Filters LF/LFMA/LFMB/LFX/LFMBA, D series





Туре		Size	Pneun	natic co	onnectio	on							Presso regula [bar]	ure ition ra	nge	Grade [µm]	of filtra	ation	
													[]			u			
			M5	M7	G1⁄8	G¼	G³⁄8	G ¹ /2	G3⁄4	G1	QS4	QS6	0.5 7	0.5 12	2.5 12	0.01	1	5	40
Service units																			
FRC/FRCS	Ω.	Micro				-	-	-	-	-				-	-	-	-		-
		Mini	-	-				-	-	-	-	-			_	-	-		
	M	Midi	-	-	-					-	-	-			-	-	-		
	The second se	Maxi	-	-	-	-	-				-	-			-	-	-		
	Ŧ	1	1	I	I	<u> </u>	I	I	I		1	I	1	I	I	I		I	
Service unit com	binations																		
FRC-K		Micro	-																
		Mini	-	-			-	-	-	-	-	-	-			-	-	-	
	TON	Midi	-	-	-				-	-	-	-	-			-	-	-	
	U U	Maxi	-	-	-	-	-			-	-	-	-			-	-	-	
LFR-K	R A	Micro	-	1				1	1			1		1	1	1		1	
LFRS-K		Mini	-	-			-	-	-	-	-	-	-			-	-	-	
	T T	Midi	-	-	-				-	-	-	-	-			-	-	-	
	Ų	Maxi	-	-	-	-	-			-	-	-	-			-	-	-	
Individual device	es	-1																	
Filter		Micro				-	-	-	-	-				-	-	-	-		-
regulators		Mini	-	-				-	-	-	-	-			-	-	-		
LFR/LFRS		Midi	-	-	-					-	-	-			-	-	-		
	Ų	Maxi	-	-	-	-	-				-	-			-	-	-		
Filters		Micro				-	-	-	-	-			-	-	-	-	-		-
LF	W	Mini	-	-				-	-	-	-	-	-	-	-	-	-		
		Midi	-	-	-					Ι	-	-	-	-	-	-	Ι		
	Ŷ	Maxi	-	-	-	-	-				-	-	-	-	-	-	-		
Fine and micro		Micro	-	-	-		-	-	-			-		-	-	-		-	
filters		Mini	-	-				-	-	-	-	-	-	-	-			-	-
LFMA/LFMB	Ĩ	Midi	-	-	-					-	-	-	-	-	-			-	-
	Ŷ	Maxi	-	-	-	-	-				-	-	-	-	-			-	-
Active carbon		Micro	-	-											-				
filters	No.	Mini	-	-				-	-	-	-	-	-	-	-	-	-	-	-
LFX		Midi	-	-	-					١	-	-	-	-	-	-	Ι	-	-
	Ŷ	Maxi	-	-	-	-	-				-	-	-	-	-	-	-	-	-
Filter		Micro	-	1	1		1	1							1				
combinations		Mini	-	-				-	-	-	-	-	-	-	-			-	-
LFMBA	HÌ	Midi	-	-	-					-	-	-	-	-	-			-	-
	<u></u>	Maxi	-	-	-	-	-				-	-	-	-	-			-	-
											_		_						
Pressure		Micro				-	-	-	-	-				-	-	-	-	-	-
regulators		Mini	-	-				-	-	-	-	-			-	-	-	-	-
LR/LRS		Midi	-	-	-					I	-	-			-	-	I	-	-
		Maxi	-	-	-	-	-				-	-			-	-	-	-	-

