



Compressed Air Filters



Intelligent Air Technology



The Clean Air Solution

The advanced range of CompAir inline equipment has been specially developed to meet the needs of modern manufacturing and processing industries ensuring that the air delivered is of the highest quality.

CompAir is committed to providing the very best products throughout the compressed air systems from compressor to final air delivery.

CompAir's experience in the design and manufacture of high quality compressed air systems spans almost 200 years. Today, through a continuous program of research and development, CompAir delivers the high performance and quality standards that industry demands.

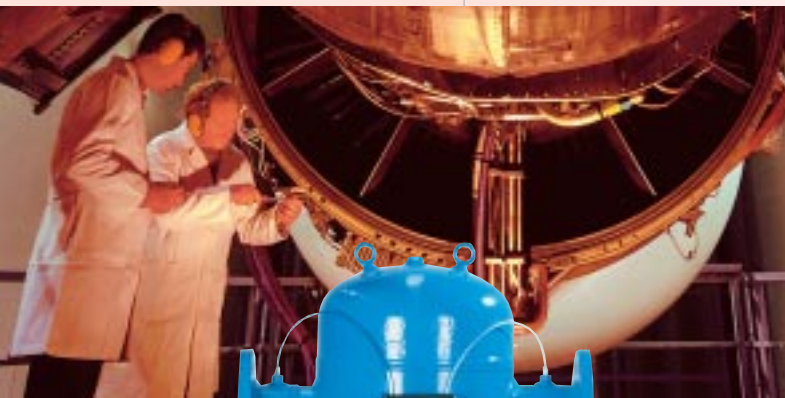
Clean and dry compressed air

Air leaving any conventional air compressor is saturated with water vapor and may also contain small quantities of oil and atmospheric dirt particles. If allowed to remain in the system this corrosive mixture has a detrimental effect on pneumatic equipment.

CompAir filters remove the oil and dirt from compressed air while CompAir dryers remove water vapor before it reaches the point of use. The clean, dry air provided by CompAir air treatment products extends equipment life, reduces maintenance costs and improves efficiency and reliability.

CompAir filters and dryers are sized to match the requirements of modern air compressors covering outputs from 19 CFM to 16527 CFM with dryers providing dew points as low as -94°F.

Ongoing investment in the latest design and manufacturing tools and rigorous implementation of ISO 9001 approved quality systems ensure you take delivery of a reliable, high quality product.



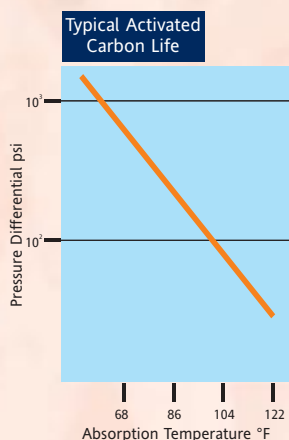
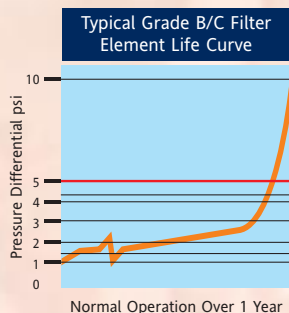
ISO 8573.1 Air Quality Classes			
QUALITY CLASS	DIRT Particle size in Micron	WATER Pressure Dewpoint °F (ppm. vol.) at 102psi	OIL (including vapor) mg/m ³
1	0.1	-94 (0.3)	0.01
2	1	-40 (16)	0.1
3	5	-4 (128)	1.0
4	15	+37 (940)	5
5	40	+45 (1240)	25
6	-	+50 (1500)	-



Reduce Your Compressor Energy Costs

A, B and C Grade filters are coalescing types

Air flow is from the inside of the filter element to the outside (1) passing through stainless steel support screens (2). The air passes through pre-filter material (3) where larger particles are removed. The remaining contaminants are then progressively filtered by a micro fiber medium (4). Solid particles are permanently trapped while liquids (including aerosols) coalesce into larger droplets which pass to an acid resistant anti-re-entrainment barrier (5). The larger droplets form a "wet band" (6) at the base of the element and are discharged (7) from the filter via an automatic drain. Clean filtered air passes through the "safe" area above the wet band where the resistance to flow is minimal. A captive O-ring seal (8) provides easy to fit positive sealing.



