Filters

NGF SERIES

BENEFITS AND FEATURES

- The unique patented Venturi-Wave™ design of the filter element caps enables turbulence-free transition for the compressed air
- Pleated filter element with 96% cavity space reduces Δp up to 50% compared to conventional filter elements
- Coloured end caps on the filter elements clearly define filtration grades
- Easy installation of Inlet and outlet by flanges or screw coupling
- All materials are silicon-free/paint-compatible

Filtration Degree & Efficiency	SF	PF	HF	UF	CF
Max. inlet load	25,000 ppm w/w	2,000 ppm w/w	1,000 ppm w/w	100 ppm w/w	0.01 ppm w/w
Solid particles	≤3.0 µm	≤1.0 µm	≤0.01 µm	≤0.01 µm	≤0.01 µm
Liquid	≤3.0 µm	≤1.0 µm	≤0.01 µm	≤0.01 µm	–
Oil	≤5 mg/m³	≤0.5 mg/m³	≤0.01 mg/m³	≤0.0008 mg/m³	–
Oil vapour	–	–	–	–	≤0.003 mg/m³
Quality class particles	3	2	1	1	1
Quality class oil	5	2	1	1	1
Particle retention efficiency	–	99.999 %	99.999 %	99.999 %	99.999 %
Oil retention efficiency	50 %	80 %	99.99 %	99.99 %	–

The Hankison® particle and oil filters and carbon adsorbers comply with the ISO 8573-1:2001 requirements class 1 till 5 and offer an optimal and economical protection for compressed air applications.

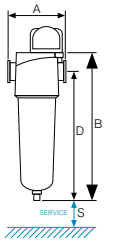
Accessories		SF			PF			HF			UF			CF		
		02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17	02-07	08-12	13-17
Differential pressure monitoring	Differential pressure indicator	●	–		●	–		●	–		●	–		–	–	–
	Differential pressure gauge	○	●	●	○	●	●	○	●	●	○	●	●	–	–	–
	Differential pressure gauge with potential free alarm contact	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–
	Filter monitor	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–
Drains	Float drain	●	●	–	●	●	–	●	●	–	●	●	–	–	–	–
	Timer drain	○	○	–	○	○	–	○	○	–	○	○	–	–	–	–
	Electronic Level Controlled drain	○	○	●	○	○	●	○	○	●	○	○	●	–	–	–
	Manual drain	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●

General Data	
Medium	Compressed air
Housing	F02 – 17-B: Die-Cast Aluminium
Colour	RAL 5015 (blue)
Location	Indoors
Vessel certifications	CE
IP rating	IP 65

● standard ○ optional – not available

Hankison®

Model	Flow Rate*	Connec-tion	Dimensions						Weight	Filter Elements					Count
			A	B	C	D	E	S		SF	PF	HF	UF	CF	
	m³/h		mm						kg						
F02-B-SF/PF/HF/UF/CF	34	1/4"	114	206	–	171	–	102	0.8	SF-02	PF-02	HF-02	UF-02	CF-02	1
F03-B-SF/PF/HF/UF/CF	59	3/8"								SF-03	PF-03	HF-03	UF-03	CF-03	
F04-B-SF/PF/HF/UF/CF	85	1/2"		252		216			0.9	SF-04	PF-04	HF-04	UF-04	CF-04	
F06-B-SF/PF/HF/UF/CF	127	3/4"	132	262		220		127	1.4	SF-06	PF-06	HF-06	UF-06	CF-06	
F07-B-SF/PF/HF/UF/CF	175									SF-07	PF-07	HF-07	UF-07	CF-07	
F08-B-SF/PF/HF/UF/CF	267	1"		326		284			1.6	SF-08	PF-08	HF-08	UF-08	CF-08	
F10-B-SF/PF/HF/UF/CF	437	1 1/2"	200	337		276		178	3.8	SF-10	PF-10	HF-10	UF-10	CF-10	
F11-B-SF/PF/HF/UF/CF	612			434		373			4.5	SF-11	PF-11	HF-11	UF-11	CF-11	
F12-B-SF/PF/HF/UF/CF	681	2"		566		505			5.3	SF-12	PF-12	HF-12	UF-12	CF-12	
F13-B-SF/PF/HF/UF/CF	993	2 1/2"	231					204		SF-13	PF-13	HF-13	UF-13	CF-13	
F14-B-SF/PF/HF/UF/CF	1,317			634		550			8.4	SF-14	PF-14	HF-14	UF-14	CF-14	
F15-B-SF/PF/HF/UF/CF	1,750									SF-15	PF-15	HF-15	UF-15	CF-15	
F16-B-SF/PF/HF/UF/CF	2,039	3"		817		733			12.6	SF-16	PF-16	HF-16	UF-16	CF-16	
F17-B-SF/PF/HF/UF/CF	2,549			1,085		1,001			28.7	SF-17	PF-17	HF-17	UF-17	CF-17	