Туре	Size	Bowl g	guard	Conde	nsate dı	ain	Pressu indica		Actuat	tor lock	Supply	y voltago	9	Options			→ Page/ Internet
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Directly actuated pressure regulator with integrated return flow function	Pilot actuated pressure regulator with integrated return flow function	Differential pressure indicator	-
Service units																	
FRC/FRCS	Micro	-				-				-	-	-	-	-	-	-	frc
	Mini		-		-						-	-	-	-	-	-	
	Midi		-		-						-	-	-	-	-	-	
	Maxi		-		-						-	-	-			-	
		1		1		1		1	1	1	1	1		1	ı — I		1
Service unit com	nbination	S															
FRC-K	Micro	-															frc
	Mini		-		-			-		-		-	-	-	-	-	
	Midi		-		-			-		-		-	-	-	-	-	
	Maxi		-		-			-		-		-	-			-	
LFR-K	Micro	-		1				1	1	1		1	1				lfr
LFRS-K	Mini		-		-			-				-	-	-	-	-	
	Midi		-		-			-				-	-	-	-	-	
	Maxi		-		-			-				-	-			-	-
								1	1						11		
Individual devic	es																
Filter	Micro	-				-				-	-	-	-	-	-	-	lfr
regulators	Mini		-		-						-	-	-	-	-	-	
LFR/LFRS	Midi		-		-						-	-	-	-	-	-	
	Maxi		-		-						-	-	-			-	
Filters	Micro	-				-	-	-	-	-	-	-	-	-	-	-	6
LF	Mini		-		-		-	-	-	-	-	-	-	-	-	-	
	Midi		-		-		-	-	-	-	-	-	-	-	-	-	
	Maxi		-		-		-	-	-	-	-	-	-	-	-	-	
Fine and micro	Micro	-													ļ		14
filters	Mini		-		-		-	-	-	-	-	-	-	-	-		1
lfma/lfmb	Midi		-		-		-	-	-	-	-	-	-	-	-		1
	Maxi		-		-		-	-	-	-	-	-	-	-	-		
		1					1	1	1	1		1	ı		ı		23
Active carbon	Micro	-									1	1		r			1
	Micro Mini	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
filters			-	-	-	-	-	-	-	-	-	-	-			-	-
filters	Mini																-
filters LFX	Mini Midi Maxi		-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
filters LFX Filter	Mini Midi		-	-	-	-	-	-	-	-	-	-	-	-	-	-	29
filters LFX Filter combinations	Mini Midi Maxi Micro Mini	•	-	-	-		-	-	-	-	-	-	-	-		-	29
filters L FX Filter combinations	Mini Midi Maxi Micro Mini Midi	- -	-	-	- - -	-		-	-		-	- - -	- - -	-	- - -	-	29
filters L FX Filter combinations	Mini Midi Maxi Micro Mini	- -	- - -	-	-	-	- - -			- - -	- - -		-	- - -		-	29
filters LFX Filter combinations LFMBA	Mini Midi Maxi Micro Mini Midi Maxi	8 9 - 9 9 9	- - - -	- - -	- - - -	- - 8	- - - -	- - - -	- - - -	- - -	- - - -	- - -	- - - -	- - - -	- - - -	-	-
filters LFX Filter combinations LFMBA Pressure	Mini Midi Maxi Micro Mini Midi Maxi Micro	- -	- - - -	- - -	- - - -		- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - - -	- - - -	- - - -	-	29 Ir
Active carbon filters LFX Filter combinations LFMBA Pressure regulators LR/LRS	Mini Midi Maxi Micro Mini Midi Maxi	8 9 - 9 9 9	- - - -	- - -	- - - -	- - 8	- - - -	- - - -	- - - -	- - -	- - - -	- - -	- - - -	- - - -	- - - -	-	-

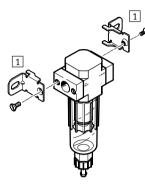
Туре		Size	Pneumat connecti										Pressure regulatio [bar]	
			M5	M7	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4	G1	QS4	QS6	0.5 7	0.5 12
Individual device	ces						-							
Pressure		Micro	-											
regulators		Mini	-	-	-		-	-	-	-	-	-		
LRB/LRBS		Midi	-	-	-	-		-	-	-	-	-		
		Maxi	-										1	1
Pressure	\bigcirc	Micro	_											
regulator		Mini	-	-	-			-	-	-	-	-		
combinations		Midi	-	-	-	-			-	-	-	-		
LRB-K		Maxi	-			·	·		·				·	·
					-									
Lubricators		Micro				-	-	-	-	-			-	-
LOE		Mini	-	-				-	-	-	-	-	-	-
	e c	Midi	-	-	-					-	-	-	-	-
	U	Maxi	-	-	-	-	-				-	-	-	-
On-off valves		Micro	-		1			1	1	1	1			
HE		Mini	-	-				-	-	-	-	-	-	-
	₹0 ₽-]	Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
On-off valves,	<u>وا</u>	Micro	-		1			1	1	1	1			
electrical		Mini	-	-				-	-	-	-	-	-	-
HEE		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
On-off valves,		Micro	-		1	1	1	1	1	1	1		1	
pneumatic		Mini	-	-				-	-	-	-	-	-	-
HEP		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
Soft-start		Micro	-	1	I -	-	_	1	1	1	1	1	T	,
valves		Mini	-	-				-	-	-	-	-	-	-
HEL		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
Mamburg	~	MA:												
Membrane air		Micro	-											
dryers		Mini	-											
LDM1		Midi	-	1				_	_	_	1		1	
	U	Maxi	-	-	-	-	-				-	-	-	-
Branching		Micro	-											
modules		Micro	-											<u></u>
FRM				-				-	-	-	-	-	-	-
T KIWI		Midi	-	-	-					-	-	-	-	-
Dictribute		Maxi	-	-	-	-	-				-	-	-	-
Distributor		Micro	-	-	-	-	-	-	-	-	-	-	-	-
block FRZ		Mini	-	-	-	-	-	-	-	-	-	-	-	-
ſĸŁ		Midi	-	-	-	-	-	-	-	-	-	-	-	-
		Maxi	-	-	-	-	-	-	-	-	-	-	-	-

