



High efficiency compressed
air filtration & water separation



Innovative Compressed Air Purification

CF & X RANGE

A filter range you can trust

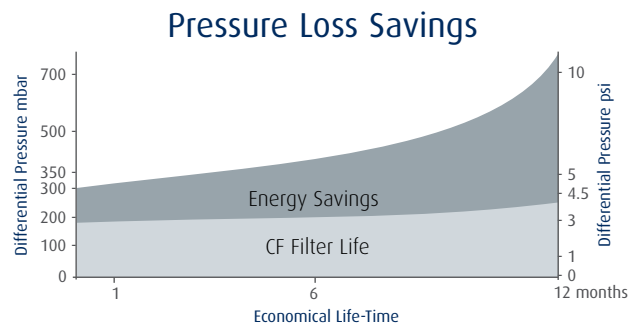
The reliability of compressed air filtration is paramount to the ongoing fight against problems caused through contamination entering the air system. Contamination in the form of dirt, oil and water can lead to:

- Pipescale and corrosion within pressure vessels
- Damage to production equipment, air motors, air tools, valves and cylinders
- Premature and unplanned desiccant replacement for adsorption dryers
- Spoiled product

The CompAir filtration range offers various products and grades of filtration to provide peace of mind whatever the air quality requirement.

CompAir filtration solutions that pay off

CompAir's commitment to providing energy efficient products does not end with the compressor ranges. The air treatment products are perfectly balanced to provide compressed air users with a wide choice of products to gain the right level of performance with optimum energy savings.



Choose CompAir filters to protect your production processes with reduced energy consumption, CO₂ emissions and operational costs.

Innovative features mean outstanding performance without compromise

With differential pressure that starts low and stays low, these filters offer a solution to people who want high performance filtration without the usual high energy running costs. Independently verified by Llyods Register using ISO12500 and ISO8573 test methods, these products either meet or exceed the requirements of ISO8573-1.

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The CompAir filter range has been constantly innovated and has become a leading technology, providing the exact balance between air quality, energy efficiency and low lifetime costs.

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Compressed Air Purification – The perfect choice!

Water Separation – The X-Range of water separators

The X-range of water separators provide bulk condensed water and liquid oil removal and are used to protect coalescing filters against bulk liquid contamination.

0.6 – 421 m³/min*

21 – 14885 cfm*



Filtration – The CF-Range of cast filters

The CF-range of filters efficiently removes water and oil aerosols, atmospheric dirt and solid particles, rust, pipescale and micro-organisms.

0.6 – 60 m³/min*

21 – 2119 cfm*



Compressed air contamination will ultimately lead to:

- ▼ Inefficient production processes
- ▼ Spoiled, damaged or reworked products
- ▼ Reduced production efficiency
- ▼ Increased manufacturing costs

Filtration – The CF-Range of flanged filters

For larger flowrate or higher pressure applications the flanged filters are available in the standard five filtration grades.

37 – 521 m³/min*

1312 – 18380 cfm*

* Flow rate at 25° C, 7 bar



Energy savings without compromised performance

High efficiency bulk liquid removal

Water separators remove bulk liquids such as condensate, water and liquid oil from the air flow through directional and centrifugal separation. Installed before a coalescing filter the water separator can provide added protection against bulk liquid contamination enabling the filter to operate more efficiently. The X water separator range from CompAir can operate across various flow conditions and have been optimised to reduce differential pressure with very low maintenance.



Air quality and energy efficiency through design

The benefit of energy saving without compromised performance is achieved through a number of unique and patented design features which minimise differential pressure.

The CompAir cast filter range combine filter housing and element to work together in maximising energy savings and provide low lifetime costs without compromising on air quality.

The CompAir cast filter housings provide many features leading to direct benefits.

Large range of port sizes to match both pipe size and system flow rate to simplify installation and remove the need for expensive adaptors and fittings.

Large range of filtration grades to match the applications air quality needs.





Annual service is easy and clean to carry out thanks to an easy to grip housing bowl and no need for the user to directly handle the contaminated element.

Filter housings are guaranteed for 10 years against corrosion providing increased safety and peace of mind.

High efficiency even at high flow rates

Designed in accordance with ASME VIII Div 1 from carbon steel, the CompAir fabricated filter range can operate at higher flow rates up to 421 m³/min (14885 cfm) with high filtration performance. Generous flanged connections and element design features provide a starts low stays low differential pressure which leads to lifetime energy savings and excellent product performance.

