ABAC
AIR COMPRESSORS



# THE NEW ABAC FILTERS RANGE. OUR MOST SUPERIOR FILTRATION

Light, reliable and easy.
Compressed air in its purest form.



# Pure Air. Anytime. Anywhere.




- Top performance products which offer high reliability
- Service always at your disposal through our vast Distribution network
- Safeguard long-term productivity by using original parts
- Support your operations, raise your business
- High quality air for the most demanding needs

## Customer benefits

1. STRAIGHT FORWARD MAINTENANCE
Maintenance is painless and safe thanks to the external, manual & automatic drains supplied as standard.

2. RISK-FREE OPERATIONS
Safety is mandatory when structuring and checking your processes. Features like the single start thread, fixed thread engagement and stop-and-lock indication arrows prevent over-tightening and ensure effective sealing requirements.

3. ENERGY EFFICIENCY
Advanced filter design to optimize flow capabilities, significantly reducing differential pressure and thus increasing energy efficiency. The result is the lowest possible total cost of ownership.

4. FLEXIBLE INSTALLATION
The filters can easily be installed both in new or existing compressed air installations, available in 1/8" to 3" threaded BSP and NPT port sizes and flow rates from 10-2550 $m^3/h$ (6 - 1500 scfm.)

5. MODULAR FILTERS
Low-cost connecting kits, wall mounting brackets and a new filter head design enable easy connection of the filters and make your applications always fast and successful.

6. HIGH-STANDARD QUALITY
The housings and elements are manufactured using high quality components, tested and validated in accordance with ISO 12500-1 & ISO 8573-1 2010.

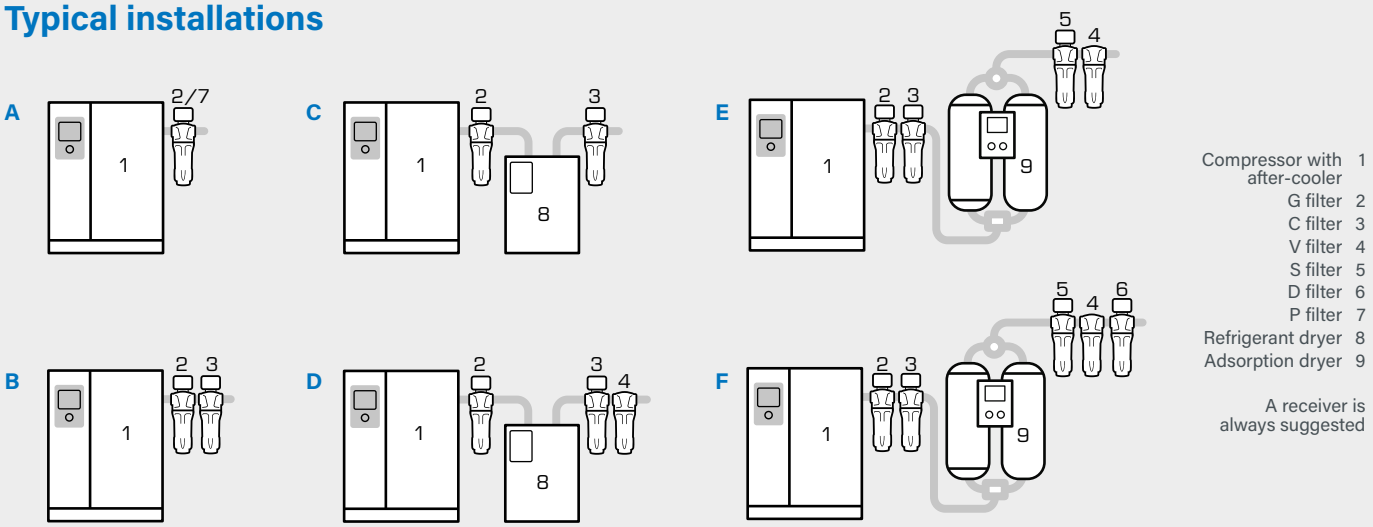
7. ONE-OF-A-KIND DESIGN
A unique, in-house design protects your air quality and ensures filtration process is led efficiently.

8. USER-FRIENDLY
The corrosion resistant end caps are color-coded for easy filtration grade differentiation. Differential pressure indicators and gauges are available.

