Fine and micro filters, LFMB-H/LFMA-H, H series Peripherals overview and type codes



Mounting attachments and accessories	Brief description	→ Page
1 Mounting bracket (2 pcs.)	The fine and micro filters are mounted on the wall using mounting	3 / 4.3-9
LFMM	brackets LFMM	

Type codes

,					
		LFMB	- 1/2	— Н	- A
Service	efunction				
LFMA	Micro filter				
LFMB	Fine filter				
Pneum	atic connection				
1/2	Thread G ¹ /2			-	
3⁄4	Thread G3⁄4				
1	Thread G1				
Series					
Н	Series				1
Conder	ısate drain				
А	Fully automatic				

Technical data



General technical data									
Туре		Micro filters LFMA		Fine filters	Fine filters LFMB				
Pneumatic connection		G1⁄2	G3⁄4	G1	G1⁄2	G3⁄4	G1		
Design		Fibre filter		-	-				
Type of mounting		In-line installation							
		Via accessories							
Mounting position		Vertical ±5°							
Operating medium		Compressed air, filt	ered, grade of filtra	ation 1 µm	Compresse	Compressed air, filtered, grade of filtration 5 µm			
Grade of filtration	[µm]	0.01			1	1			
Residual oil content	[mg/m ³]	≤0.01			≤0.5	≤0.5			
Filter efficiency	[%]	99.9999				- ·			
Input pressure	[bar]	0 16							
Air purity classes per ISO	8573-1								
Particulate		1			2	2			
Atomised oil		2			3				

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Technical data

Standard nominal flow rate ¹⁾ qnN [l/min]					
Connection	G1⁄2	G3⁄4	G1		
Micro filters LFMA	1,100	2,000	3,400		
Fine filters LFMB	1,600	3,300	5,200		

1) With 6 bar input pressure and $\Delta p = 0.07$ bar.

Ambient conditions		
Ambient temperature	[°C]	-10 +60
Corrosion resistance	CRC ¹⁾	2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Weights [g]					
	G ¹ /2	G3⁄4	G1		
Micro filters LFMA	1,100	2,800	3,200		
Fine filters LFMB	1,100	2,800	3,200		

Materials Sectional view

Individual units Filter

4.3



Fine and micro filters

TITLE						
1	Housing/bowl	Die-cast zinc				
2	Pressure gauge sight glass	Polymethylmethacrylate				
3	Pressure gauge housing	Polyamide				
-	Seals	Nitrile rubber				

Technical data



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Technical data



Ordering data		
Connection	Grade of filtration 1 µm	Grade of filtration 0.01 µm
	Part No. Type	Part No. Type
G1⁄2	162 818 LFMB-1/2-H-A	162 815 LFMA-1/2-H-A
G3⁄4	162 819 LFMB-3⁄4-H-A	162 816 LFMA-3¼-H-A
G1	162 820 LFMB-1-H-A	162 817 LFMA-1-H-A

Filter combinations LFMBA-H, H series Peripherals overview



1	Mounting attachments and accessories	Brief description	→ Page
	1 Mounting bracket (2 pcs.)	The filter combination is attached to the wall by means of the	3 / 4.3-9
	LFMM	mounting brackets LFMM	

Type cod	es								
		LFMBA		1/2	-	Н]-[A	
Service	function								
LFMBA	Filter combination								
-			1						
Pneum	atic connection								
1/2	Thread G ¹ /2								
3⁄4	Thread G¾								
1	Thread G1								
			1						
Series									
Н	Series								
Conde	nsate drain								
А	Fully automatic								

Filter combinations LFMBA-H, H series

Technical data



Pneumatic connection		G1/2	G3⁄4	G1
Design		Fibre filter	·	•
Type of mounting		In-line installation		
		Via accessories		
Mounting position		Vertical ±5°		
Grade of filtration	[µm]	0.01		
Residual oil content	[mg/m ³]	≤0.01		
Filter efficiency	[%]	99.9999		
Input pressure	[bar]	0 16		
Air purity classes per ISO 85	73-1			
Particulate		1		
Atomised oil		2		

Standard nominal flow rate ¹⁾ qnN [l/min]					
Connection	G1⁄2	G3⁄4	G1		
LFMBAH-A	800	1,400	2,600		

1) With 6 bar input pressure and $\Delta p = 0.07$ bar.