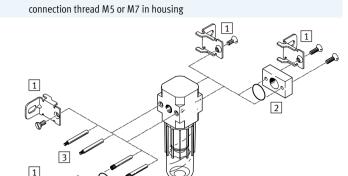
Туре	Size	Bowl guar	d	Pressure i	ndication	Actuator l	ock	Supply vo	ltage		Options		→ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Non-return function	Pressure switch	_
ndividual devid	ces												
Pressure	Micro	-											lrb
regulators	Mini	-	-	-				-	-	-	-	-	1
.RB/LRBS	Midi	-	-	-				-	-	-	-	-	1
	Maxi	-	-		·						·		1
Pressure	Micro	-											lrb
regulator	Mini	-	-	-			-	-	-	-	-	-	1
combinations	Midi	-	-	-			-	-	-	-	-	-	1
LRB-K	Maxi	-	-				1	1	1				1
ubricators	Micro	-		-		-	-	-	-	-	-	-	loe
.OE	Mini		-	-		-	-	-	-	-	-	-	
	Midi		-	-		-	-	-	-	-	-	-	_
	Maxi		-	-		-	-	-	-	-	-	-	
On-off valves	Micro	-											he
ΗE	Mini	-	-	-			-	-	-	-	-	-	
	Midi	-	-	-			-	-	-	-	-	-	
	Maxi	-	-	-			-	-	-	-	-	-	
On-off valves,	Micro	-											hee
electrical	Mini	-	-	-		-	-				-	-	
HEE	Midi	-	-	-		-	-				-	-	
	Maxi	-	-	-		-	-				-	-	
On-off valves,	Micro	-	Į.										hep
oneumatic	Mini	-	-	-		-	-	-	-	-	-	-	
IEP	Midi	-	-	-		-	-	-	-	-	-	-	1
	Maxi	-	-	-		-	-	-	-	-	-	-	1
Soft-start	Micro	-	i.	<u>.</u>		<u>.</u>		i.			<u>.</u>		hel
alves	Mini	-	-	-		-	-	-	-	-	-	-	1
HEL	Midi	-	-	-		-	-	-	-	-	-	-	1
	Maxi	-	-	-		-	-	-	-	-	-	-	1
								ŭ.			- . -		- 1
Membrane air	Micro	-											ldm1
lryers	Mini	-											
.DM1	Midi	-											
	Maxi		-	-		_	-	-	-	-	-	-	
Branching	Micro	-											frm
nodules	Mini	-	-	-		-	-	-	-	-			
RM	Midi	-	-	-		-	-	-	-	-			
	Maxi	-	-	-		-	-	-	-	-			
Distributor	Micro	-	-	-		-	-	-	-	-	-	-	frz
olock	Mini	-	-	-		-	-	-	-	-	-	-	1
RZ	Midi	-	-	-		-	-	-	-	-	-	-	1
		1	1	1	1	1	1	1	1	1	1	1	1

Filters LF, D series, metal design Peripherals overview

Micro

Individual unit with connection plates, connection size G1/8, QS-4 or QS-6



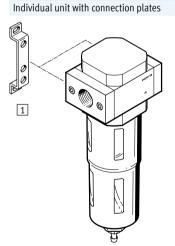


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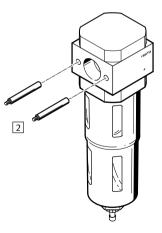
Individual unit without connection plates, for service unit combination