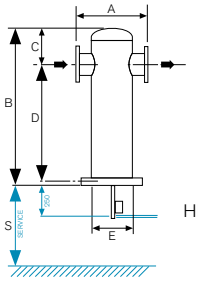
F02 – F17

Flange Vessel Series	Flow Rate*	Connec-tion	Dimensions						Weight	Filter Elements					Count
			A	B	C	D	E	S		9	7	5	3	1	
	m³/h		mm						kg						
HF 1/3/5/6/7/9/11-52	1,110	DN 80	350	1,037	134	903	168	610	28.4	E9-PV	E7-PV	E5-PV	E3-PV	E1-PV	1
HF 1/3/5/6/7/9/11-54	1,700		400	1,045	137	908	219		37.0	E9-54	E7-54	E5-54	E3-54	E1-54	2
HF 1/3/5/6/7/9/11-56	2,125								37.4						2
HF 1/3/5/6/7/9/11-60	3,158	DN 100	440	1,085	168	917	273		48.4						3
HF 1/3/5/6/7/9/11-64	4,250		535	1,105	185	920	324		64.4						4
HF 1/3/5/6/7/9/11-68	5,310								65.4	E9-PV	E7-PV	E5-PV	E3-PV	E1-PV	5
HF 1/3/5/6/7/9/11-72	8,490	DN 150	600	1,215	255	960	400		118.4						8
HF 1/3/5/6/7/9/11-76	11,670		720	1,245	278	967	500		171.4						11
HF 1/3/5/6/7/9/11-80	14,850		750	1,265	294	971	550		224.4						14

* The capacity of the dryer is based on the intake volume of the compressor at 20°C, 1 bar (a).

Nominal dryer capacity according to ISO 7183: Operating pressure 7 bar (g). Pressure dew point +3°C. Operating temperature 35°C.

Technical data and specification are subject to change without prior notice



HF ...-52 – HF ...-80

Design Data*	Min.	Nom.	Max.
Operating pressure	2 bar (g)	7 bar (g)	16 bar (g)
Ambient temperature	+2 °C	+20 °C	+55 °C
Operating temperature	+2 °C	+20 °C	+66 °C

* The following correction factors need to be used to select the correct unit for other operating conditions.

Correction factors for differing inlet pressures in bar (g)															
bar (g)	2	3	4	5	6	**7**	8	9	10	11	12	13	14	15	16
9 -750	0.40	0.50	0.62	0.75	0.87	**1.00**	1.12	1.25	1.37	1.50	1.62	1.75	1.87	2.00	2.12
810 - 7290	–	0.71	0.79	0.87	0.93	**1.00**	1.06	1.12	1.17	1.22	1.27	1.31	1.37	1.41	1.46

Filter elements	SF	PF	HF	UF	CF
Starting pressure loss (dry) bar (g)	0.06	0.04	0.04	0.06	0.07
Starting pressure loss (wet) bar (g)	0.07	0.10	0.12	0.14	–
Change elements at pressure difference of bar (g)*	0.40	0.40	0.40	0.40	1,000 OH

* latest after 12 months or at a differential pressure of 400 mbar. Activated carbon elements latest after 1,000 operating hours.

SPX Flow Technology Moers GmbH | Konrad-Zuse-Straße 25 | D-47445 Moers

Tel.: +49 (0) 28 41 / 8 19-0 | Fax: +49 (0) 28 41 / 8 19 83 | E-Mail: csc@dehydration.spx.com

www.hankison-europe.com | www.spx.com

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