Differential pressure, wet	< 140 mbar	< 200 mbar	not specified

BOGE Type <sup>1)</sup>	Performance <sup>2)</sup>		Connec-tion	Dimensions in mm				Weight kg	Max. pressure bar
	m <sup>3</sup> /h	cfm		A	B	C	D		
F 6 P / F 6 M / F 6 A	36	21	G 1/4	67	208	23	40	0.55	16.00
F 9 P / F 9 M / F 9 A	55	32	G 3/8	89	270	38	50	1.30	16.00
F 12 P / F 12 M / F 12 A	72	42	G 1/2	89	270	38	50	1.30	16.00
F 18 P / F 18 M / F 18 A	108	64	G 3/4	89	270	38	50	1.30	16.00
F 36 P / F 36 M / F 36 A	216	127	G 1	130	309	46	70	3.00	16.00
F 65 P / F 65 M / F 65 A	396	233	G 1 1/2	130	399	46	70	3.20	16.00
F 95 P / F 95 M / F 95 A	576	339	G 1 1/2	164	471	57	100	6.90	16.00
F 130 P / F 130 M / F 130 A	792	466	G 2	164	563	57	100	7.30	16.00
F 190 P / F 190 M / F 190 A	1188	699	G 2 1/2	164	563	57	100	7.10	16.00
F 260 P / F 260 M / F 260 A	1548	911	G 2 1/2	192	685	72	120	10.30	16.00
F 380 P / F 380 M / F 380 A	2232	1314	G 3	192	875	72	120	15.30	16.00

**Steel casing with flange connection according to EN 1092-1**

BOGE Type <sup>1)</sup>	Performance <sup>2)</sup>		Connection	Dimensions in mm				Weight kg	Filter element Quantity
	m <sup>3</sup> /h	cfm		A	B	C	D		
F 375 FP / F 375 FM / F 375 FA	2232	1313	DN 80	440	1222	221	523	72	1
F 745 FP / F 745 FM / F 745 FA	4464	2627	DN 100	500	1235	258	523	99	2
F 1115 FP / F 1115 FM / F 1115 FA	6696	3941	DN 150	600	1429	308	523	150	3
F 1490 FP / F 1490 FM / F 1490 FA	8928	5255	DN 150	650	1505	346	523	189	4
F 2230 FP / F 2230 FM / F 2230 FA	13392	7882	DN 200	750	1572	386	523	242	6
F 3720 FP / F 3720 FM / F 3720 FA	22320	13137	DN 250	1000	1733	482	523	472	10
F 5210 FP / F 5210 FM / F 5210 FA	31248	18392	DN 300	1050	1836	513	523	583	14

 Max. operating pressure 16 bar, <sup>1)</sup> including automatic condensate drain, differential pressure gauge as of F 9, <sup>2)</sup> based on +20 °C and 1 bar absolute at 7 bar overpressure.

**Conversion factor f for other operating pressures**

bar overpressure	1	2	3	4	5	6	7	8	9	10	11	12	13
f =	0.25	0.38	0.50	0.65	0.78	0.88	1.00	1.13	1.25	1.38	1.50	1.63	1.75