Mou	nting attachments and accessories					
		Individual unit		Combination		→ Page/
		with connection	without connection	with connection	without connection	Internet
		plates	plates	plates	plates	
1	Mounting bracket	-	-	-	-	hfoe-d
	HFOE	-	-	-	-	
2	Connecting plate kit				-	pbl
	PBL	-	-	-	-	
3	Threaded pin					frb-d
	FRB	-	-	-	-	

Mini/Midi/Maxi



Individual unit without connection plates, for service unit combination



Mounting attachments and accessories

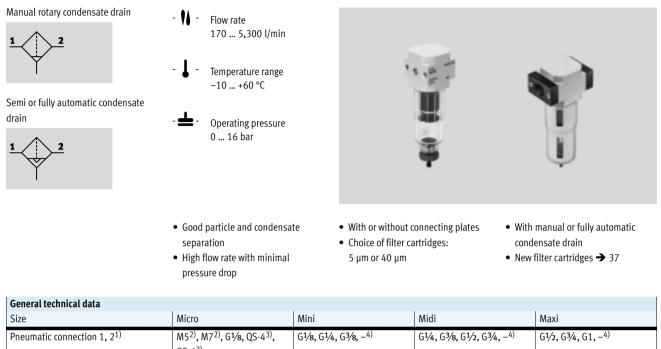
		Individual unit		Combination		→ Page/
		with connection	without connection	with connection	without connection	Internet
		plates	plates	plates	plates	
1	Mounting bracket		_		_	hfoe-d
	HFOE	-	_	-	_	
2	Threaded pin (included in scope of delivery)		_		-	frb-d
	FRB	-	-	-	-	

		LF	 1⁄4	 D	- 5	M	-	MIDI] –			A	A	A	A	A	A
Basic fu	nction																
	i																
LF	Filter																
Pneuma	tic connection																
MINI/M	DI/MAXI																
	Without connecting plates																
MICRO	Connection three d ME in housing																
M5 M7	Connecting thread M5 in housing Connecting thread M7 in housing																
1/8	Connecting plates with connecting thread G ¹ /8																
QS4	Connecting plates with outliceting tinead 678																
QS6	Connecting plates with push-in connector QS-6																
• •	0,																
MINI																	
1⁄8	Connecting plates with connecting thread G1/8																
1⁄4	Connecting plates with connecting thread G ¹ /4																
3⁄8	Connecting plates with connecting thread G3⁄8																
MID																	
MIDI 1⁄4	Connecting plates with connecting thread C1/																
¹ /4 ³ /8	Connecting plates with connecting thread G ¹ / ₄ Connecting plates with connecting thread G ³ / ₈																
¹ /2	Connecting plates with connecting thread G ¹ /2																
3/4	Connecting plates with connecting thread G ³ / ₄																
/-	connecting places with connecting thread 074																
MAXI																	
1/2	Connecting plates with connecting thread G1/2																
3⁄4	Connecting plates with connecting thread G ³ ⁄ ₄																
1	Connecting plates with connecting thread G1																
Series																	
D	Series																
Grade o	f filtration																
5M	5 μm																
5	- p																
MINI/M	DI/MAXI																
	40 μm																
Size																	
MICRO	Grid dimension 25 mm (without connecting plate																
MINI	Grid dimension 40 mm (without connecting plate																
MIDI	Grid dimension 55 mm (without connecting plate																
MAXI	Grid dimension 66 mm (without connecting plate	S)															
Conden	sate drain																
	Manual rotary									 	 						
	,																
MICRO																	
Н	Semi-automatic																
-																	

А Fully automatic

Technical data

FESTO



Pneumatic connection 1, 2 ¹⁾		M5 ²⁾ , M7 ²⁾ , G ¹ /8, QS-4 ³⁾ ,	G1/8, G1/4, G3/8, -4)	G1⁄4, G3⁄8, G1⁄2, G3⁄4, -4)	G1/2, G3/4, G1, -4)
		QS-6 ³⁾			
Design		Sintered filter with centrifuga	al separator		
Type of mounting		Via accessories			
		In-line installation			
Mounting position		Vertical ±5°			
Grade of filtration	[µm]	5	5		
			40		
Air purity class at the output		Compressed air according to	ISO 8573-1:2010 [6:8:4] (gra	ade of filtration 5 µm)	
		-	Compressed air according	o ISO 8573-1:2010 [7:8:4] (grad	de of filtration 40 µm)
		Inert gases			
Bowl guard		-	Metal bowl guard		
Condensate drain		Manual rotary			
		Semi-automatic	Fully automatic		
Max. condensate volume	[cm ³]	3	22	43	80

Connecting plates with connecting thread
 Without connecting plates, connecting thread in housing

3) Connecting plates with push-in connector 4) Without connecting plates.