General Purpose Dust Filtration

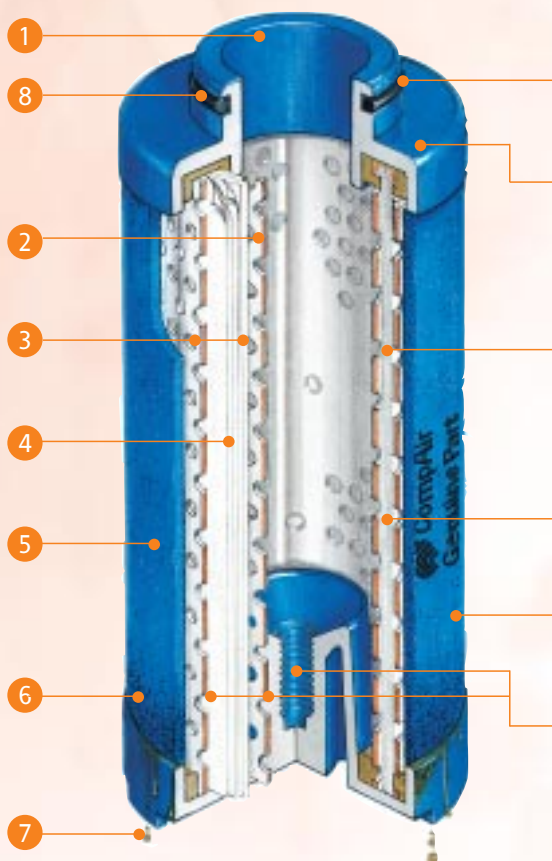
Grade E dust filters are designed to remove solid particulate and operate in a dry condition.

Oil Vapor Removal

Grade D activated carbon filters operate on the adsorption principle:-
 Air flow is from the inside of the filter element to the outside through a deep bed of activated carbon. The carbon is in fine granular form to offer the maximum surface area. A layer of high efficiency filter material then traps any carbon dust which may have been released. Air passing out of a Grade D filter can be 1 million times cleaner than the air we normally breathe*. Grade CD filter types from 0004 to 0051 are two stage combination units incorporating both Grade C and D filter elements.

NOTE: it is essential that Grade D filter models are protected upstream by Grade B and C filters.

*Grade D filters are not designed to remove carbon monoxide, carbon dioxide or other toxic gases or fumes.



1 AIR TIGHT - Positive 'O' ring seal prevents contamination by-pass.

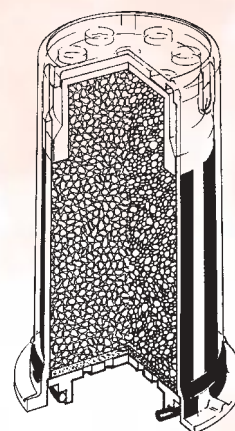
2 CHEMICAL RESISTANT - Tough corrosion resistant end caps withstand the worst compressed air conditions.

3 96% VOIDS VOLUME - gives long life with minimum pressure drop.

4 HIGH EFFICIENCY - Anti re-entrainment barrier prevents oil/water carry over and is compatible with mineral or synthetic lubricants.

5 SILICONE FREE - For all critical applications.

6 MAXIMUM STRENGTH - Inner and outer stainless steel support screens and tie rod fixing gives up to 145 psi ΔP.



High activated carbon content for long service life. Oil soluble dye will indicate red if bulk oil is present.

