

## BOGE compressed air filters

Efficient peak performance

The premiere class of BOGE high-performance compressed air filters, with modified material composition and significantly improved surface texture, ensures the industry's lowest possible differential pressure during the entire service life of the filter element. Independent experts certify them - validated on the basis of ISO 12500-1: 2007 and ISO 8573-1: 2010 - a reliable separation of solids, oil and water aerosols as well as oil vapors. Never before compressed air filters have been so efficient, and the CO<sub>2</sub> balance is also impressive.



**MAXIMUM  
ENERGY  
SAVINGS**



### Multiple guarantees

The coalescing filters have a highly efficient microfibre element fleece with an optimised external coating. BOGE provides a 12-month performance warranty which guarantees practically constant low differential pressure at consistently high separation performance over the entire lifetime of the filter element – while still offering cost savings. On top of that, BOGE offers a 10-year warranty on the filter housing.



### Certified for foodstuffs

According to the Food Contact Materials Regulation (EC) 1935/2004, all the filters in our high-performance series have an exemption certificate from applicable EU regulations. They are, however, all certified for use in sensitive applications according to FDA Title 21 CFR, meaning they are suitable for use in the Food, Beverage and Pharmaceutical industries.



### Cleverly combined

Up to three filters can be combined without any cross-section constriction, using either a wall mounting or coupling kit - saving space as never before. Fitting a cyclone separator is just as easy. As all replacement parts are designed to be backward-compatible, they can be used both in current models and in previous models as a technical upgrade. It's all about efficiency.



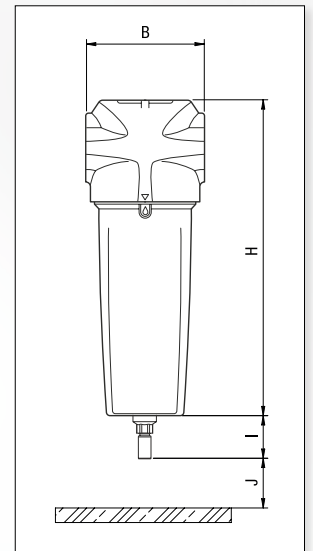
# BOGE compressed air filters

## Efficient peak performance

| Filtration rate                           | Pre-filter [F.P]              | Micro-filter [F.M]            | Activated charcoal filter [F.A] |
|---|-------------------------------|-------------------------------|---------------------------------|
| Separation                                | solids, aerosols (oil, water) | solids, aerosols (oil, water) | oil vapors                      |
| Suitability according to ISO 8573 -1:2010 |                               |                               |                                 |
| Particle size                             | < 1 µm                        | < 0,01 µm                     | n/a                             |
| Residual oil contents                     | 0,5 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                     | < 70 mbar                     | < 70 mbar                       |
| Differential pressure, wet                | < 125 mbar                    | < 125 mbar                    | n/a                             |
| Element change                            | 12 months                     | 12 months                     | 50–650 operating hours          |

