CompAir Compressed Air Filters

COMPAIR INFO BROCHURE

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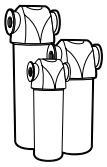
CompAir



THE NEW GENERATION!

COMPRESSED AIR FILTERS AND WATER SEPARATORS

INTELLIGENT AIR TECHNOLOGY

CompAir COMPRESSED AIR FILTERS

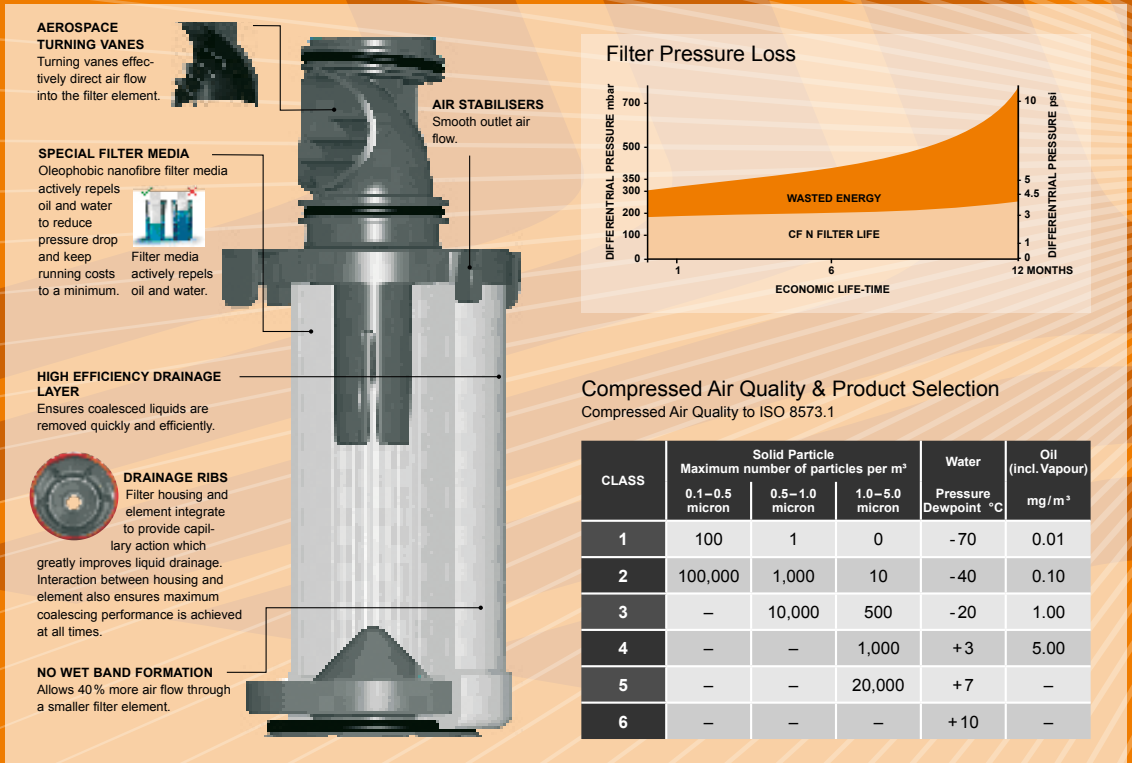
CompAir compressed air filters are designed to provide the most energy efficient filtration solutions available.

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.

Alocrom & dry power epoxy coated filter housing for full corrosion protection.

NEW FILTRATION TECHNOLOGY

CF_N compressed air filters use very little energy as they have a low resistance to air flow.
Advancements such as deep bed pleating, graded density media and an oleophobic coating have led to a high performance filter element with low initial energy costs. Differential pressure starts low and stays low throughout it's life.
Service life is no longer dependent upon differential pressure, but on annual filter element change backed up with a one year air quality guarantee.