These filters utilise a unique filter element which allows for quick and easy maintenance, pleated element technology gives increases filtration and a special drainage layer ensures all coalesced liquids are removed.



To meet varying requirements, CompAir filters are available in three filter grades:

Type B: General Purpose Protection

Particle removal down to 1 micron, including water and oil aerosols. Maximum remaining oil aerosol content:

0.6 mg / m³ at 21 °C / 0.5 ppm(w) at 70 °F.

Type C: High Efficiency Oil Removal Filtration & High Efficiency Dust Filtration

Particle removal down to 0.01 micron, including water and oil aerosols. Maximum remaining oil aerosol content:

0.01 mg / m³ at 21 °C / 0.01 ppm(w) at 70 °F.

Type D: Oil Vapour & Odour Removal

Maximum remaining oil vapour content:

0.003 mg / m³ at 21 °C / 0.003 ppm(w) at 70 °F.

Increased productivity and profitability through regular maintenance



By guaranteeing air quality and ensuring energy consumption is kept to a minimum, CompAir purification products can reduce the total cost of ownership and help improve profitability through improved manufacturing efficiencies.



Options & Accessories



Filter fixing kits

Fixing clamp allows quick and simple connection of multiple filter housings.

Filter mounting brackets

Mounting brackets provide additional support to filters installed in flexible piping systems or OEM equipment.

Incident monitor

Used to indicate premature high differential pressure. The Indicator can be retrofitted to existing housings without depressurising the system.



Maintaining air quality and energy efficiency through regular maintenance

Filters are installed to provide contaminant removal to a specific air quality requirement, therefore the primary reason to change filter elements should always be to maintain air quality and they should therefore be replaced every 12 months.



Float drain



Electronic drain

Choice of drains

Manual, float and electronic drain option available. Easy connection with standard fittings via 1/2" threaded drain port.

The benefits of annual filter element changes

- Guaranteed optimised performance
- Air quality continues to meet international standards
- Protection of downstream equipment, personnel and processes
- Low operational costs
- Increased productivity and profitability
- Continued piece of mind

Technical Data - Compressed Air Condensate Separators - X Series

| Separator Type ³⁾ including float drain | Port Size ISO228-1 BSPP | Air Flow Rates m ³ /min cfm | | | | | Length mm / in | Height mm / in | Depth mm / in | Weight kg / lbs | | | | | |
|-------------------------------------------------------|-------------------------------|----------------------------------------|-----------------|---------------------|------------------|---------------------|-------------------|---------------------|------------------|---------------------|-------|-------------------|-------------------|------------------|-------------------|
| | | 5 bar / 72 psi | 7 bar / 100 psi | 9 bar / 130 psi | 10 bar / 145 psi | 13 bar / 190 psi | | | | | | | | | |
| X006G1/4 | 1/4" | 0.45 / 15.9 | 0.60 / 21.2 | 0.71 / 25.2 | 0.75 / 26.5 | 0.84 / 29.9 | 76 / 3.0 | 181.5 / 7.2 | 64 / 2.5 | 0.6 / 1.3 | | | | | |
| X006G3/8 | 3/8" | | | | | | | | | | | | | | |
| X006G1/2 | 1/2" | | | | | | | | | | | | | | |
| X024G3/8 | 3/8" | 1.80 / 63.8 | 2.40 / 84.8 | 2.86 / 101 | 3.00 / 106 | 3.38 / 119 | 97.5 / 3.8 | 235 / 9.3 | 84 / 3.3 | 1.1 / 2.4 | | | | | |
| X024G1/2 | 1/2" | | | | | | | | | | | | | | |
| X024G3/4 | 3/4" | | | | | | | | | | | | | | |
| X024G1 | 1" | | | | | | | | | | | | | | |
| X066G3/4 | 3/4" | 4.96 / 175 | 6.60 / 233 | 7.86 / 278 | 8.25 / 291 | 9.29 / 328 | 129 / 5.1 | 275 / 10.8 | 115 / 4.5 | 2.2 / 4.8 | | | | | |
| X066G1 | 1" | | | | | | | | | | | | | | |
| X066G11/4 | 1 1/4" | | | | | | | | | | | | | | |
| X066G11/2 | 1 1/2" | | | | | | | | | | | | | | |
| X210G11/4 | 1 1/4" | 15.79 / 558 | 21.0 / 742 | 25.0 / 883 | 26.25 / 928 | 29.58 / 1045 | 170 / 6.7 | 432 / 17 | 156 / 6.1 | 5.1 / 11.2 | | | | | |
| X210G11/2 | 1 1/2" | | | | | | | | | | | | | | |
| X210G2 | 2" | | | | | | | | | | | | | | |
| X480G21/2 | 2 1/2" | 36.09 / 1275 | 48.0 / 1696 | 57.1 / 2019 | 60.0 / 2120 | 67.6 / 2389 | 205 / 8.1 | 504 / 19.9 | 181 / 7.1 | 10 / 22 | | | | | |
| X480G3 | 3" | | | | | | | | | | | | | | |
| Flange housing | Port Size | 5 bar | | 7 bar | | 9 bar | | 10 bar | | 13 bar | | Length mm / in | Height mm / in | Depth mm / in | Weight kg / lb |
| | | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | | | | |
| X480GF | DN80 | 41 | 1441 | 48 | 1695 | 54 | 1915 | 57 | 2017 | 65 | 2305 | 370 / 14.6 | 1070 / 42.1 | 285 / 11.2 | 66 / 146 |
| X600GF | DN100 | 51 | 1801 | 60 | 2119 | 68 | 2394 | 71 | 2522 | 82 | 2882 | 450 / 17.7 | 1120 / 44.1 | 340 / 13.4 | 102 / 225 |
| X1080GF | DN150 | 92 | 3242 | 108 | 3814 | 122 | 4310 | 129 | 4539 | 147 | 5187 | 580 / 22.8 | 1240 / 48.8 | 460 / 18.1 | 191 / 434 |
| X1800GF | DN200 | 153 | 5556 | 180 | 6537 | 203 | 7387 | 214 | 7779 | 245 | 8890 | 750 / 29.5 | 1585 / 62.4 | 640 / 25.2 | 397 / 875 |
| X2880GF | DN250 | 245 | 8645 | 288 | 10171 | 325 | 11493 | 343 | 12103 | 392 | 13833 | 862 / 33.9 | 1570 / 61.8 | 715 / 28.2 | 537 / 1184 |
| X4320GF | DN300 | 358 | 12652 | 421 | 14885 | 476 | 16820 | 501 | 17713 | 573 | 20244 | 1000 / 39.4 | 1610 / 63.4 | 840 / 33.1 | 675 / 1488 |