### Aluminium housing with thread connection according to ISO 228-1:2000

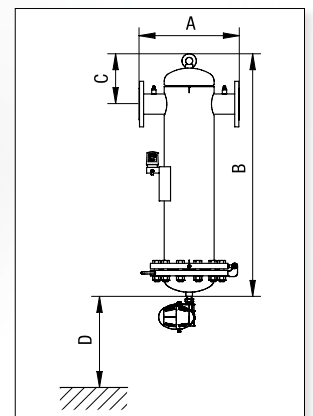
| BOGE Type <sup>1)</sup>           | Flow rate <sup>2)</sup> |                   | Connec-tion | Weight kg | Dimensions in mm |         |         |    |    |
|-----------------------------------|-------------------------|-------------------|-------------|-----------|------------------|---------|---------|----|----|
|                                   | m <sup>3</sup> /min     | m <sup>3</sup> /h |             |           | Height H         | Width B | Depth T | I  | J  |
| F 6-2 P / F 6-2 M / F 6-2 A       | 0,6                     | 36                | ¼"          | 0,6       | 180              | 76      | 65      | 30 | 20 |
| F 9-2 P / F 9-2 M / F 9-2 A       | 0,6                     | 36                | ½"          | 0,6       | 180              | 76      | 65      | 30 | 20 |
| F 12-2 P / F 12-2 M / F 12-2 A    | 1,2                     | 72                | ½"          | 1,2       | 238              | 89      | 84      | 30 | 20 |
| F 18-2 P / F 18-2 M / F 18-2 A    | 1,8                     | 108               | ¾"          | 1,2       | 238              | 89      | 84      | 30 | 20 |
| F 36-2 P / F 36-2 M / F 36-2 A    | 3,6                     | 216               | 1"          | 2,2       | 277              | 120     | 115     | 30 | 40 |
| F 65-2 P / F 65-2 M / F 65-2 A    | 6,6                     | 396               | 1 ½"        | 2,7       | 367              | 120     | 115     | 30 | 40 |
| F 95-2 P / F 95-2 M / F 95-2 A    | 9,6                     | 576               | 1 ½"        | 7         | 440              | 164     | 157     | 30 | 70 |
| F 130-2 P / F 130-2 M / F 130-2 A | 13,2                    | 792               | 2"          | 7,4       | 532              | 164     | 157     | 30 | 70 |
| F 190-2 P / F 190-2 M / F 190-2 A | 19,8                    | 1188              | 2 ½"        | 7,2       | 532              | 164     | 157     | 30 | 70 |
| F 260-2 P / F 260-2 M / F 260-2 A | 25,8                    | 1548              | 2 ½"        | 10,4      | 654              | 192     | 183     | 32 | 88 |
| F 380-2 P / F 380-2 M / F 380-2 A | 37,2                    | 2232              | 3"          | 15,4      | 844              | 192     | 183     | 32 | 88 |



<sup>1)</sup> The automatic condensate drain is included in the scope of delivery. <sup>2)</sup> At +20°C and f bar absolute at 7 bar excess pressure.

### Steel casing with flange connections according to EN 1092-1

| BOGE Type <sup>1)</sup>           | Flow rate <sup>2)</sup> |       | Connec-tion | Filter element Number | Weight kg | Dimensions in mm |      |     |     |
|-----------------------------------|-------------------------|-------|-------------|-----------------------|-----------|------------------|------|-----|-----|
|                                   | m <sup>3</sup> /h       | cfm   |             |                       |           | A                | B    | C   | D   |
| F 375 FP / F 375 FM / F 375 FA    | 2232                    | 1313  | DN 80       | 1                     | 72        | 440              | 1222 | 221 | 523 |
| F 745 FP / F 745 FM / F 745 FA    | 4464                    | 2627  | DN 100      | 2                     | 99        | 500              | 1235 | 258 | 523 |
| F 1115 FP / F 1115 FM / F 1115 FA | 6696                    | 3941  | DN 150      | 3                     | 150       | 600              | 1429 | 308 | 523 |
| F 1490 FP / F 1490 FM / F 1490 FA | 8928                    | 5255  | DN 150      | 4                     | 189       | 650              | 1505 | 346 | 523 |
| F 2230 FP / F 2230 FM / F 2230 FA | 13392                   | 7882  | DN 200      | 6                     | 242       | 750              | 1572 | 386 | 523 |
| F 3720 FP / F 3720 FM / F 3720 FA | 22320                   | 13137 | DN 250      | 10                    | 472       | 1000             | 1733 | 482 | 523 |
| F 5210 FP / F 5210 FM / F 5210 FA | 31248                   | 18390 | DN 300      | 14                    | 583       | 1050             | 1836 | 513 | 523 |



<sup>1)</sup> All F.A.-filters without and all F.FP- / F.FM-filters with differential pressure gauge and condensate drain. <sup>2)</sup> At +20°C and f bar absolute at 7 bar excess pressure.

### Correction factor f for other operating pressures

| Operating pressure [bar] | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 16   |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Correction factor [f]    | 0,38 | 0,53 | 0,65 | 0,76 | 0,85 | 0,93 | 1,00 | 1,06 | 1,14 | 1,19 | 1,25 | 1,32 | 1,37 | 1,41 | 1,47 | 1,52 |

**Example:** Pressure [P]: 8 bar; Volume flow [V]: 4,8 m<sup>3</sup>/min, Correction factor [f]: 1,06

$$\frac{\text{Volume flow [V]} 4,8 \text{ m}^3/\text{min}}{\text{Correction factor [f]} 1,06} = 4,53 \text{ m}^3/\text{min} \rightarrow \text{F 65-2 P}$$