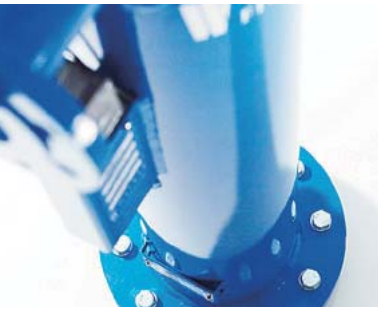
The ultimate filtration & drying technology

SR Gas Purification Solutions

Ammonia & Refrigerant Filters



A comprehensive range of ammonia and refrigerant filters for specialist applications where the quality of gas needs to be maintained to the highest levels.

8 stainless steel filter housings with connection sizes of ¼" to 2" with flow rates up to 675 SCFM (1150 Nm³/h) plus a range of 8 higher capacity carbon steel flanged filter products with flow rates from 1270 to 15000 SCFM (2160 to 25500 Nm³/h).

The threaded range is precision engineered in high grade stainless steel whilst the flanged filters are constructed from robust carbon steel with an anti corrosion Walker E-Coat™ finish.

Unique media delivers exceptional filtration

Our custom engineered filter media delivers exceptional filtration with minimum pressure drop. Threaded filters incorporate the unique Walker designed 'push fit' filter elements which reduces maintenance time and allows the filter to be located within the most confined places. Our flanged range incorporate a tie-rodded element for ultimate security.

Tested and validated to international standards

Applications include

- Chemical
- Food & Beverage
- Manufacturing

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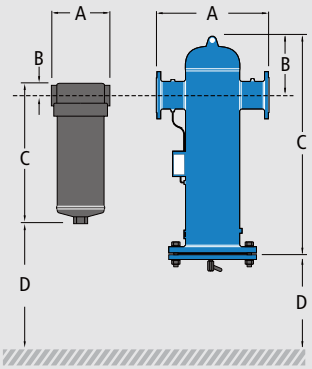
WALKER FILTRATION

Technical Specification

filter model	pipe size	flow rate Nm³/h	flow rate SCFM	dimensions (mm) A	B	C	D	weight Kg	element model
C25 (grade)	¼	35	20	85	18	170	75	1.7	E50 (grade)
C37 (grade)	⅜	52	30	85	18	205	100	2.0	E51 (grade)
C50 (grade)	½	108	63	85	18	255	100	2.2	E52 (grade)
C75 (grade)	¾	216	127	110	27	270	150	4.0	E715 (grade)
C101 (grade)	1	300	176	110	27	420	300	5.0	E730 (grade)
C150 (grade)	1½	725	427	150	45	525	300	15	E830 (grade)
C200 (grade)	2	800	470	150	45	525	300	15	E830 (grade)
C201 (grade)	2	1150	675	150	45	825	500	21	E86 (grade)
A371 (grade)	DN80	2160	1270	450	265	1205	700	58	E139 (grade)
A473 (grade)	DN100	3100	1824	520	285	1245	700	74	E88 (grade)
A474 (grade)	DN100	4250	2500	520	285	1245	700	74	E88 (grade)
A676 (grade)	DN150	6500	3824	680	400	1400	700	165	E88 (grade)
A678 (grade)	DN150	8720	5130	780	400	1430	700	208	E88 (grade)
A8710 (grade)	DN200	11000	6470	780	400	1460	700	260	E88 (grade)
A10716 (grade)	DN250	17000	10000	900	550	1570	700	450	E88 (grade)
A12724 (grade)	DN300	25500	15000	900	600	1620	700	1200	E88 (grade)



C25 (grade) to C201 (grade) | A371 (grade) to A12724 (grade)

	Grade X1 NH_3		Grade XA NH_3	
Particle removal	1 micron		0.01 micron	
Maximum oil carryover at 20°C (68°F)	0.1 mg/m³	0.1 ppm	0.01 mg/m³	0.01 ppm
Maximum temperature	120°C	248°F	120°C	248°F
Pressure loss - clean & dry	75 mbar	1.1 psi	100 mbar	1.5 psi
Pressure loss - oil saturated	150 mbar	2.2 psi	300 mbar	4.4 psi
Pressure loss - change element	400 mbar	6.0 psi	400 mbar	6.0 psi
Maximum working pressure	16 barg	232 psig	16 barg	232 psig
Maximum working vacuum	full vacuum		full vacuum	
Element end cap material	stainless steel		stainless steel	

pressure correction factors

for maximum flow rate, multiply model flow rate by the correction factor corresponding to the 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	1.00	1.07	1.19	1.31	1.41	1.51

technical notes

1	Threaded ammonia and refrigerant filters are manufactured from stainless steel.
2	Direction of air flow is inside to out through the filter element.
3	Models C25 to C201 are supplied with a drain plug.
4	½" manual drains are fitted to A371 (grade) NH_3 to A8710 (grade) NH_3, ¾" manual drains are fitted to A10716 (grade) NH_3 and A12724 (grade) NH_3 as standard. An additional ½" side entry port is included on all models.
5	Models A371 (grade) NH_3 to A12724 (grade) NH_3 include pressure tappings.
6	All ammonia and refrigerant filters are PED compliant for Group 1 Gases.
8	Threaded connections are Rp (BSP parallel) to ISO 7/1 or NPT to ANSI B2.1 if supplied within North America. Flanged connections are complete with mating flanges to BS4504, PN16.
9	For NPT connections, add the suffix N e.g. C200SSXANH_3N
10	Flanged vessels are designed and manufactured in accordance with BS EN286 and meet the Simple Pressure Vessels Directive.
11	Cross port dimensions on flanged vessels are subject to a manufacturing tolerance of +/- 3mm and a squareness tolerance of 1 degree.
12	Filter elements should be changed every 12 months / 8000 hours (whichever comes first).
13	Filters are suitable for use with mineral and synthetic oils, plus oil-free compressed air applications.

WALKER FILTRATION

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