¹⁾ supplied with float drain / optional zero loss drain. For pressures of 16 to 20 bar (g) an alternative drain must be used.

Technical Data - Compressed Air Filter - CF Series

| Filter Model CF_G Port & Grade B_C_D | Port Size ISO228-1 BSPP | Air Flow Rates ¹⁾ m ³ /min cfm | | | | | Length mm / in | Height mm / in | Depth mm / in | Weight kg / lbs | Replacement Element CF_G Port & Grade B_C_D | | | | | |
|-----------------------------------------|-------------------------------|------------------------------------------------------|------------------|---------------------|-------------------|---------------------|-------------------|---------------------|------------------|---------------------|---------------------------------------------------|-------------------|-------------------|------------------|-------------------|------------------------|
| | | 5 bar 72 psi | 7 bar 100 psi | 9 bar 130 psi | 10 bar 145 psi | 13 bar 190 psi | | | | | | | | | | |
| CF0006G1/4 (Grade) | G1/4" | 0.51 / 18.0 | 0.6 / 21.2 | 0.68 / 24.0 | 0.71 / 25.2 | 0.82 / 28.8 | 76.0 / 3.0 | 181.5 / 7.12 | 64 / 2.5 | 0.6 / 1.3 | CE0006G B_C_D | | | | | |
| CF0006G3/8 (Grade) | G3/8" | | | | | | | | | | | | | | | |
| CF0006G1/2 (Grade) | G1/2" | | | | | | | | | | | | | | | |
| CF0012G3/8 (Grade) | G3/8" | 1.02 / 36.0 | 1.20 / 42.4 | 1.36 / 47.9 | 1.43 / 50.5 | 1.63 / 57.7 | 97.5 / 3.8 | 235 / 9.3 | 84 / 3.3 | 1.1 / 2.4 | CE0012G B_C_D | | | | | |
| CF0012G1/2 (Grade) | G1/2" | | | | | | | | | | | | | | | |
| CF0018G1/2 (Grade) | G1/2" | 1.53 / 54.1 | 1.80 / 63.6 | 2.03 / 71.9 | 2.14 / 75.7 | 2.45 / 86.5 | 97.5 / 3.8 | 235 / 9.3 | 84 / 3.3 | 1.1 / 2.4 | CE0018G B_C_D | | | | | |
| CF0018G3/4 (Grade) | G3/4" | | | | | | | | | | | | | | | |
| CF0018G1 (Grade) | G1" | | | | | | | | | | | | | | | |
| CF0036G3/4 (Grade) | G3/4" | 3.06 / 108 | 3.60 / 127 | 4.07 / 144 | 4.28 / 151 | 4.90 / 173 | 129.0 / 5.1 | 274.8 / 10.8 | 115 / 4.5 | 2.2 / 4.8 | CE0036G B_C_D | | | | | |
| CF0036G1 (Grade) | G1" | | | | | | | | | | | | | | | |
| CF0066G1 (Grade) | G1" | 5.61 / 198 | 6.60 / 233 | 7.46 / 263 | 7.85 / 277 | 8.98 / 317 | 129.0 / 5.1 | 364.3 / 14.3 | 115 / 4.5 | 2.7 / 5.9 | CE0066G B_C_D | | | | | |
| CF0066G11/4 (Grade) | G1 1/4" | | | | | | | | | | | | | | | |
| CF0066G11/2 (Grade) | G1 1/2" | | | | | | | | | | | | | | | |
| CF0096G11/4 (Grade) | G1 1/4" | 8.16 / 288 | 9.60 / 339 | 10.8 / 383 | 11.4 / 404 | 13.1 / 461 | 170.0 / 6.7 | 432.5 / 17.0 | 156 / 6.1 | 5.1 / 11.2 | CE0096G B_C_D | | | | | |
| CF0096G11/2 (Grade) | G1 1/2" | | | | | | | | | | | | | | | |