## Is your compressed air pure and clean?

Dust, various impurities, hydrocarbons and water in the form of humidity are the main contamination agents enclosed in atmospheric air. Compression process escalates and steps up the concentration of such pollution in the air, representing a threat for your business. Compressed air circuits are filled with these contaminants and corrosion comes as the natural effect of such problems. Protect and maintain your downstream equipment thanks to ABAC air filters.

## Typical installations




Compressor with after-cooler 1
G filter 2
C filter 3
V filter 4
S filter 5
D filter 6
P filter 7
Refrigerant dryer 8
Adsorption dryer 9

A receiver is always suggested

**A** General purpose protection air purity to ISO 8573-1:2010
G filter [ 3 : - : 3 ]
P filter [ 4 : - : 3 ]

**B** General purpose protection and reduced oil concentration air purity to ISO 8573-1:2010
[ 1 : - : 2 ]

**C** High quality air with reduced dew point air purity to ISO 8573-1:2010
[ 1 : 4 : 2 ]

**D** High quality air with reduced dew point and oil concentration air purity to ISO 8573-1:2010
[ 1 : 4 : 1 ]

**E** High quality air with extremely low dew point air purity to ISO 8573-1:2010
[ 2 : 2 : 1 ]

**F** High quality air with extremely low dew point air purity to ISO 8573-1:2010
[ 1 : 2 : 1 ]

## Filtration Grades



| | P | G | S | C | D | V |
|---|---|---|---|---|---|---|
| **Particle removal (micron) ■** | 5 | - | 1 | - | 0.01 | - |
| **Outlet oil aerosol concentration (mg/m³) ■** | 1 | 0.3 | - | 0.01 | - | 0.003 |
| **Total mass efficiency (%)** | >90 | >99.25 | - | >99.9 | - | - |
| **Quality class of air at outlet (particles / oil) ▲** | 4 / 3 | - / 3 | 3 / - | - / 2 | 1 / - | - / 1 |
| **Initial pressure drop over filter in dry applications (bar)** | 0.05 | 0.055 | 0.055 | 0.085 | 0.085 | 0.115 |
| **Initial pressure drop over filter in wet applications (bar) ✶** | 0.08 | 0.125 | - | 0.125 | - | - |

**CORRECTION FACTORS**

For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure

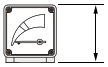
| **Operating pressure barg (psig)** | 4 (58) | 5 (72) | 6 (87) | 7 (100) | 8 (115) | 10 (145) | 12 (174) | 14 (203) | 16 (232) | 20 (290) |
|---|---|---|---|---|---|---|---|---|---|---|
| **Correction factor** | 0,76 | 0,84 | 0,92 | 1,00 | 1,07 | 1,19 | 1,31 | 1,41 | 1,51 | 1,6 |

