

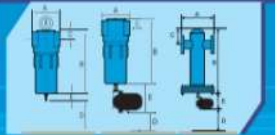
Filter Technical Information

Filter Model AFE	Pipe Conn.	16 Bar (232psi) Max		36 Bar (520psi) Max		Approx. weight (kg)	Dimensions					Replacement Element Model
		Capacity @ 7 bar g	Flow	Capacity @ 30 bar g	Flow		A	B	C	D	E	
G10	G 1/2	0.66	23	1.49	52	1.34	85	154	24	60	44	EA10
G15	G 1/2	0.95	34	2.16	76	1.45	85	185	24	75	44	EA15
G20	G 1/2	1.32	47	2.97	105	1.46	85	185	24	90	44	EA20
G30	G 3/4	1.98	70	4.46	157	1.72	85	255	24	90	44	EA30
G55	G1	3.30	116	7.43	262	4.10	130	285	43	135	44	EA55
G95	G1 1/2	5.70	201	12.83	453	4.52	130	385	43	235	44	EA95
G150	G1 1/2	9.00	318	20.25	715	5.01	130	485	43	335	44	EA150
G220	G1 1/2	13.32	470	29.97	1058	7.45	130	685	43	525	44	EA220
GE290	G2	17.46	616	43.65	1541	12.00	162	687	55	520	140	EA290
GE430	G2 1/2	26.16	923	-	-	14.97	162	921	55	770	140	EA430
		12 bar (174psi) Max										
GE625	G3	37.50	1324	-	-	30.95	252	908	79	610	140	EA625
GE775	G3	46.62	1645	-	-	32.99	252	1058	79	760	140	EA775
F0515	DN80	30.80	1087	-	-	65.77	440	1098	173	580	165	EA515
F0625	DN80	37.50	1324	-	-	100.63	449	1176	186	580	165	EA625
F0775	DN80	46.62	1645	-	-	101.07	449	1176	186	580	165	EA775
F1028	DN100	61.60	2174	-	-	128.09	500	1254	229	580	165	EA515 X 2
F1542	DN100	92.40	3261	-	-	129.41	500	1254	229	580	165	EA515 X 3
F2066	DN150	123.20	4348	-	-	182.74	640	1387	286	580	165	EA515 X 4
F3084	DN150	184.80	6522	-	-	252.39	790	1460	312	580	165	EA515 X 6
F4112	DN200	246.40	8696	-	-	282.03	790	1545	348	580	165	EA515 X 8
F5140	DN200	308.00	10870	-	-	388.68	840	1651	406	580	165	EA515 X 10
F6168	DN250	369.60	13044	-	-	562.33	940	1862	497	610	165	EA515 X 12
F8224	DN250	492.80	17392	-	-	567.63	940	1862	497	610	165	EA515 X 16
F10280	DN300	616.00	21740	-	-	577.92	940	1862	497	610	165	EA515 X 20

Capacity Correction Factor For Various Operating Pressure

Pressure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Factor	0,25	0,38	0,50	0,65	0,75	0,88	1,00	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

Filter Grade	Particle Removal Down To	Oil Removal Down To	Normal Initial Pressure Drop
P	3 micron	-	0.03 bar g
U	1 micron	0.1mg/m <sup>3</sup>	0.05 bar g
H	0.01 micron	0.01mg/m <sup>3</sup>	0.09 bar g
S	0.01 micron	0.001mg/m <sup>3</sup>	0.10 bar g
C	-	0.003mg/m <sup>3</sup>	0.10 bar g



ISO 8573-1:2010 is a standard for compressed air quality. It specifies the maximum number of particles per cubic metre and the maximum oil content in compressed air. The standard is divided into three classes: Class 1 (highest quality), Class 2, and Class 3 (lowest quality). Airfilter Engineering filters are designed to meet or exceed these standards.



# COMPRESSED AIR FILTERS

High efficiency filtration for clean & technically oil-free compressed air

G-SERIES / F-SERIES

# Engineering Solutions to Cleaner Air

## Why We Need to Purify Our Compressed Air

In just one cubic metre of air, there are millions of particles potentially harmful to your machines and equipments, these are primarily made up of dust, bacteria, viruses, smoke, fumes, hydrocarbons, water, oil and other contaminants derived from human and industrial activities. When this air is sucked into your compressor and compressed to 8 bar pressure, for instance, the concentration of particles will increase by eight times. This will make the air more troublesome by eightfold.

Troublesome in the sense that roughly 80% of these particles are so small that they will pass easily through your compressor's intake filters and find their way to your process line to cause either frequent expensive downtime of your pneumatic machine or adversely affect the quality of your end products.

