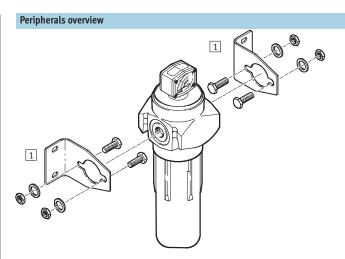
Fine and micro filters, LFMB-H/LFMA-H, H series Peripherals overview and type codes



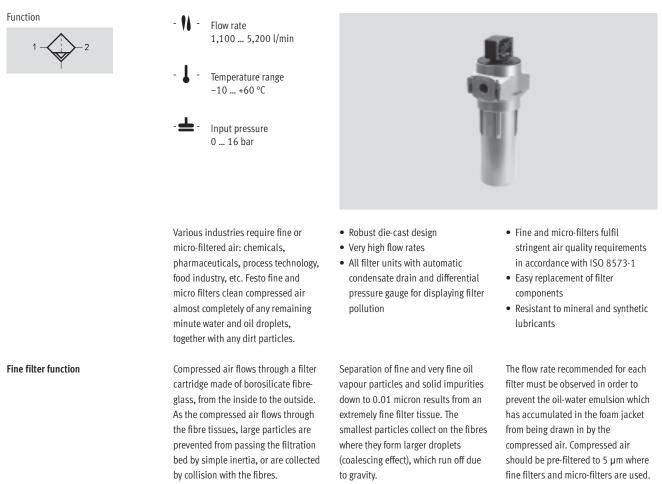
Mounting attachments and accessories	Brief description	→ Page
1 Mounting bracket (2 pcs.)	The fine and micro filters are mounted on the wall using mounting	3 / 4.3-9
LFMM	brackets LFMM	

Type codes

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
		LFMB	[1/2	-	Н	-	А
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							
Conder	nsate drain							
А	Fully automatic							

Fine and micro filters, LFMB-H/LFMA-H, H series

Technical data



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

 $\cdot \parallel \cdot$ Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Individual units

Filter

4.3

Fine and micro filters, LFMB-H/LFMA-H, H series Technical data

FESTO

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.

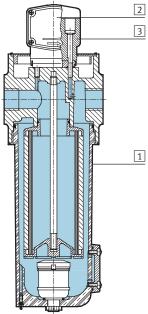
Ambient conditions		
Ambient temperature	[°C]	-10 +60
Corrosion resistance	CRC ¹⁾	2