## Technical specifications

| | Filter Size | Flow Rate / Size ● | | | Conn. Size | Dimensions (mm) | | | | Weight (KG) Approx. | Element Model |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | m³/h | lt/min. | SCFM | | A | B | C | E | | |
| Coalescing & Particulate | 1 | 10 | 168 | 6 | (G1/8) | 50 | 17 | 157 | 60 | 0,25 | F (Grade) 1 |
| | 2 | 25 | 414 | 15 | (G1/4) | 50 | 17 | 157 | 60 | 0,25 | F (Grade) 2 |
| | 3 | 42 | 702 | 25 | (G1/4) | 70 | 24 | 231 | 70 | 0,6 | F (Grade) 3 |
| | 4 | 54 | 900 | 32 | (G3/8) | 70 | 24 | 231 | 70 | 0,6 | F (Grade) 4 |
| | 5 | 85 | 1.416 | 50 | (G1/2) | 70 | 24 | 231 | 70 | 0,6 | F (Grade) 5 |
| | 6 | 119 | 1.986 | 70 | (G1/2) | 127 | 32 | 285 | 80 | 1,7 | F (Grade) 6 |
| | 7 | 144 | 2.400 | 85 | (G3/4) | 127 | 32 | 285 | 80 | 1,7 | F (Grade) 7 |
| | 8 | 178 | 2.964 | 105 | (G1) | 127 | 32 | 285 | 80 | 1,7 | F (Grade) 8 |
| | 9 | 212 | 3.534 | 125 | (G3/4) | 127 | 32 | 371 | 80 | 2 | F (Grade) 9 |
| | 10 | 297 | 4.950 | 175 | (G1) | 127 | 32 | 371 | 80 | 2 | F (Grade) 10 |
| | 11 | 476 | 7.932 | 280 | (G1 1/4) | 140 | 40 | 475 | 80 | 3 | F (Grade) 11 |
| | 12 | 545 | 9.084 | 321 | (G1 1/2) | 140 | 40 | 475 | 80 | 3 | F (Grade) 12 |
| | 13 | 765 | 12.750 | 450 | (G2) | 170 | 53 | 508 | 100 | 4,9 | F (Grade) 13 |
| | 14 | 1189 | 19.818 | 700 | (G2) | 170 | 53 | 708 | 100 | 5,5 | F (Grade) 14 |
| | 15 | 1444 | 24.066 | 850 | (G2 1/2) | 220 | 70 | 736 | 100 | 10,5 | F (Grade) 15 |
| | 16 | 1529 | 25.482 | 900 | (G3) | 220 | 70 | 736 | 100 | 10,5 | F (Grade) 16 |
| | 17 | 2125 | 35.418 | 1250 | (G3) | 220 | 70 | 857 | 100 | 11,5 | F (Grade) 17 |
| | 18 | 2550 | 42.498 | 1500 | (G3) | 220 | 70 | 1005 | 100 | 12,5 | F (Grade) 18 |
| Water Separators | 1 | 10 | 168 | 6 | (G1/8) | 50 | 17 | 157 | 60 | 0,25 | NA |
| | 2 | 25 | 414 | 15 | (G1/4) | 50 | 17 | 157 | 60 | 0,25 | NA |
| | 3 | 42 | 702 | 25 | (G1/4) | 70 | 24 | 231 | 70 | 0,6 | NA |
| | 4 | 59 | 984 | 35 | (G3/8) | 70 | 24 | 231 | 70 | 0,6 | NA |
| | 5 | 85 | 1.416 | 50 | (G1/2) | 70 | 24 | 231 | 70 | 0,6 | NA |
| | 6 | 119 | 1.986 | 70 | (G1/2) | 127 | 32 | 285 | 80 | 1,7 | NA |
| | 7 | 212 | 3.534 | 125 | (G3/4) | 127 | 32 | 285 | 80 | 1,7 | NA |
| | 8 | 297 | 4.950 | 175 | (G1) | 127 | 32 | 285 | 80 | 1,7 | NA |
| | 9 | 476 | 7.932 | 280 | (G1 1/4) | 140 | 40 | 475 | 80 | 3 | NA |
| | 10 | 545 | 9.084 | 321 | (G1 1/2) | 140 | 40 | 475 | 80 | 3 | NA |
| | 11 | 1189 | 19.818 | 700 | (G2) | 170 | 53 | 508 | 100 | 4,9 | NA |
| | 12 | 1444 | 24.066 | 850 | (G2 1/2) | 220 | 70 | 413 | 100 | 8 | NA |
| | 13 | 2550 | 42.498 | 1500 | (G3) | 220 | 70 | 413 | 100 | 8 | NA |

■ Referred to an absolute pressure of 1 bar and temperature of 20 °C
▲ According to ISO 8573-1:2010 in a typical installation
✶ According to ISO 12500-1 at oil concentration upstream of the filter of 10 mg/m³ (Grade G = 40 mg/m³)
● At reference conditions, unless otherwise stated and according to ISO 1217, third edition, annex C

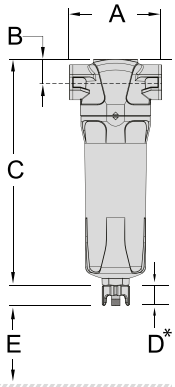
### DIFFERENTIAL PRESSURE EQUIPMENT




+ 71 mm high




+ 42 mm high




### *DRAINS




D = + 28 mm
Automatic Drain
(without adapter)




D = + 30 mm
Automatic Drain
(with adapter)




D = + 32 mm
Manual Drain
(without adapter)




D = + 42 mm
Manual Drain
(with adapter)

**FILTER EN** · MARCH 2020

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