| CF0132G11/2 (Grade) | G1 1/2" | 11.22 / 396 | 13.20 / 466 | 14.92 / 527 | 15.71 / 555 | 17.95 / 634 | 170.0 / 6.7 | 524.5 / 20.6 | 156 / 6.1 | 5.7 / 12.5 | CE0132G B_C_D | | | | | |
| CF0132G2 (Grade) | G2" | | | | | | | | | | | | | | | |
| CF0198G2 (Grade) | G2" | 16.83 / 595 | 19.80 / 670 | 22.37 / 791 | 23.56 / 833 | 26.93 / 951 | 170.0 / 6.7 | 524.5 / 20.6 | 156 / 6.1 | 5.7 / 12.5 | CE0198G B_C_D | | | | | |
| CF0258G21/2 (Grade) | G2 1/2" | 21.93 / 775 | 25.8 / 912 | 29.15 / 1030 | 30.70 / 1085 | 35.09 / 1240 | 204.8 / 8.1 | 641.6 / 25.3 | 181 / 7.1 | 11.1 / 24.4 | CE0258G B_C_D | | | | | |
| CF0258G3 (Grade) | G3" | | | | | | | | | | | | | | | |
| CF0372G21/2 (Grade) | G2 1/2" | 31.62 / 1117 | 37.20 / 1314 | 42.04 / 1485 | 44.27 / 1564 | 50.59 / 1788 | 204.8 / 8.1 | 832.1 / 32.8 | 181 / 7.1 | 13.9 / 30.6 | CE0372G B_C_D | | | | | |
| CF0372G3 (Grade) | G3" | | | | | | | | | | | | | | | |
| CF0600G4 (Grade) | G4" | 51.0 / 1802 | 60 / 2120 | 67.8 / 2396 | 71.4 / 2523 | 81.6 / 2883 | 840 / 16.5 | 1694 / 33.3 | 282 / 11.1 | 44.5 / 98.1 | 3 X CE0600N B_C_D-F | | | | | |
| Fabricated Housing ²⁾ | Port Size | 5 bar | | 7 bar | | 9 bar | | 10 bar | | 13 bar | | Length mm / in | Height mm / in | Depth mm / in | Weight kg / lb | Replacement Element |
| | | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | m ³ /min | CFM | | | | | |
| CF0372G (GRADE) F | DN80 | 32 | 1115 | 37 | 1312 | 42 | 1483 | 44 | 1561 | 51 | 1784 | 440 / 17.3 | 1065 / 42 | 340 / 13.4 | 70 / 154 | 1 X CE0372 (GRADE) |
| CF0744G (GRADE) F | DN100 | 63 | 2231 | 74 | 2625 | 84 | 2966 | 89 | 3124 | 101 | 3570 | 500 / 19.7 | 1152 / 45.4 | 405 / 16 | 97 / 214 | 2 X CE0372 (GRADE) |
| CF1116G (GRADE) F | DN150 | 95 | 3347 | 112 | 3938 | 126 | 4450 | 133 | 4686 | 152 | 5356 | 600 / 23.6 | 1256 / 49.5 | 520 / 20.5 | 148 / 326 | 3 X CE0372 (GRADE) |
| CF1488G (GRADE) F | DN150 | 126 | 4463 | 149 | 5251 | 168 | 5934 | 177 | 6249 | 202 | 7141 | 650 / 25.6 | 1332 / 52.4 | 580 / 22.8 | 187 / 412 | 4 X CE0372 (GRADE) |
| CF2232G (GRADE) F | DN200 | 190 | 6695 | 223 | 7877 | 252 | 8901 | 266 | 9374 | 304 | 10713 | 750 / 29.5 | 1415 / 55.7 | 640 / 25.2 | 240 / 529 | 6 X CE0372 (GRADE) |
| CF3720G (GRADE) F | DN250 | 316 | 11160 | 372 | 13129 | 420 | 14836 | 443 | 15624 | 506 | 17855 | 1000 / 39.4 | 1603 / 63.1 | 840 / 33 | 470 / 1036 | 10 X CE0372 (GRADE) |
| CF5208G (GRADE) F | DN300 | 443 | 15623 | 521 | 18380 | 589 | 20769 | 620 | 21872 | 708 | 24997 | 1050 / 41.3 | 1706 / 57.2 | 910 / 35.8 | 580 / 1279 | 14 X CE0372 (GRADE) |

