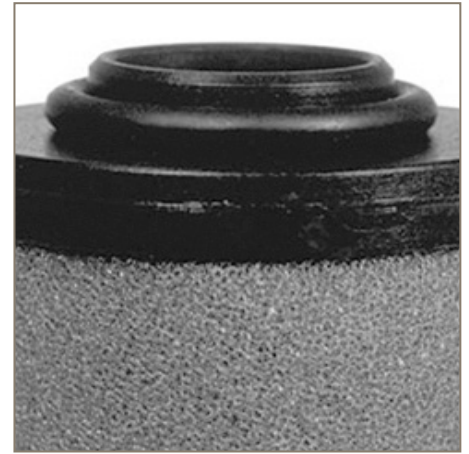


Hyperfilter Die-cast Aluminium Compressed Air Filters

Grades Q / P / S D Coalescing & Dry Particulate Filters

Grade C Adsorption Filter

(1/4"~ 3")



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Filtration Performance

Filtration Grade	Filter Type	Particle Reduction (inc water & oil aerosols)	Max Remaining Oil Content at 21°C (70°F)	Filtration Efficiency	Initial Dry Differential Pressure	Initial Saturated Differential Pressure	Change Element Every	Precede with Filtration Grade
Q	Coalescing & Dry Particulate	Down to 3 micron	N/A	N/A	<70 mbar (<1 psi)	<140 mbar (<2 psi)	12 months	WS (for bulk liquid)
P	Coalescing & Dry Particulate	Down to 1 micron	0.6 mg/m ³ 0.5 ppm(w)	99.9%	<70 mbar (<1 psi)	<140 mbar (<2 psi)	12 months	Q
S	Coalescing & Dry Particulate	Down to 0.01 micron	0.01 mg/m ³ 0.01 ppm(w)	99.9999%	<100 mbar (<1.45 psi)	<200 mbar (<3 psi)	12 months	P
D	Dry Particulate downstream of adsorption dryer	Down to 3 micron	N/A	99.9%	<70 mbar (<1 psi)	N/A	12 months	-
C	Adsorption	N/A	0.003 mg/m ³ 0.003 ppm(w) of Oil Vapour	N/A	<350 mbar (<5 psi)	N/A	When oil vapour is detected	P+S

Technical Data

Filtration Grade	Filter Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature	
		bar g	psi g	bar g	psi g	°C	°F	°C	°F
Q/P/S/D	HFN005 ~ HFN370	1	15	16	232	2	35	65	149
C	HFN005 ~ HFN370	1	15	16	232	2	35	50	122

Flow Rates

Model	Pipe Size BSP	L/S	m ³ /min	m ³ /hr	cfm	Replacement Element	No.
HFN005	Grade WD ¼"	8.8	0.5	31.8	18	Grade 005-ELZ	1
HFN010	Grade WD ⅜"	16.7	1.0	60	35	Grade 010-ELZ	1
HFN018	Grade WD ½"	30.0	1.8	108	63	Grade 022-ELZ	1
HFN022	Grade WD ¾"	36.7	2.2	132	77	Grade 022-ELZ	1
HFN030	Grade WD ¾"	50.0	3.0	180	106	Grade 030-ELZ	1
HFN045	Grade WD 1"	75.0	4.5	270	159	Grade 045-ELZ	1
HFN062	Grade WD 1 ¼"	103.3	6.2	372	219	Grade 072-ELZ	1
HFN072	Grade WD 1 ½"	120.0	7.2	432	254	Grade 072-ELZ	1
HFN122	Grade WD 1 ½"	203.3	12.2	732	430	Grade 135-ELZ	1
HFN135	Grade WD 2"	225.0	13.5	810	477	Grade 135-ELZ	1
HFN175	Grade WD 2"	291.7	17.5	1050	618	Grade 175-ELZ	1
HFN205	Grade WD 2"	341.7	20.5	1230	724	Grade 205-ELZ	1
HFN300	Grade WD 2 ½"	500.0	30.0	1800	1059	Grade 300-ELZ	1
HFN370	Grade WD 3"	611.1	37.0	2220	1295.0	Grade 370-ELZ	1

Filter coding example

Grade	Part Number
Q	HFN018QWD
P	HFN018PWD
S	HFN018SWD
D	HFN018DWD
C	HFN018CWD

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure. For flows at other pressures, apply the correction factors shown below.