Filter Pressure Loss

Compressed Air Quality & Product Selection

Compressed Air Quality to ISO 8573.1

CLASS	Solid Particle Maximum number of particles per m³			Water	Oil (incl. Vapour)
	0.1–0.5 micron	0.5–1.0 micron	1.0–5.0 micron	Pressure Dewpoint °C	mg/m³
1	100	1	0	-70	0.01
2	100,000	1,000	10	-40	0.10
3	–	10,000	500	-20	1.00
4	–	–	1,000	+3	5.00
5	–	–	20,000	+7	–
6	–	–	–	+10	–

5 FILTER VARIANTS AVAILABLE

To meet varying requirements, CompAir filters are available in five filter variants:

TYPE B: HIGH EFFICIENCY 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
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.

TYPE E: GENERAL PURPOSE DUST FILTR ATION
Dry particle removal down to 1 micron.

TYPE F: HIGH EFFICIENCY DUST FILTRATION
Dry particle removal down to 0.01 micron.

ADVANCED FILTER HOUSINGS

COMPACT & LIGHTWEIGHT
Advanced housing and element design has also provided a smaller, more compact and lightweight filter which is quick, easy and clean to maintain.

MINIMAL SERVICE CLEARANCE
Space saving design minimises service clearance and allows installation in confined spaces.

"Clean Change" Filter Element
Element changes are now easy and do not require the user to touch the contaminated element during annual element change.

No corrosion with Alocrom treatment | **Rapid corrosion of untreated Aluminium**

FULLY CORROSION PROTECTED
Alocrom & dry powder epoxy coated for full corrosion protection.

FILTER CONNECTIONS
More port saizes are available to match both pipe size and system flow rate giving additional customer choice.

OPTIONS

Incident monitor (optional)
Used to indicate premature high differential pressure. Indicator can be retroffitted to existing housings without depressuring the system.

FIXING CLAMP
Joins two filters and is a wall mounting bracket in one.

Float drain

Electronic drain

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

CompAir ➔ TECHNICAL DATA ➔ COMPRESSED AIR FILTERS

FILTER TYPE	PORT SIZE	FLOW RATE [1] at 7 bar g/ 100 psi g		DIMENSIONS		WEIGHT	ELEMENT TYPE	REPLACEMENT ELEMENT KIT NO. FILTER GRADE			NUMBER OF ELEMENTS
		m^3/min	scfm	LENGTH mm/in	HEIGHT mm/in	kg/lb		B+E	C+F	D	
CF0006N 1/4" (+Grade)	1/4"	0.6	21	76/3.0	181.5/7.12	0.4/0.88	CE0006N + Grade	A51128374	A51128474	A51128574	1
CF0006N 3/8" (+Grade)	3/8"										
CF0006N 1/2" (+Grade)	1/2"										
CF0012N 3/8" (+Grade)	3/8"	1.2	42	97.5/3.8	235/9.3	1/2.2	CE0012N + Grade	A51128874	A51128974	A51129074	1
CF0012N 1/2" (+Grade)	1/2"										
CF0018N 1/2" (+Grade)	1/2"	1.8	64	97.5/3.8	235/9.3	1/2.2	CE0018N + Grade	A51129374	A51129474	A51129574	1
CF0018N 3/4" (+Grade)	3/4"										
CF0006N 1" (+Grade)	1"										
CF0036N 3/4" (+Grade)	3/4"	3.6	127	129/5.1	274.8/10.8	2.2/4.84	CE0036N + Grade	A51129874	A51129974	A51130074	1
CF0036N 1" (+Grade)	1"										
CF0066N 1" (+Grade)	1"	6.6	233	129/5.1	364.3/14.3	2.6/5.72	CE0066N + Grade	A51130374	A51130474	A51130574	1
CF0066N 1 1/4" (+Grade)	1 1/4"										
CF0066N 1 1/2" (+Grade)	1 1/2"										
CF0096N 1 1/4" (+Grade)	1 1/4"	9.6	339	170/6.7	432.5/17	4.5/9.9	CE0096N + Grade	A51130874	A51130974	A51131074	1
CF0096N 1 1/2" (+Grade)	1 1/2"										
CF0132N 1 1/2" (+Grade)	1 1/2"	13.2	466	170/6.7	524.5/20.6	5.25/11.55	CE0132N + Grade	A51131374	A51131474	A51131574	1
CF0132N 2" (+Grade)	2"										
CF0198N 2" (+Grade)	2"	19.8	699	170/6.7	524.5/20.6	5.25/11.55	CE0198N + Grade	A51131874	A51131974	A51132074	1
CF0258N 2 1/2" (+Grade)	2 1/2"	25.8	911	204.8/8.1	641.6/25.3	10/22	CE0258N + Grade	A51132374	A51132474	A51132574	1
CF0258N 3" (+Grade)	3"										
CF0372N 2 1/2" (+Grade)	2 1/2"	37.2	1314	204.8/8.1	832.1/32.8	12/26.4	CE0372N + Grade	A51132874	A51132974	A51133074	1
CF0372N 3" (+Grade)	3"										
CF0600N 4" (+Grade)	4"	60	2119	204.8/8.1	832.1/32.8	X	CE0600N + GradeF	A51133374	A51133474	A51133574	3
FLANGED HOUSINGS [2]											
CF0132N (+Grade)F	DN50	13.2	466	304/12	800/31.5	32.5/72	CE0132N + GradeF	A51133874	A51133974	A51134074	1
CF0258N (+Grade)F	DN80	25.8	911	370/4.6	980/38.6	60/132	CE0258N + GradeF	A51134374	A51134474	A51134574	1
CF0372N (+Grade)F	DN80	37.2	1314	370/16.6	1220/48	70/154	CE0372N + GradeF	A51134874	A51134974	A51135074	1
CF0600N (+Grade)F	DN100	60	2119	500/19.7	1325/52.2	150/330	CE0600N + GradeF	A51133374	A51133474	A51133574	3
CF0780N (+Grade)F	DN100	78	2755	500/19.7	1325/52.2	150/330					4
CF1170N (+Grade)F	DN150	117	4132	580/22.8	1424/56.1	200/440					6
CF1950N (+Grade)F	DN200	195	6886	750/29.5	1687/66.4	400/880					10
CF3120N (+Grade)F	DN250	312	11018	862/33.9	1821/71.7	540/1188					16
CF4680N (+Grade)F	DN300	468	16527	1000/39.4	1910/75.2	700/1540					24