¹⁾ For flowrates at other pressures, apply the correction factor shown.
²⁾ Fabricated housings flanged to BS 4504 PN16 and designed to CEJ 286 Part 1 (1991). Other pressure vessel standards available.
³⁾ supplied with float drain / optional electronic drain
⁴⁾ supplied with manual drain

| CF Filter Grade | Temperature Range C / F | Initial Differential Pressure | | Filtration | Pressure Max. bar / psi | Recommended Temperature |
|-----------------|----------------------------|-------------------------------|-------------------|------------|----------------------------|----------------------------|
| | | Dry mbar / psi | Wet mbar / psi | | | |
| B ³⁾ | 1.5 - 66 / 35 - 150 | 70 / 1 | 140 / 2 | Wet | 16 / 232 | 1.5 - 80 / 35-176 |
| C ³⁾ | | 100 / 1.5 | 200 / 3 | | | |
| D ⁴⁾ | | 1.5 - 50 / 35 - 122 | 70 / 1 | | Dry | 20 / 290 |

| Line Pressure | bar g | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-------------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | psi g | 15 | 29 | 44 | 58 | 73 | 87 | 100 | 116 | 131 | 145 | 160 | 174 | 189 | 203 | 218 | 232 |
| Correction Factor | | 0.38 | 0.53 | 0.65 | 0.76 | 0.85 | 0.93 | 1.00 | 1.07 | 1.13 | 1.19 | 1.25 | 1.31 | 1.36 | 1.41 | 1.46 | 1.51 |

Global experience – truly local service

With over 200 years of engineering excellence, the CompAir brand offers an extensive range of highly reliable, energy efficient compressors and accessories to suit all applications.

An extensive network of dedicated CompAir sales companies and distributors across all continents provide global expertise with a truly local service, ensuring our advanced technology is backed up with the right support.

As part of the worldwide Gardner Denver operation, CompAir has consistently been at the forefront of compressed air systems development, culminating in some of the most energy efficient and low environmental impact compressors on the market today, helping customers achieve or surpass their sustainability targets.



CompAir compressed air product range

Advanced Compressor Technology Lubricated

- Rotary Screw
 - > Fixed and Regulated Speed
- Piston
- Portable

Oil-Free

- Water Injected Screw
 - > Fixed and Regulated Speed
- Two Stage Screw
 - > Fixed and Regulated Speed
- Piston
- High Speed Centrifugal - Quantima®

Complete Air Treatment Range

- Filter
- Refrigerant and Desiccant Dryer
- Condensate Management
- Heat of Compression Dryer
- Nitrogen Generator

Modern Control Systems

- CompAir DELCOS Controllers
- SmartAir Master Sequencer

CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the company's conditions of sale.

Value Added Services

- Professional Air Audit
- Performance Reporting
- Leak Detection

Leading Customer Support

- Custom Engineered Solutions
- Local Service Centres
- Genuine CompAir Parts and Lubricants

www.compair.com sales@compair.com