Ambient conditions				
Variant		G ¹ /2	G3⁄4	G1
Ambient temperature	[°C]	-10 +60		
Corrosion resistance	CRC ¹⁾	2		

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Filter combinations LFMBA-H, H series

FESTO

Technical data

Weights [g]			
	G1/2	G3⁄4	G1
LFMBA	2,300	5,700	6,500

Materials

Sectional view



Fine	Fine and micro filters						
1	Housing/bowl	Die-cast zinc					
2	Pressure gauge sight glass	Polymethylmethacrylate					
3	Pressure gauge housing	Polyamide					
-	Seals	Nitrile rubber					

Standard flow rate qn as a function of the output pressure $\Delta p1-2$ LFMBA-1/2-H-A LFMBA-3/4-H-A 0,5 0,5 0,4 0,4 Δp₁₋₂ [bar] Δp₁₋₂ [bar] 0,3 0,3 6bar | 10bar 4bar 0,2 0,2 16bc --16bar 16bar 0,1 0,1 ŏ 0 2000 3000 4000 5000 2000 3000 4000 5000 6000 7000 1000 6000 1000 qn [l/min] qn [l/min] LFMBA-1-H-A



Filter combinations LFMBA-H, H series



lype	B1	В2	В3	В4	D1	L1	L2	L3
LFMBA-1/2-H-A	178		81		G1/2	294	194	
LFMBA-3⁄4-H-A	240	65	112	39	G3⁄4	366	251	60
LFMBA-1-H-A	240		112		G1	466	351	

Ordering data		
Connection	Part No.	Туре
G1/2	162 821	LFMBA-1/2-H-A
G3⁄4	162 822	LFMBA-3/4-H-A
G1	162 823	LFMBA-1-H-A

Fine and micro filters, H series

Mounting bracket LFMM



Ordering data														
Connection							LFM	B/A	LFN	1BA			Part No.	Туре
	B1	B2	B3	D1	H1	H2	L1	L2	L1	L2	L3	L4		
G1⁄2	86	52	1.6	7	60	40	159	127	248	216	5	16.5	162 830	LFMM-1/2-H
G¾, G1	116	68	2	9	80	60	200	157	320	277	5	16	162 831	LFMM-3⁄4-1-H

Connection piece LFMV

for connecting two filters



B1	B2
	R∔A
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Ordering data								
Connection	B1	B2	D1	H1	H2	H3	Part No.	Туре
G1⁄2	9.75	14	M3x0.5	19	15.5	16	162 832	LFMV-1/2-H
G¾, G1	12.5	20	M4	29	26	25.5	162 833	LFMV-3⁄4-1-H

Fine and micro filters, H series



Connection	D1	D2	L1	Part No. Type
	Ø	Ø		
For fine filter				
G1⁄4	35	6.75	74	185 689 LFMBP-1/4-H
G1/2	48	21.7	126	162 827 LFMBP-1/2-H
G3⁄4	72	33	168.8	162 828 LFMBP-3/4-H
G1	72	33	268.8	162 829 LFMBP-1-H
For micro filter				
G1⁄4	35	6.75	74	185 688 LFMAP-1/4-H
G1/2	48	21.7	126	162 824 LFMAP-1/2-H
G3⁄4	72	33	168.8	162 825 LFMAP-3/4-H
	72	33	268.8	162 826 LFMAP-1-H

Filter silencers LFU

Technical data





- N - Flow rate 6,000 ... 12,500 l/min

Temperature range
0 ... +100 °C



All exhaust air from pneumatic control systems is cleaned by the filter silencer. Exhaust air is discharged into the

atmosphere via a fine filter cartridge (degree of filtration: >99.99%). At the same time, exhaust noise is greatly reduced. Condensate is collected in the lower plastic bowl and can be discharged via the condensate drain.



■ Size G1⁄2, G1

- Exhaust air is up to 99.99% free of oil and other contaminants.
- The silencer reduces exhaust noise regardless of frequency.

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General technical data			
Туре		LFU-1/2	LFU-1
Pneumatic connection		G1⁄2	G1
Type of mounting		Thread	
Mounting position		Vertical ±5°	
Standard nominal flow rate ¹⁾	[l/min]	6,000	12,500
Input pressure	[bar]	0 16	
Noise reduction		≤40 db(A)	

1) At 6 bar with respect to atmosphere.

Ambient temperature [°C] 0 +100	
Corrosion resistance CRC ¹ 2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Weights [g]		
Connection	G1/2	G1
Filter silencer	570	1,010

Filter silencers LFU

Technical data



Ordering data	
Connection	Part No. Type
G1⁄2	10 494 LFU-1/2
G1	10 495 LFU-1

Filter silencers LFU Accessories

Filter cartridge LFPU





Ordering data					
Connection	D1	D2	L1	Part No.	Туре
	Ø	Ø			
G1⁄2	70	34.8	110	10 496	LFPU-1 /2
G1	82	42.8	180	10 497	LFPU-1