Product Selection & Correction Factors

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating (inlet) pressure at the point of installation.

1. Obtain the minimum operating (inlet) pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum inlet pressure from the CFMIP table (always round down e.g. for 5.3 bar, use 5 bar correction factor)
3. Calculate the minimum filtration capacity. Minimum Filtration Capacity = Compressed Air Flow Rate x CFMIP
4. Using the minimum filtration capacity, select a filter model from the flow rate tables above (filter selected must have a flow rate equal to or greater than the minimum filtration capacity).

CFMIP - Correction Factor Minimum Inlet Pressure

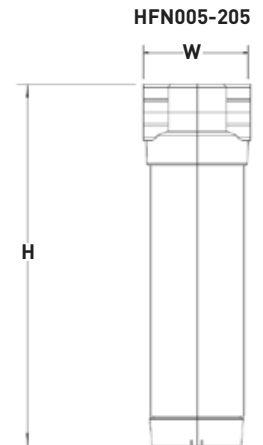
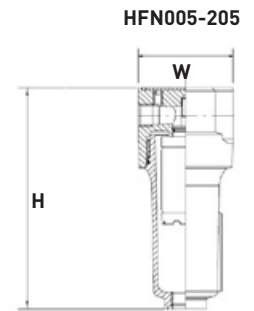
Minimum Inlet Pressure	bar g	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	psi g	15	29	44	58	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		2.65	1.87	1.53	1.32	1.18	1.08	1.00	0.94	0.88	0.84	0.80	0.76	0.73	0.71	0.68	0.66

Filtration Tested In Accordance With

Filtration Grade	Q	P	S	D	C
Filter Type	Coalescing & Dry Particulate	Coalescing & Dry Particulate	Coalescing & Dry Particulate	Dry Particulate	Adsorption
Test Methods Used	ISO8573-2	ISO8573-2	ISO8573-2	N/A	N/A
ISO12500-1 Inlet Challenge Concentration	N/A Not Tested to ISO 12500-1	N/A Not Tested to ISO 12500-1	N/A Not Tested to ISO 12500-1	N/A	N/A

Weight & Dimensions

Model	Height (H)		Width (W)		Weight	
	mm	ins	mm	ins	kg	lbs
HFN005	168	6.6	69	2.7	0.6	1.3
HFN010	267	10.5	89	3.5	1.2	2.6
HFN018	267	10.5	89	3.5	1.2	2.6
HFN022	267	10.5	89	3.5	1.2	2.6
HFN030	367	14.4	109	4.3	2.4	5.3
HFN045	367	14.4	109	4.3	2.4	5.3
HFN062	514	20.2	109	4.3	3.0	6.6
HFN072	514	20.2	109	4.3	3.0	6.6
HFN122	550	21.6	150	5.9	5.2	11.5
HFN135	550	21.6	150	5.9	5.2	11.5
HFN175	928	36.5	150	5.9	6.5	14.3
HFN205	928	36.5	150	5.9	6.6	14.5
HFN300	733	28.8	188	7.4	13.5	29.8
HFN370	933	36.7	188	7.4	16.0	35.3



Quality Assurance / IP Rating / Pressure Vessel Approvals

Development / Manufacture	ISO 9001 / ISO 14001
Ingress Protection Rating	Not Applicable
EU	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
USA	Approval to ASME VIII Div. 1 not required
AUS	Approval to AS1210 not required
GUS	TR (formerly GOST-R)
For use with Compressed Air Only	

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