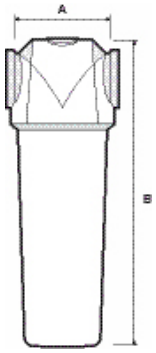
CF_N FILTER GRADE	INITIAL DIFFERENTIAL PRESSURE dry mbar/psi	INITIAL DIFFERENTIAL PRESSURE wet mbar/psi	FILTRATION	PRESSURE MAX. bar/psi	RECOMMENDED TEMPERATURE °C/°F
B [3]	70/1	0.6	wet	16/232	1.5-80/35-176
C [3]	100/1.5	200/3			
D [3]	70/1	N/A	dry	20/290	1.5-50/35-122
E [3]	70/1		dry	20/290	1.5-100/35-212
F [3]	100/1.5				

[1] For flowrates at other pressures, apply the correction factor shown:

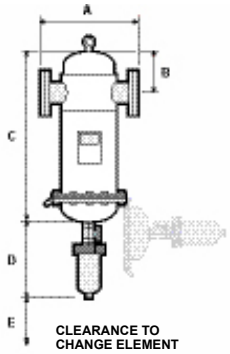
LINE PRESSURE	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
CORRECTION FACTOR		0.38	0.53	0.65	0.76	0.85	0.93	1.00	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51

[2] Fabricated housings flanged to BS 4504 PN16 and designed to CEN 286 Part 1 (1991). Other pressure vessel standards available.
[3] supplied with float drain / optional electronic drain
[4] supplied with manual drain

