

D-SERIES COMPRESSED AIR FILTER

FILTER HOUSINGS SPECIFICAT	TIONS
Description	Housings designed for application in non-aggressive compressed air systems.
Housing Material	Cast aluminium
Maximum Operating Pressure	16 bar (232 psi) for model D02-D26 ; 12 bar (174 psi) for model D30-D32
Protective Coating	Chromatisation
External Coating	Powder coated
Inlet and Outlet Port	BSP Threaded (NPT available upon request)
Element Securing Method	Push-To-Fit
STANDARD AND OPTIONAL AC	CESSORIES
Filter Element	Five filtration grades available (Refer to table below)
Condensate Drain	Standard mechanical float auto-drains for 16 bar filters.
Differential Pressure Measurement	Differential pressure gauge
FILTRATION GRADE	
Grade-P Particulate Filter	Particle removal down to 3 micron
Grade U Coalescing Filter	Particle removal down to 1.0 micron. Oil removal down to 0.1 mg/m3
Grade H Coalescing Filter	Particle removal down to 0.01 micron. Oil removal down to 0.01 mg/m3
Grade S Coalescing Filter	Particle removal down to 0.01 micron. Oil removal down to 0.001 mg/m3
Grade C Act. Carbon Filter	Oil removal down to 0.003 mg/m3
STANDARD FACTORY TEST	
For Housing	Hydrostatic Test with water pressure at 1.5 times max design pressure

or Housing	Hydrostatic Test with water pressure at 1.5 times max design pressure
or Housing	Leakage Test with air pressure at about 7 bar (101.5 psi)
or Element	Integrity Test with pressurized particles of 0.2-20 micron

FILTER MODEL (16 BAR / 232 PSI MAX)

			Can	Can	Approx.	Approx. Approx. Dimensions, mm			, mm		
Model	Туре	Conn.	m³/min	cfm	Weight (kg)	А	В	С	D	Element Type	
D02	Threaded	1/4"	0.83	29.41	0.77	104	193.5	96.4	55	EDA02	
D04	Threaded	3/8 "	1.25	44.12	0.79	104	216.5	96.4	65	EDA04	
D06	Threaded	1/2 "	1.83	64.71	0.82	104	216.5	96.4	75	EDA06	
D08	Threaded	3/4 "	2.83	100.00	0.87	104	266.5	96.4	125	EDA08	
D10	Threaded	1 "	5.00	176.47	1.87	148	276.8	137.7	110	EDA10	
D12	Threaded	1 1/2 "	8.33	294.12	2.18	148	346.8	137.7	180	EDA12	
D14	Threaded	1 1/2 "	10.83	382.35	2.64	148	486.8	137.7	270	EDA14	
D16	Threaded	1 1/2 "	13.33	470.59	2.70	148	486.8	137.7	320	EDA16	
D20	Threaded	2 "	16.67	588.24	7.17	197	603.6	190.4	330	EDA20	
D22	Threaded	2 "	21.67	764.71	8.22	197	703.6	190.4	430	EDA22	
D24	Threaded	2 1/2 "	29.17	1029.41	9.24	197	803.6	190.4	530	EDA24	
D26	Threaded	2 1/2 "	37.17	1311.76	10.26	197	903.6	190.4	630	EDA26	
D30	Threaded	3 "	43.33	1529.41	13.70	255	752.2	207.8	450	EDA30	
D32	Threaded	3 "	50.00	1764.71	15.03	255	852.2	20.7.8	550	EDA32	



Note: Capacities at FAD, 7 bar g. Please contact us for details on higher pressure systems.



Airfilter Engineering reserves the right to change specifications without prior notice (REV V3/10/15.)







COMPRESSED AIR FILTERS

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

D-SERIES

Engineering Solutions to Cleaner Air

Filtration Solutions for Compressed Air Applications

Compressed air, next to electricity, is the most widely used energy source in the industry section.

Energy cost continue to rise global with a negative effect on production cost. Sustainable energy saving initiatives in plant operations have to be implemented in order to cover back some of the negative cost effects.

Air treatment manufacturers like AFE are challenged to design products which are cost effective without losing performance specified in international standard's. Hence, the following aspects have to be considered in high quality compressed air purification:

- Economic filtration
- Validated performance data according to ISO 12500-1 (oil aerosols), 12500-2 (oil vapours) and 12500-3 (particles)
- Reliable achievement of the compressed air quality to suit the application according to ISO 8573-1

The AFE D-Series new generation Filters are designed to fulfill all these needs, given the customer the ideal solution of energy efficiency while complying to these standards.



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 custom-made 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/m³ at 20°C

AFE Filter Grade H

- For high performance filtration
- Particle removal down to 0.01 micron
- Oil content down to 0.0 1 mg/m³ at 20 $^{\circ}$ C

AFE Filter Grade S

 For high performance filtration Particle removal down to 0.01 micron. Oil content down to 0.001 mg/m³ 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/m³ at 20 °C

Accessories















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





Differential Pressure Gauge

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he ISO 8573-1 is a key element of th EXAMPLE OF DESIGNATION: ISO 8573-1:2010 [1:2:1] indicate purity Class 2 for humidity and liquid wate ass 1 for oi



573-1 : 2010 - TABLE OF CONTAMINANTS AND PURITY CLASSES								
PART	ICLES		HUMIDITY W/	AND LIQUID Ater	OIL			
er of particles pe ction of particle	er cubic metre size, d	Mass Concentration C	Pressure Dewpoint	Concentration Of Liquid Water, C	Concentration Of Total Oil (Liquid, Aerosol & Vapour)			
µm < d ≤ 1.0 µm	1.0 µm < d ≤ 5.0 µm	mg/m³	°C	g/m³	mg/m³			
specified by the equipment user or supplier and more stringent than Class 1								
≤ 400	≤ 10	-	≤ -70	-	≤ 0.01			
≤ 6 000	≤ 100	-	≤ -40	-	≤ 0.1			
≤ 90 000	≤ 1 000	-	≤ -20	-	≤ 1			
lot specified	≤ 10 000	-	≤ +3	-	≤ 5			
lot specified	≤ 100 000	-	≤ +7	-	-			
-	-	$0 < C_p \le 5$	≤ +10	-	-			
-	-	$5 < C_p \le 10$	-	C _w ≤ 0.5	-			
-	-	-	-	$0.5 < C_w \le 5$	-			