Technical Specifications

Filter Type	Pipe Size	Flow Rates @ 100 psi g (7 bar g)			Dimensions (inches)					Weight (lbs)	Replacement Element Kit	
		L/S	cfm	m ³ /hr	A	B	C	D	E		Type	No
CF 0005 (grade)	1/4"	9	19	32	3"	1 1/4"	5 1/4"	-	2 1/4"	1.1	CF 0005 (grade)	1
CF 0010 (grade)	3/8"	17	36	61	3 1/2"	1 1/2"	6 1/4"	-	3 3/4"	2.2	CF 0010 (grade)	1
CF 0018 (grade)	1/2"	30	64	108	3 1/2"	1 5/8"	7 7/8"	-	5 1/8"	2.4	CF 0018 (grade)	1
CF 0036 (grade)	3/4"	60	127	216	4 1/4"	2 1/8"	9 7/8"	-	6 3/4"	5.3	CF 0036 (grade)	1
CF 0048 (grade)	1"	80	170	288	4 3/4"	2 3/8"	13 13/16"	-	10 3/4"	6.4	CF 0048 (grade)	1
CF 0072 (grade)	1 1/4"	120	254	432	4 3/4"	2 3/8"	13 13/16"	-	10 3/4"	6.4	CF 0072 (grade)	1
CF 0087 (grade)	1 1/2"	145	307	522	4 3/4"	2 3/8"	13 13/16"	-	10 3/4"	6.4	CF 0087 (grade)	1
CF 0120 (grade)	1 1/2"	200	424	720	6 1/8"	2 1/2"	20 1/4"	-	12 1/2"	20	CF 0120 (grade)	1
CF 0132 (grade)	2"	220	466	792	6 1/8"	2 1/2"	20 1/4"	-	12 1/2"	20	CF 0132 (grade)	1
CF 0198 (grade)	2"	330	699	1,188	6 1/8"	2 1/2"	32 1/8"	-	24 1/2"	28	CF 0198 (grade)	1
CF 0240 (grade)	2 1/2"	400	848	1,440	8"	3 1/8"	23 1/4"	-	15 3/4"	27	CF 0240 (grade)	1
CF 0258 (grade)	3"	430	911	1,548	8"	3 1/8"	23 1/4"	-	15 3/4"	26	CF 0258 (grade)	1
CF 0372 (grade)	3"	620	1,314	2,232	8"	3 1/8"	33 1/4"	-	24 1/2"	46	CF 0372 (grade)	1
CF 0600 (grade)	4"	1,000	2,119	3,600	16 1/2"	3 3/4"	43 3/8"	-	22 1/2"	98	CF 0600 (grade)	3
CF 0120 (grade)	1 1/2" Flange	200	424	720	12"	4 1/2"	24 1/2"	13 1/4"	13 3/4"	79	CF 0120 (grade)	1
CF 0198 (grade)	2" Flange	330	669	1,188	12"	4 3/4"	36 3/4"	13 1/4"	25 1/2"	86	CF 0198 (grade)	1
CF 0376 (grade)	3" Flange	620	1,314	2,232	15 1/8"	7"	42 3/8"	13 1/4"	25 1/2"	97	CF 0376 (grade)	1
CF 0600 (grade)	4" Flange	1,000	2,119	3,600	17 1/4"	8"	44 3/4"	13 1/4"	25 1/2"	191	CF 0600 (grade)	3
CF 0780 (grade)	4" Flange	1,300	2,755	4,680	19 11/16"	9"	48"	13 1/4"	25 1/2"	255	CF 0780 (grade)	4
CF 1170 (grade)	6" Flange	1,950	4,132	7,020	22 7/8"	10 1/4"	51"	13 1/4"	25 1/2"	414	CF 1170 (grade)	6
CF 1950 (grade)	8" Flange	3,250	6,886	11,700	29 1/2"	14 1/4"	59 3/8"	13 1/4"	25 1/2"	631	CF 1950 (grade)	10
CF 3120 (grade)	10" Flange	5,200	11,018	18,720	29 1/8"	16"	66 3/8"	13 1/4"	31 1/2"	1,027	CF 3120 (grade)	16
CF 4680 (grade)	12" Flange	7,800	16,527	28,080	39 3/8"	19 1/8"	70"	13 1/4"	33 1/2"	1,523	CF 4680 (grade)	24
CF 0004 CD	1/4"	6	13	22	3"	5 1/4"	5 1/4"	2 3/4"	2 3/4"	2.2	CE 0005 C & CE 0004 D	1+1
CF 0008 CD	3/8"	13	27	47	3 1/2"	6 1/4"	6 1/4"	3 3/4"	3 3/4"	2.7	CE 0010 C & CE 0008 D	1+1
CF 0015 CD	1/2"	25	53	90	3 1/2"	6 1/4"	7 7/8"	3 3/4"	5 1/2"	3.1	CE 0018 C & CE 0015 D	1+1
CF 0024 CD	3/4"	40	84	144	4 1/2"	9 7/8"	9 7/8"	4 15/16"	6 1/4"	7.1	CE 0036 C & CE 0024 D	1+1
CF 0039 CD	1"	65	136	234	4 3/4"	9 7/8"	13 13/16"	4 15/16"	10 3/4"	8.2	CE 0087 C & CE 0039 D	1+1
CF 0051 CD	1 1/4"	85	178	306	4 3/4"	13 13/16"	13 13/16"	8 7/8"	10 3/4"	8.4	CE 0087 C & CE 0051 D	1+1