FILTER TYPE CF 0006N1/4 – 0600N4

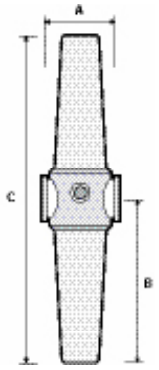


FILTER TYPE CF 0132 – 4680N



CLEARANCE TO CHANGE ELEMENT

FILTER TYPE CF 4N1/4 – 51N1/2CD



DATA ON DEMAND

CompAir

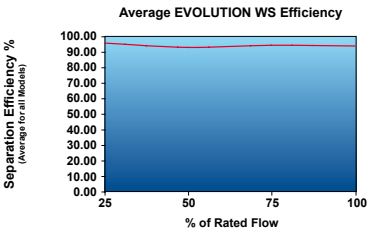
WATER SEPARATORS

HIGH EFFICIENCY BULK LIQUID REMOVAL GRADE WS

WS Water Separators have been designed for the efficient removal of bulk liquid contamination from compressed air.

Today, many products are offered for the removal of bulk liquid WS Water Separators have been designed from the ground up with the key design focus concentrated in critical areas such as air flow management, separation efficiency at all flow conditions, minimal pressure losses and independently validated performance.

SEPARATION EFFICIENCY



Tested with an Inlet challenge concentration of 33ml/m³hr and in accordance with ISO 85 Performance shown is an average for all models in range. Individual model performance available on request.

BENEFITS

- Tested in accordance with ISO 8573.9
- Performance independently verified by Lloyds Register
- High liquid removal efficiencies at all flow conditions
- Low pressure losses for low operational costs
- Multiple port sizes for a given flow rate provides increased flexibility during installation
- Suitable for variable flow compressors
- Works with all types of compressor and compressor condensate
- Low maintenance
- 10 Year Housing Guarantee

TYPICAL APPLICATIONS

- Bulk liquid removal at any point in a compressed air system
- Protection of refrigeration and adsorption dryer pre-filtration
- Liquid removal from compressor inter-coolers / after-coolers
- Liquid separation within refrigeration dryers

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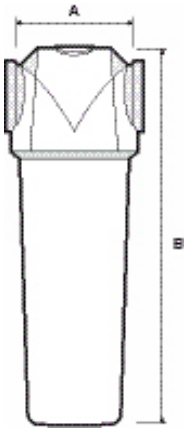
➔ TECHNICAL DATA ➔ WATER SEPARATORS

SEPARATOR [1]	PORT SIZE	FLOW RATES m³/min					DIMENSIONS		WEIGHT
		5 bar	7 bar	9 bar	10 bar	13 bar	LENGTH mm	HEIGHT mm	net kg
X006N 1/4"	G"	0.45	0.6	0.672	0.70	0.79	76	181.5	0.6
X006N 3/8"	K"								
X006N 1/2"	H"								
X024N 3/8"	K"	1.8	2.4	2.69	2.81	3.17	97.5	235	1.1
X024N 1/2"	H"								
X024N 3/4"	I"								
X024N 1"	1"								
X066N 3/4"	I"	4.95	6.6	7.39	7.72	8.71	129	275	2.2
X066N 1"	1"								
X066N 11/4"	1G"								
X066N 11/2"	1H"								
X210N 11/4"	1G"	15.75	21	23.52	24.57	27.72	170	432.5	5.1
X210N 11/2"	1H"								
X210N 2"	2"								
X480N 21/2"	2H"	36.00	48	53.76	56.16	63.36	205	505	10
X480N 3"	3"								
X480 F	DN80	40.8	48	54.2	57.1	65.3	370	1199	105
X600 F	DN100	51.0	60	67.8	71.4	81.6	450	1241	105
X1080 F	DN150	91.8	108	122.0	128.5	146.9	580	1424	200
X1800 F	DN200	153.0	180	203.4	214.2	244.8	750	1687	400
X2880 F	DN250	244.8	288	325.4	342.7	391.7	862	1821	540
X4320 F	DN300	367.2	432	488.2	514.1	587.5	1000	1910	700

[1] supplied with float drain / optional Zero loss drain
For pressures of 16 to 20 bar (g) an alternative drain must be used
CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications without prior notice.



INTELLIGENT AIR TECHNOLOGY

INTERNET:
www.compair.com
sales@compair.com

CE

TÜV CERT
DIN ISO 9001/
EN 29001
Certificate: 5168

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

Ref. No. 91005-055GB 05/06 B&N