Note: This product conforms to ISO 1179-1 and to ISO 228-1 .

Standard nominal flow rate	e q _{nN} 1) [l/min]					
Size		Micro				
Pneumatic connection		M5	M7	G1⁄8	QS-4	QS-6
Grade of filtration	5 µm	170	280	290	170	280

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar.

A minimum flow rate of 125 l/min is required for correct operation.

Standard nominal flow rate $q_{\rm ev}^{(1)}$ [l/min]

Standard Hommat flow face q	InN 'Ly minj										
Size		Mini			Midi				Maxi		
Pneumatic connection		G1⁄8	G1⁄4	G3⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4	G1⁄2	G3⁄4	G1
Grade of filtration	5 µm	800	950	1,100	1,600	1,800	2,000	2,000	3,700	3,600	3,800
	40 µm	1,000	1,200	1,400	1,900	2,700	3,000	3,000	4,400	5,000	5,300

1) Measured at p1 = 6 bar and $\Delta p = 1$ bar.

A minimum flow rate of 125 l/min is required for correct operation.

Operating and environment	tal conditior	IS			
Condensate drain		Manual rotary		Semi-automatic	Fully automatic
Size		Micro	Mini/Midi/Maxi	Micro	Mini/Midi/Maxi
Operating pressure	[bar]	0 10	0 16	1 10	2 12
Operating medium		Compressed air according to			
		ISO 8573-1:2010 [-:9:-]	ISO 8573-1:2010 [-:9:-]	ISO 8573-1:2010 [-:9:-]	ISO 8573-1:2010 [7:9:-]
		Inert gases			
Ambient temperature	[°C]	-10 +60			+5 +60
Temperature of medium	[°C]	-10 +60			+5 +60
Storage temperature	[°C]	-10 +60			
Corrosion resistance class C	RC ¹⁾	2			
Certification		Germanischer Lloyd			

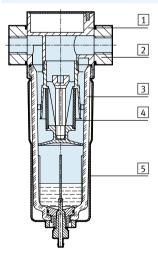
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmo-sphere typical for industrial applications.

Weight [g]						
Size	Micro		Mini	Midi	Maxi	
	Connecting	Connecting			Connection	Connection
	thread	plate			G1⁄2, G3⁄4	G1
Filter	44	64	250	700	1,340	1,440

Materials

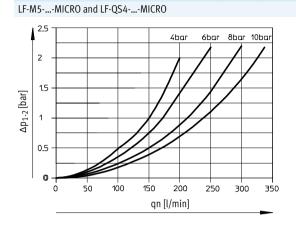
Sectional view



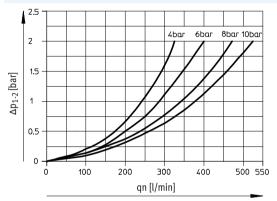
Filter	Micro	Mini/Midi/Maxi
1 Housing	Wrought aluminium alloy	Die-cast zinc
2 Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
3 Bowl	PC	
4 Filter cartridge	PE	
5 Metal bowl guard	-	Aluminium
– Seals	NBR	
Note on materials	RoHS-compliant	

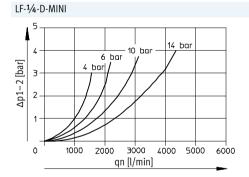
Filters LF, D series, metal design Technical data