Fabricated housings flanged to ANSI Class 150 RF50 and designed to ASME VIII, approval ASME VIII "U". Other pressure vessel standards available.
For flowrates at other pressures, apply the correction factor shown:

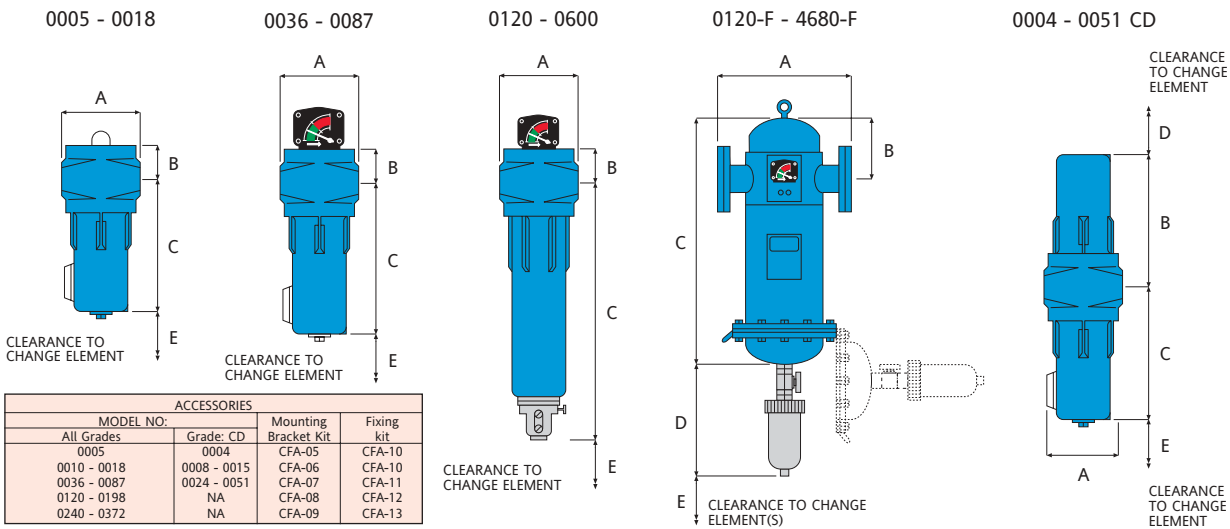
Maximum operating pressure (0005 to 4680-F) with autodrain	232 psi g
Maximum operating pressure (0005 to 0600) without autodrain	290 psi g
Maximum recommended operating temperature (Grade A/B/C/E)	150° F
Maximum recommended operating temperature (Grade D)	86° F
Minimum recommended operating temperature	35° F

