

Filters

NGF | HF 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	$\leq 3.0 \mu\text{m}$	$\leq 1.0 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$
Liquid	$\leq 3.0 \mu\text{m}$	$\leq 1.0 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	$\leq 0.01 \mu\text{m}$	–
Oil	$\leq 5 \text{ mg/m}^3$	$\leq 0.5 \text{ mg/m}^3$	$\leq 0.01 \text{ mg/m}^3$	$\leq 0.0008 \text{ mg/m}^3$	–
Oil vapour	–	–	–	–	$\leq 0.003 \text{ mg/m}^3$
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 %	–

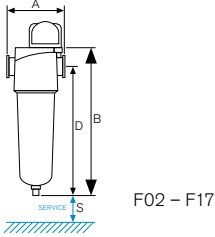
The Hankison® particle and oil filters and carbon adsorbers comply with the ISO 8573-1:2001 requirements class 1 till 5 and offer an optimal and economical protection for compressed air applications.

Accessories		SF			PF			HF			UF			CF			Flange Series
		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	○	○	○	○	○	○	○	○	○	○	○	○	–	–	–	○
Drains	Float drain	●	●	–	●	●	–	●	●	–	●	●	–	–	–	–	○
	Timer drain	○	○	–	○	○	–	○	○	–	○	○	–	–	–	–	○
	Electronic Level Controlled drain	○	○	●	○	○	●	○	○	●	○	○	●	–	–	–	○
	Manual drain	○	○	○	○	○	○	○	○	○	○	○	○	●	●	●	●
Oil content indicator		–	–	–	–	–	–	–	–	–	–	–	–	○	○	○	○

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

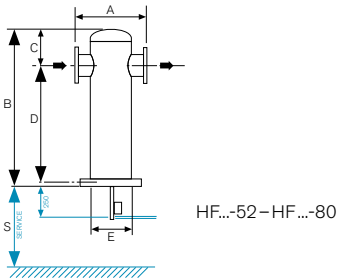
Model	Flow Rate*	Conne- ction	Dimensions						Weight	Filter Elements					Count
			A	B	C	D	E	S		SF	PF	HF	UF	CF	
	m³/h		mm						kg						
F02-B-SF/PF/HF/UF/CF	34	1/4"		206		171			0.8	SF-02	PF-02	HF-02	UF-02	CF-02	1
F03-B-SF/PF/HF/UF/CF	59	3/8"	114							SF-03	PF-03	HF-03	UF-03	CF-03	
F04-B-SF/PF/HF/UF/CF	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									SF-06	PF-06	HF-06	UF-06	CF-06	
F07-B-SF/PF/HF/UF/CF	175	3/4"	132	262		220			1.4	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			337		276			3.8	SF-10	PF-10	HF-10	UF-10	CF-10	
F11-B-SF/PF/HF/UF/CF	612	1 1/2"	200	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									SF-13	PF-13	HF-13	UF-13	CF-13	
F14-B-SF/PF/HF/UF/CF	1,317	2 1/2"		634		550			8.4	SF-14	PF-14	HF-14	UF-14	CF-14	
F15-B-SF/PF/HF/UF/CF	1,750		231							SF-15	PF-15	HF-15	UF-15	CF-15	
F16-B-SF/PF/HF/UF/CF	2,039			817		733			12.6	SF-16	PF-16	HF-16	UF-16	CF-16	
F17-B-SF/PF/HF/UF/CF	2,549	3"		1,085		1,001			28.7	SF-17	PF-17	HF-17	UF-17	CF-17	



Flange Vessel Series	Flow Rate*	Conne- ction	Dimensions						Weight	Filter Elements						Count
			A	B	C	D	E	S		9	7	6*	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	E6-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	E6-64	E5-54	E3-54	E1-54	2
HF 1/3/5/6/7/9/11-56	2,125		440	1,085	168	917	273		37.4							2
HF 1/3/5/6/7/9/11-60	3,158	DN 100							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	DN 150							65.4	E9-PV	E7-PV	E6-PV	E5-PV	E3-PV	E1-PV	5
HF 1/3/5/6/7/9/11-72	8,490		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

* E6 available as high-temperature version (200°C), others on demand.



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
F02 - F17	0.38	0.5	0.63	0.75	0.88	1	1.13	1.25	1.38	1.5	1.63	1.75	1.88	2	2.13
HF...-52 - HF...-80															

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

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

SPX

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

SPX reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com. The green ">" is a trademark of SPX Corporation, Inc.

ISSUED 09/2013 COPYRIGHT © 2013 SPX Corporation