Standard flow rate qn as a function of differential pressure $\Delta p1-2$

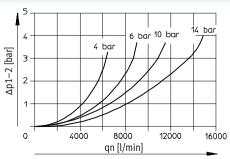


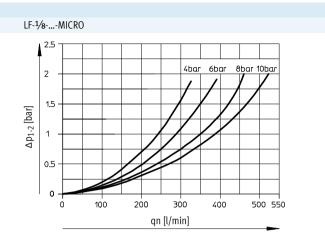
LF-M7-...-MICRO B and LF-QS6-...-MICRO

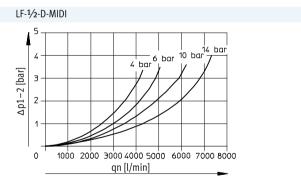


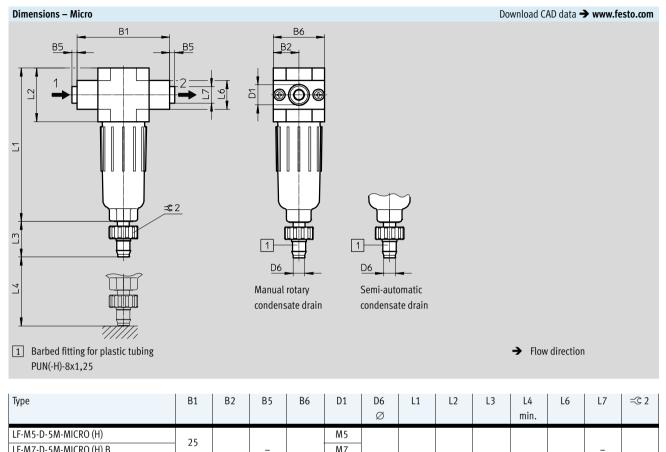


LF-1-D-MAXI









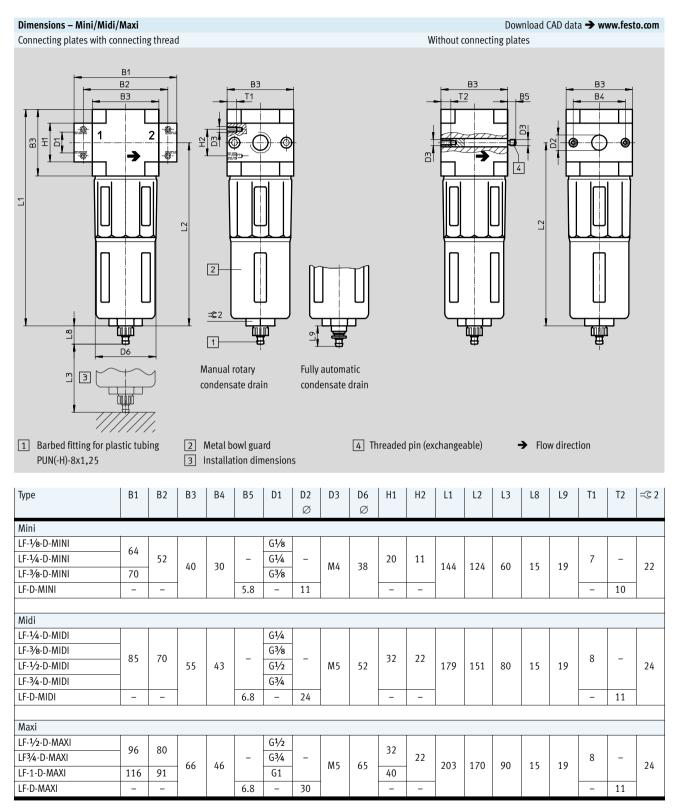
			_		1017							_	1
LF-1/8-D-5M-MICRO (H)		12.5		25	G1⁄8	5.6	74.5	26	~17.3	60	14		
LF-QS4-D-5M-MICRO (H)	45		~25		QS-4							~8	
LF-QS6-D-5M-MICRO (H)			~2.5		QS-6							~10	