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

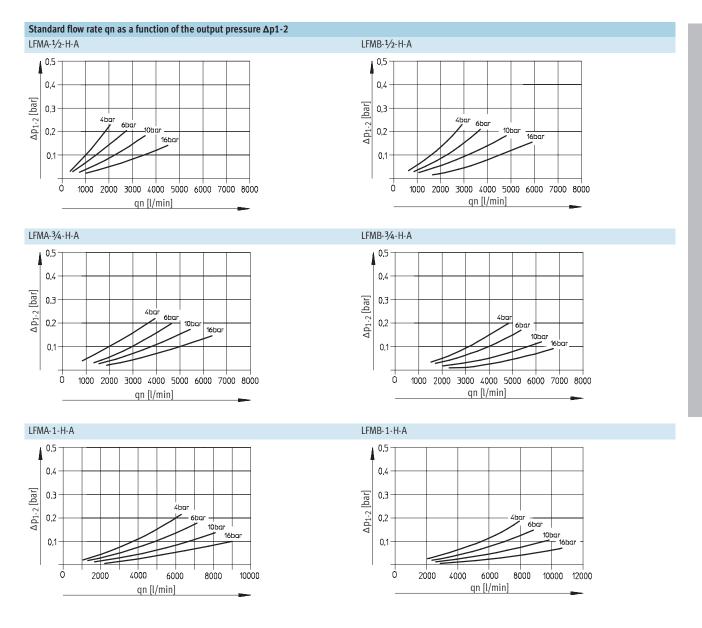


Fine and micro filters

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

Fine and micro filters, LFMB-H/LFMA-H, H series

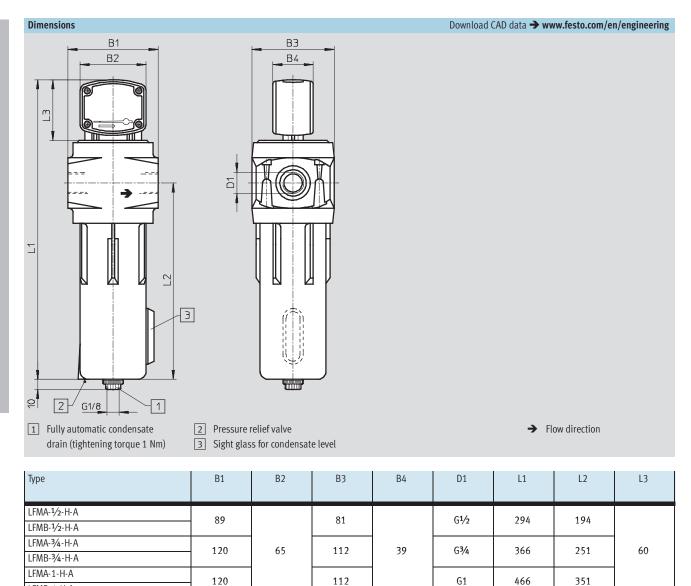
Technical data



Fine and micro filters, LFMB-H/LFMA-H, H series

FESTO

Technical data



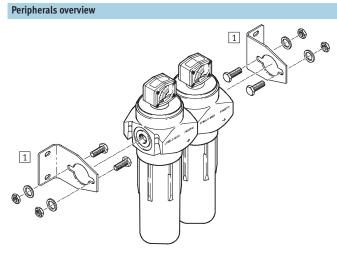
● Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering data						
Connection	Grade of filtration 1 μ m		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-3⁄4-H-A			
G1	162 820 LFMB-1-H-A		162 817 LFMA-1-H-A			

Products 2007 - Subject to change - 2007/03

LFMB-1-H-A

Filter combinations LFMBA-H, H series Peripherals overview



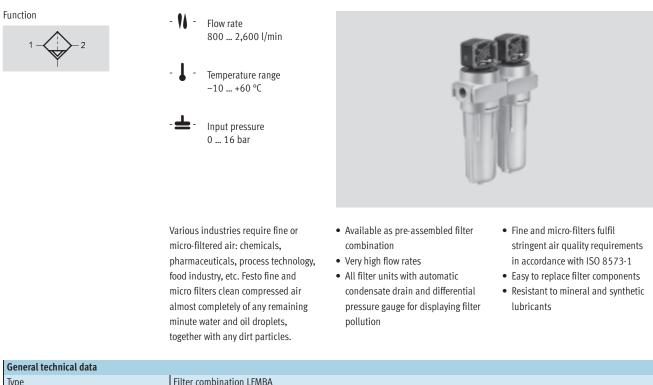
Мо	unting attachments and accessories	Brief description	→ Page
1	Mounting bracket (2 pcs.)	The filter combination is attached to the wall by means of the	3 / 4.3-9
	LFMM	mounting brackets LFMM	

Type cod	es					
		LFMBA	1/2	 Н]-[A
Servic	e function					
LFMBA	Filter combination					
Pneum	natic connection					
1/2	Thread G1/2					
3⁄4	Thread G3⁄4					
1	Thread G1					
Series						
Н	Series					
	-					
Conde	nsate drain					
А	Fully automatic					



Filter combinations LFMBA-H, H series

Technical data



Туре		Filter combination LFMBA	ilter combination LFMBA				
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 8	573-1						
Particulate		1					
Atomised oil		2					

 $\|\cdot\>$ Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

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.

Variant G ¹ /2 G ³ /4	
Variant G ¹ /2 G ³ /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.

3/4.3-6

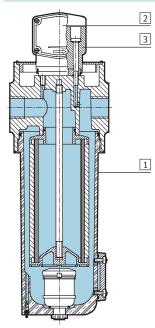
Filter combinations LFMBA-H, H series

FESTO

Weights [g]							
	G ¹ /2	G3⁄4	G1				
LFMBA	2,300	5,700	6,500				

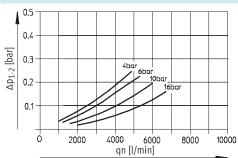
Materials

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							

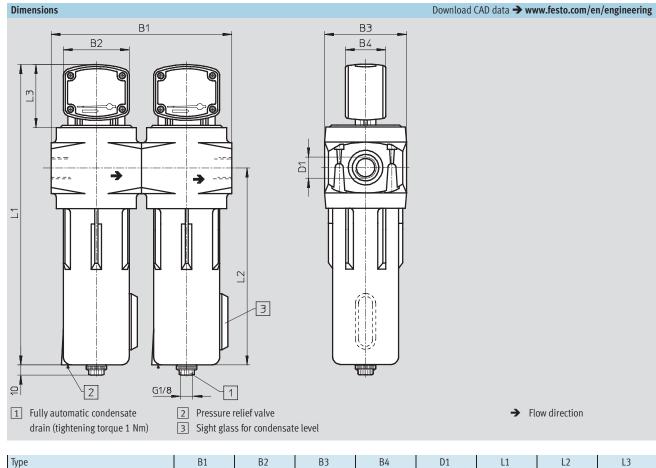
andard flow rate qn as a function of the output pressure Δp1-2 MBA-1⁄2-H-A	LFMBA-3⁄4-H-A
0,5	0,5
	0.3 4bar 6bar
0,3 0,2 6bar 6bar 10bar	0.2 0.2 10bar 10bar 10bar
0.1 16bar	0.1
0 1000 2000 3000 4000 5000 6000	
0 1000 2000 3000 4000 5000 6000 qn [l/min]	0 1000 2000 3000 4000 5000 6000 7000 qn [l/min]
IBA-1-H-A	
0.5	



