

The ultimate filtration & drying technology

Compressed Air Duplex Filters

Models D3028XAC to D3109XAC

Flow Rates 25 SCFM (42 Nm³/hr) to 175 SCFM (297 Nm³/hr)

The New Alpha Duplex range delivers an economical, space-saving filtration solution. With exceptionally improved performance, the intelligent design combines a two-stage filtration system in a single unit, ensuring twice the filtration capability.

Available in a range of 7 models with connection sizes ranging from 1/4" - 1", the New Alpha Duplex Filters space saving modular design utilises deep pleated media technology to deliver market leading performance.

The 0.01 micron (DXA grade) element delivers exceptional results in oil aerosol removal and particle retention - with a significantly reduced differential pressure of <125 mbar. The Activated Carbon (DAC) element utilises a finely divided activated carbon media to remove odours and tastes.



NEW Filtration Technology
New Alpha deep pleated media
technology delivers a step change
in performance



Two-Stage Filtration

DXA and DAC elements for double the filtration performance



Modular Construction

Low cost connecting kits enable easy close coupling assembly

- Flow-Optimised Design Advanced filter head designed for optimised flow performance
- Flexible Installation Filter housings can be multi-banked together using connecting kits enabling simple close coupling assembly
- Market Leading Performance Pleated oleophobic borosilicate media delivers significant energy cost savings through lower differential pressure
- Simplified Serviceability Profiled bowl design and unique push fit elements ensure quick and reliable maintenance
- Product Safety in Mind Guaranteed safe housing closure with rotational safety stop
- Corrosion Protection Internal and external electrophoretic paint finish followed by a tough exterior polyester powder coating



Market leading differential pressure of <125 mbar across DXA grade





CAG Purification 3770B Laird Road Unit 2 Mississauga, ON. L5L 0A7

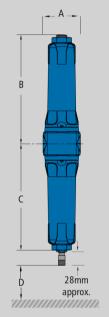
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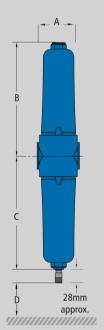
Technical Specification

Filter model	Pipe size inches	Inlet flow rate*		Dimensions mm				Weight	Element model	Element model Activated	No. of
		Nm³/hr	SCFM	Α	В	С	D	Kg	Coalescing	Carbon	Elements
D3028XAC	1/4	42	25	70	199	204	70	1	E30408 DXA	/ E30408DAC	1/1
D3038XAC	³ / ₈	54	32	70	199	204	70	1	E30408 DXA	/ E30408DAC	1/1
D3058XAC	1/2	85	50	70	199	204	70	1.1	E30412 DXA	/ E30412DAC	1/1
D3059XAC	1/2	119	70	100	236	240	80	2.3	E30613 DXA	/ E30613DAC	1/1
D3078XAC	3/4	144	85	100	236	240	80	2.3	E30613 DXA	/ E30613DAC	1/1
D3079XAC	3/4	212	125	100	356	360	80	3.1	E30625 DXA	/ E30625DAC	1/1
D3109XAC	1	297	175	100	356	360	80	3.2	E30625 DXA	/ E30625DAC	1/1

^{*} Rated flow at 7 barg, reference conditions 1 bar (a) 20°C



D3028XAC - D3058XAC



D3059XAC - D3109XAC

Grade	D	XA	DAC			
Particle removal	0.01 i	micron	0.01 micron			
Maximum particle size class**		1	1			
Maximum oil content**		1	1			
Maximum oil carryover at 20°C (68°F)	0.01	mg/m³	0.003	mg/m³		
Pressure loss: clean and dry	85 mbar	1.2 psi	75 mbar	1.1 psi		
Pressure loss: saturated	125 mbar	1.8 psi	N/A	N/A		
Pressure loss: element change	12 months	8000 hours	at least every 6 months			
Maximum temperature	50°C	122°F	50°C ***	122°F ***		
Maximum working pressure	16 barg	232 psig	16 barg	232 psig		
Element end cap colour	ВІ	ue	Black			

Pressure correction factors		For maximum flow rate, multiply model flow rate by the correction factor corresponding to the minimum operating pressure									
Operating pressure barg (psig)	4 (58)	5 (72)	6 (87)	7 (100)	8 (115)	10 (145)	12 (174)	14 (203)	16 (232)		
7 barg - correction factor	0.76	0.84	0.92	1	1.07	1.19	1.31	1.41	1.51		

Technical notes

- Duplex Filters provide a 0.01 micron (DXA) grade element in the lower section for oil removal, while the Activated Carbon (DAC) grade element in the upper section is for odour removal.
- 2. Direction of air flow is inside to out through the 0.01 micron (DXA) grade and outside to in through Activated Carbon (DAC) grade filter element.
- Duplex Filters are fitted with ADVS16 normally open float operated automatic drain valves as standard. Normally closed float operated automatic drain valves ADVS16C are available for low flow applications - see price guide.
- Activated Carbon Filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide (CO) and carbon dioxide (CO₂).
- 5. New Alpha Filters are manufactured from cast aluminium alloy and are PED 2014/68/EU compliant for group 2 gases.
- Threaded connections are Rp (BSP Parallel) to ISO 7-1 or NPT to ANSI/ASME B1.20.1 if supplied within North America. Rc (BSP Taper) to ISO 7-1 also available.
- 7. For NPT threads, add the suffix N, e.g., D3208NXAC, and for Rc threads add the suffix C, e.g. D3208CXAC.
- 8. Filters are suitable for use with mineral and synthetic oils plus oil-free compressed air applications.
- 9. Mounting brackets are available for all models see price guide.











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