Note: This product conforms to ISO 1179-1 and to ISO 228-1

12



Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering d	ata – Micro					
Size	Condensate drain	Connection	Grade of f	ltration 5 μm		
			Part No.	Туре		
Without co	nnecting plates, connecting	thread in housing	7			
Micro	Manual rotary	M5	526297	LF-M5-D-5M-MICRO		
inicio	manualiotary	M7	534182	LF-M7-D-5M-MICRO-B		
	Semi-automatic	M5	526298	LF-M5-D-5M-MICRO-H		
	Senn automatic	M7	534183	LF-M7-D-5M-MICRO-H-B		
		1117	JJ410J			
Connecting	g plates with connecting thr	ead				
Micro	Manual rotary	G ¹ /8	526299	LF-1/8-D-5M-MICRO		
	Semi-automatic	G ¹ /8	526300	LF-1/8-D-5M-MICRO-H		
		- , -				
Connecting	g plates with push-in conne	ctor				
Micro	Manual rotary	QS-4	526305	LF-QS4-D-5M-MICRO		
		QS-6	526307	LF-QS6-D-5M-MICRO		
	Semi-automatic	QS-4	526306	LF-QS4-D-5M-MICRO-H		
		QS-6	526308	LF-QS6-D-5M-MICRO-H		
		4 5 0	120,000	200 5 Sin micho II		
Ordoring J	ata Mini/Midi/Maui					
Size	ata – Mini/Midi/Maxi Condensate drain	Connection	Grade of f	Itration E um	Crada of f	iltration 40 um
3128	condensate dram	connection	Part No.	Itration 5 µm	Part No.	iltration 40 μm
			Part NO.	Туре	Part NO.	Туре
	nnecting plates	1				
Mini	Manual rotary	-	192557	LF-D-5M-MINI	192551	LF-D-MINI
	Fully automatic	-	192560	LF-D-5M-MINI-A	192554	LF-D-MINI-A
Midi	Manual rotary	-	192558	LF-D-5M-MIDI	192552	LF-D-MIDI
	Fully automatic	-	192561	LF-D-5M-MIDI-A	192555	LF-D-MIDI-A
Maxi	Manual rotary	-	192559	LF-D-5M-MAXI	192553	LF-D-MAXI
	Fully automatic	-	192562	LF-D-5M-MAXI-A	192556	LF-D-MAXI-A
Connecting	g plates with connecting thr	1	1			
Mini	Manual rotary	G1⁄8	162610	LF-1/8-D-5M-MINI	159612	LF-1/8-D-MINI
		G1⁄4	162611	LF-¼5M-MINI	159613	LF-1/4-D-MINI
		G3⁄8	162612	LF-¾8-D-5M-MINI	162606	LF-3/8-D-MINI
	Fully automatic	G1⁄8	162618	LF-1/8-D-5M-MINI-A	159616	LF-1/8-D-MINI-A
		G1⁄4	162619	LF-¼-D-5M-MINI-A	159617	LF-1⁄4-D-MINI-A
		G3⁄8	162620	LF-¾8-D-5M-MINI-A	162608	LF-3/8-D-MINI-A
Midi	Manual rotary	G1⁄4	186460	LF-¼-D-5M-MIDI	186459	LF-1⁄4-D-MIDI
		G3⁄8	162613	LF-¾8-D-5M-MIDI	159576	LF-3/8-D-MIDI
		G1⁄2	162614	LF-1/2-D-5M-MIDI	159578	LF-1/2-D-MIDI
		G3⁄4	162615	LF-3/4-D-5M-MIDI	162607	LF-¾-D-MIDI
	Fully automatic	G1⁄4	186462	LF-1/4-D-5M-MIDI-A	186461	LF-¼-D-MIDI-A
		G3⁄8	162621	LF-3/8-D-5M-MIDI-A	159577	LF-3/8-D-MIDI-A
		G1/2	162622	LF-1/2-D-5M-MIDI-A	159579	LF-1/2-D-MIDI-A
		G3⁄4	162623	LF-¾-D-5M-MIDI-A	162609	LF-¾-D-MIDI-A
Maxi	Manual rotary	G1⁄2	186464	LF-1/2-D-5M-MAXI	186463	LF-1/2-D-MAXI
		G3⁄4	162616	LF-¾-D-5M-MAXI	159614	LF-¾-D-MAXI
		G1	162617	LF-1-D-5M-MAXI	159615	LF-1-D-MAXI
	Fully automatic	G1/2	186466	LF-1/2-D-5M-MAXI-A	186465	LF-1/2-D-MAXI-A
		G3⁄4	162624	LF-3/4-D-5M-MAXI-A	159618	LF-¾-D-MAXI-A
		G1	162625	LF-1-D-5M-MAXI-A	159619	LF-1-D-MAXI-A

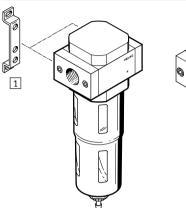
FESTO

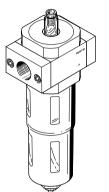
Fine and micro filters LFMA/LFMB, D series, metal design Peripherals overview