Line Pressure	psi g	15	29	87	102	116	131	145	160	174	189	203	232	290
Correction factors		0.38	0.76	0.93	1	1.07	1.13	1.20	1.25	1.31	1.36	1.41	1.51	1.70

Initial differential pressure	
Grade A	1.5 psi
Grade B	2.0 psi
Grade C	3.0 psi
Grade CD (0004 TO 0051)	4.5 psi
Grade D (0005 TO 4680-F)	1.0 psi
Grade E	1.0 psi
Maximum recommended pressure differential for element change: (A, B, C and E filters only)	5 psi

Model No Description

CF 0372 A F



Compressed Air Filters

CompAir compressed air filters are designed to provide the most energy efficient filtration solutions available. Low operating pressure drops mean that your compressor can operate at a lower working pressure than would be required with other filters. Lower working pressures result in reduced energy consumption. For example, a 2% reduction in working pressure results in a 1% saving in compressor energy costs.

To meet varying requirements, CompAir filters are available in five filtration grades:

Grade A - Pre-Filtration

Particle removal down to 25 microns.

Grade B - High Efficiency General Purpose Protection

For the removal of particles down to 1 micron including coalesced liquid water and oil, providing a maximum remaining oil aerosol content of 0.5ppm @ 70°F.

Grade C - High Efficiency Oil Free Protection

For the removal of particles down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01ppm @ 70°F. (Precede with Grade B filter).

Grade D - Activated Carbon Filtration

For the removal of oil vapor and hydrocarbon odors giving a maximum remaining oil content of <0.003ppm (excluding methane) @ 70°F. (Precede Grade D with Grade C filter). (CD double stage filters combine C and D Grades).

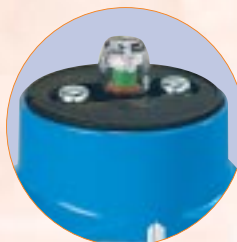
Grade E General Purpose Dust Filtration

For the removal of dust particles down to 1 micron.

The Complete Solution



The direct mounting differential pressure gauge is calibrated for accurate running cost measurement and has a remote sensing option. Fitted as standard on filters 1" and larger (except Grade D & CD filters).



Differential pressure indicator is fitted as standard on filters up to 1/2" connection size (except Grade D & CD filters).



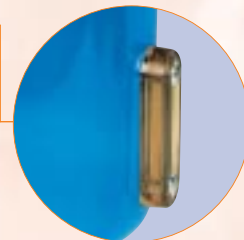
Pressure relief hole gives an audible warning if any attempt is made to remove the filter bowl while under pressure.



Rapid maintenance.



A patented fixing kit (CFA 10 - 13) connects two filters in series and convenient mounting brackets (CFA 5 - 9) are also an option.

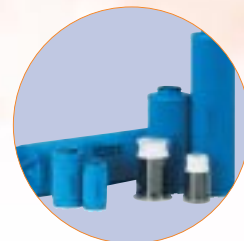


Automatic drain valve is standard so coalesced condensate is always removed (manual drain valve on Grade D and E only).

Sight glass gives a visual check of condensate collection and drain function.



Bleed valve for rapid depressurization and automatic drain function check.



CompAir replacement filter elements ensure performance and long life.



CompAir die-cast aluminium filter housings are corrosion protected by an Alclorom treatment and finished in hard wearing epoxy paint. Fabricated housings are internally and externally epoxy paint finished.



Intelligent Air Technology

Compressed air solutions for every application

Compressors

Up to 2,750 cfm

1 - 604 hp

Up to 6,000 psi

Lubricated

Rotary Vane

Single Stage Screw

Speed Regulated Screw

Piston

Portable

Oil-Free

Two Stage Screw

Water-Sealed Screw

Piston

Portable

Complete Accessories Program

Filters and Dryers

Cooling Systems

Heat Recovery

Condensate Management

Air Receivers

Multi-Set Controllers

Lubricants

Value Added Services

Air Audit

Performance Reporting

Utility Air

Performance Contracting

Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations

Local Service Centers

Guaranteed Parts Availability



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