Filter combinations LFMBA-H, H series

FESTO

Technical data



Іуре	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	

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

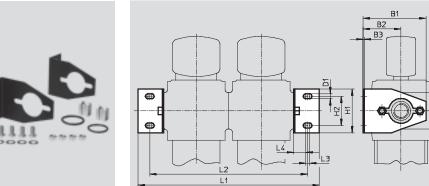
Ordering data		
Connection	Part No.	Туре
G1⁄2	162 821	LFMBA-1/2-H-A
G3⁄4	162 822	LFMBA-¾-H-A
G1	162 823	LFMBA-1-H-A

Individual units Filter

4.3

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-½-H
G¾, G1	116	68	2	9	80	60	200	157	320	277	5	16	162 831	LFMM-¾-1-H

Connection piece LFMV

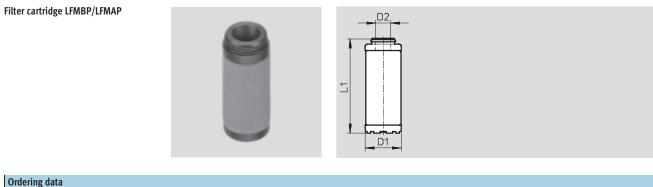
for connecting two filters



	B2
--	----

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-½-H
G¾, G1	12.5	20	M4	29	26	25.5	162 833	LFMV-3⁄4-1-H

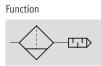
Fine and micro filters, H series



oracini 5 aata					
Connection	D1	D2	L1	Part No.	Туре
	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-¾-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
G1	72	33	268.8	162 826	LFMAP-1-H

Filter silencers LFU

Technical data



- 11 -Flow rate 4,000 ... 12,500 l/min

Temperature range -10 ... +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.

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

General technical data							
Size		G1⁄4	G3⁄8	G1/2	G1		
Pneumatic connection		G1⁄4	G3⁄8	G1/2	G1		
Mounting position		Vertical ±5°	·	·	·		
Flow rate ¹⁾	[l/min]	≥4,000	≥4,700	≤6,000	≤12,500		
Input pressure	[bar]	0 16					
Noise reduction ¹⁾		Reduction of 40 db(A)		>40 db(A)			

At 6 bar with respect to atmosphere.
I • Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ambient conditions

Ambient temperature	[°C]	-10 +60	0 +100				
Corrosion resistance	CRC ¹⁾	2					

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

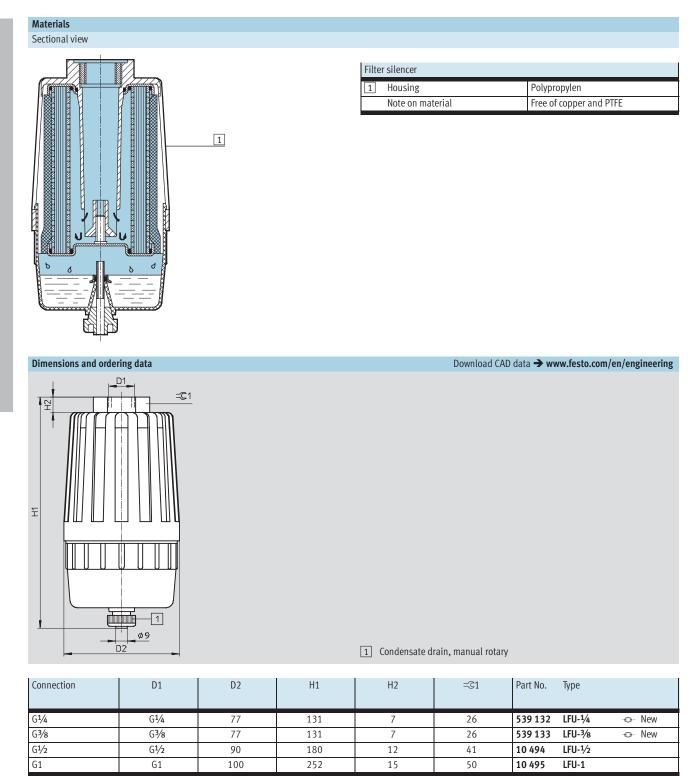
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a surrounding industrial atmosphere or media such as cooling or lubricating agents.

Weights [g]							
Size	G1⁄4	G3⁄8	G1/2	G1			
Filter silencer	190	190	570	1,010			

Individual units Filter 4.3

Filter silencers LFU

Technical data



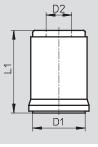
• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Filter silencers LFU Accessories

Filter cartridge LFPU

Note on material: Free of copper and PTFE





Dimensions and ordering data								
For connection	D1	D2	L1	Part No.	Туре			
	Ø	Ø						
G1⁄4,3⁄8	60	28	69	539134	LFPU-1/4-3/8 • New			
G1/2	70	34.8	110	10 496	LFPU-1/2			
G1	82	42.8	180	10 497	LFPU-1			