This is why it makes economical sense to incorporate compressed air treatment into your compressed air system as the benefits would outweigh the cost, which would probably be only a small fraction of your total business investment.

With this in mind, Airfilter Engineering has ventured forth to produce a range of high quality filters, with essential parts being imported from renowned suppliers in Europe.

However, in the end, it is the highly efficient pleated filtration media produced by Airfilter Engineering that makes all the difference.

## AFE Filter Grades

Airfilter Engineering (AFE) has developed a comprehensive range of filter grades to cater to the requirements of different applications. All our filter media are of pleated design to ensure higher filtration area. Here at AFE, filters and elements can also be custommade to suit your needs.

**AFE Filter Grade P**  
 • For coarse pre-filtration  
 • Particle removal down to 3 micron

**AFE Filter Grade U**  
 • For general filtration  
 • Particle removal down to 1 micron  
 Oil content down to 0.1 mg/m<sup>3</sup> at 20°C

**AFE Filter Grade H**  
 • For high performance filtration  
 • Particle removal down to 0.01 micron  
 Oil content down to 0.01 mg/m<sup>3</sup> at 20°C

**AFE Filter Grade S**  
 • For high performance filtration  
 • Particle removal down to 0.01 micron  
 Oil content down to 0.001 mg/m<sup>3</sup> at 20°C in conjunction with filter grade H

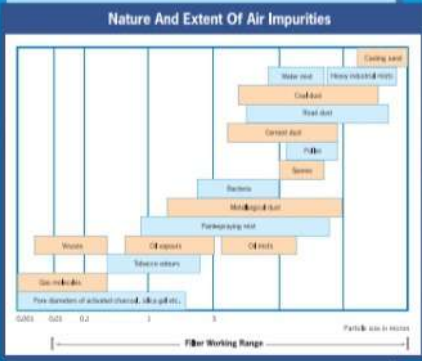
**AFE Filter Grade C**  
 • Activated carbon filter,  
 For odour removal. Applicable in oil lubricated compressors.  
 • For removal of oil content down to 0.003 mg/m<sup>3</sup> at 20°C in conjunction with filter grade H

## Accessories

- Internal Auto Drain IAD 518A CODE = 15A
- External Auto Drain EAD 416 CODE = E4
- Electronic Timer Drain ETD15 CODE = T2
- Electronic Timer Drain ETD18 CODE = T5
- Semi Auto Drain SAD 116 (P/N - 020) CODE = S1
- Semi Auto Drain SAD 216 (P/N - 020) CODE = S2
- Electronic Zero Loss Drain ESD100 CODE = Z1
- Differential Pressure Indicator DP 11 CODE = A
- Mounting Kits MB 1030 MB 5520
- Connecting Kits CK1 & CK2
- Differential Pressure Gauge DP 12 CODE = B

The basic benefits that we can offer with our pleated filter media are:

- Higher effective filtration area
- Higher dirt holding capacity
- Lower pressure drop
- Possibility of higher air flow



ISO 8573-1:2010 - TABLE OF CONTAMINANTS AND PURITY CLASSES

Purity Class	PARTICLES			HUMIDITY AND LIQUID WATER		OL
	Maximum number of particles per cubic metre as a function of particle size, d	Mass Concentration, mg/m <sup>3</sup>	Pressure Dewpoint, °C	Concentration Of Liquid Water, g/m <sup>3</sup>	Concentration Of Total Oil Liquid Aerosol & Vapour, mg/m <sup>3</sup>	
0	As specified by the equipment user or supplier and more stringent than Class 1					
1	≤ 20,000	≤ 80	≤ 10	-	≤ 70	≤ 0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ 40	≤ 0.1
3	Not specified	≤ 90,000	≤ 1,000	-	≤ 20	≤ 1
4	Not specified	Not specified	≤ 10,000	-	≤ +3	≤ 5
5	Not specified	Not specified	≤ 100,000	-	≤ +7	-
6	-	-	-	0 < C <sub>1</sub> ≤ 5	≤ +10	-
7	-	-	-	5 < C <sub>1</sub> ≤ 10	-	C <sub>2</sub> ≤ 0.5
8	-	-	-	-	-	0.5 < C <sub>2</sub> ≤ 5

The ISO 8573-1 is a standard of the ISO 8573 series of standards and it specifies the various purity classes of compressed air with respect to particles, water and oil. EXAMPLE OF DESIGNATION: ISO 8573-1:2010 Class 2 indicates purity Class 2 for particles.