

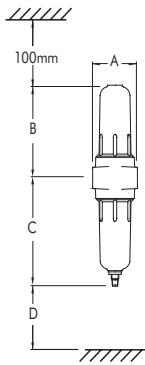
## COMPRESSED AIR DUPLEX FILTERS



The Duplex range of filters combine in a single unit a 2 stage filtration system. The XAC model is typically installed in food, pharmaceutical, instrumentation and breathing air environments. The XAC combines an XA, 0.01 micron coalescing filter element which reduces oil concentrations to 0.01 mg/m<sup>3</sup> (0.01 ppm) and an AC, secondary activated carbon filter element which removes

odours and tastes with further oil removal down to 0.003 mg/m<sup>3</sup> (0.003 ppm). The range includes 3 models with connections of 1/4", 3/8" and 1/2" with flow rate capacities of 15, 30 and 45 scfm (25, 50, 75 Nm<sup>3</sup>/h). The filtration media combines high dirt holding capability with high flow capacity. The AC element uses a special grade of finely divided activated carbon media which has a greater attraction to higher molecular weight hydrocarbon vapours and gases.

**W** WALKER  
FILTRATION



Models D20 XAC to D45 XAC

FILTER MODEL	PIPE SIZE	FLOW RATE		ELEMENT MODEL	NUMBER OF ELEMENTS	DIMENSIONS mm				WEIGHT		DIMENSIONS inch				FILTER MODEL
		Nm <sup>3</sup> /h	SCFM			A	B	C	D	Kg	lb	A	B	C	D	
D20 XAC	1/4	25	15	E361XA/E381AC	1/1	72	150	173	75	0.85	1.9	3	6	7	3	D20 XAC
D30 XAC	3/8	50	30	E371XA/E381AC	1/1	72	150	173	75	0.85	1.9	3	6	7	3	D30 XAC
D45 XAC	1/2	75	45	E51XA/E02AC	1/1	90	200	225	100	1.25	2.75	3 1/2	8	9	4	D45 XAC

Compressed air two stage filtration, top stage grade AC (should be replaced every six months), bottom stage grade XA.

SPECIFICATION	GRADE XA		GRADE AC	
	Maximum particle size class, air quality to ISO 8573-1:2001(E)	1		
Maximum oil content class, air quality to ISO 8573-1:2001(E)	1			
Particle removal	0.01 micron			
Maximum oil carryover at 20°C (68°F)	0.01mg/m <sup>3</sup>	0.01ppm	0.003 mg/m <sup>3</sup>	0.003 ppm
Maximum temperature	120°C	248°F	25°C	77°F
Pressure loss - clean & dry	150 mbar	2.2 psi	75 mbar	1.1 psi
Pressure loss - oil saturated	300 mbar	4.4 psi	see notes	
Pressure loss - change element	400 mbar	6 psi	see notes	
Maximum working pressure	16 barg	232 psig	16 barg	232 psig
Element end cap colour code	blue (XA bottom element)		black (activated carbon top element)	

\* ISO 8573-1:2001(E) now includes liquid, aerosol and vapour.

## TECHNICAL NOTES

- Duplex filters are manufactured from aluminium.
- Threaded connections are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
- Filter element end caps are colour coded. Direction of air flow, inside to out, through XA grade and outside to in through AC grade filter element.
- Activated carbon filters must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide. Models D20 to D45 XAC, element XA in the lower section is for oil removal while elements AC in the upper section is for odour removal.
- Grade AC elements must be changed periodically to suit application but at least every 6 months.
- Activated carbon filters and towers for larger applications are available to order. Please refer to activated carbon filters and tower leaflets.
- Float operated automatic drain valves, model AD16, with manual override facility are fitted to all models.
- Mounting brackets are available for all models, see accessory product leaflet.
- All filter bodies feature the Walker E-Coat™ and are coated with blue polyester powder paint finish to eliminate corrosion.
- Duplex filters and filter elements are suitable for use with mineral and synthetic oils plus oil free compressed air applications.
- For larger flow application please refer to the threaded or flanged filter leaflet.
- Duplex filters and filter elements are silicone free.

## CORRECTION FACTOR

For maximum flow rate, multiply model flow rate shown in the above table by the correction factor corresponding to the working pressure.

Operating pressure	barg	0.3	0.6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi	4	9	14.5	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
Correction factor		0.21	0.29	0.38	0.53	0.65	0.76	0.84	0.92	1	1.07	1.13	1.19	1.25	1.31	1.36	1.41	1.46	1.51



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