FESTO

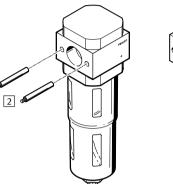
Mini/Midi/Maxi

Individual unit with connection plates without differential pressure indicator





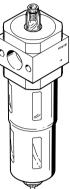
with differential pressure indicator



without differential pressure indica-

tor

Individual unit without connection plates, for service unit combination



with differential pressure indicator

	Individual unit		Combination	→ Page/	
	with connection	without connection	with connection	without connection	Internet
	plates	plates	plates	plates	
1 Mounting bracket	-	_		_	hfoe-d
HFOE	-	_	-	_	
2 Threaded pin (included in scope of delivery)				-	frb-d
FRB	-	-		-	

FESTO

	[LFMB	 1⁄4	 D	-[MIDI] – [DA		А
Basic f	unction									
LFMA	Micro filter with grade of filtration 0.01 μ m									
LFMB	Fine filter with grade of filtration 1 μ m									
Pneum	atic connection									
	NDI/MAXI									
	Without connecting plates									
MINI										
1⁄8	Connecting plates with connecting thread G1/8									
1⁄4	Connecting plates with connecting thread G1⁄4									
3⁄8	Connecting plates with connecting thread G3⁄8									
MIDI										
1/4	Connecting plates with connecting thread G1⁄4									
3⁄8	Connecting plates with connecting thread G3/8									
1/2	Connecting plates with connecting thread G1/2									
3⁄4	Connecting plates with connecting thread G3⁄4									
MAXI										
1/2	Connecting plates with connecting thread G1/2									
3⁄4	Connecting plates with connecting thread G ³ ⁄ ₄									
1	Connecting plates with connecting thread G1									
Series										
D	Series]					
Size										
MINI	Grid dimension 40 mm (without connecting plat	es)								
MIDI	Grid dimension 55 mm (without connecting plat									
MAXI	Grid dimension 66 mm (without connecting plat									
Filter c	ontamination sensing									
D 4	Without differential pressure indicator									
DA	With differential pressure indicator									
Conder	nsate drain									
	Manual rotary									
Δ	Fully automatic									

Fully automatic А

M -

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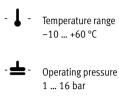
Technical data

Manual rotary condensate drain, without differential pressure indicator



with differential pressure indicator





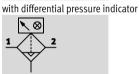
Flow rate

80 ... 2,780 l/min



- High-efficiency filter for special requirements
- Air quality to ISO 8573-1:2010
- With or without connecting plates
- Version with differential pressure indicator for optical indication of filter contamination
- Choice of filter cartridges: 0.01 µm or 1 µm
- New filter cartridges → 37

Fully automatic condensate drain, without differential pressure indicator



General technical data

General technical data								
Size		Mini	Midi	Maxi				
Pneumatic connection 1, 2 ¹⁾		G1/8, G1/4, G3/8, -2)	G ¹ /4, G ³ /8, G ¹ /2, G ³ /4, - ²⁾	G ¹ /2, G ³ /4, G1, - ²⁾				
Design		Fibre filter						
Type of mounting		Via accessories						
		In-line installation						
Mounting position		Vertical ±5°						
Grade of filtration	[µm]	0.01 (micro filter LFMA)						
		1 (fine filter LFMB)						
Air purity class at the output		Compressed air according to ISO 8573-1:2010 [1:7:2] (micro filter LFMA)						
		Compressed air according to ISO 8573-1	1:2010 [5:7:3] (fine filter LFMB)					
		Inert gases						
Filter efficiency	[%]	99.9999 (grade of filtration 0.01 μ m, m	icro filter LFMA)					
		99.99 (grade of filtration 1 μ m, fine filte	er LFMB)					
Bowl guard		Metal bowl guard						
Condensate drain		Manual rotary						
		Fully automatic						
Differential pressure indicator		Visual indicator						
Residual oil content	[mg/m ³]	≤0.01 (micro filter LFMA)						
		≤0.5 (fine filter LFMB)						
Max. condensate volume	[cm ³]	22	43	80				

1) Connecting plates with connecting thread

2)

Without connecting plates.
 Note: This product conforms to ISO 1179-1 and to ISO 228-1

Technical data

Standard flow rate q _n 1) [l/min]										
Size	Mini			Midi				Maxi		
Pneumatic connection 1, 2	G1⁄8	G1⁄4	G3⁄8	G1⁄4	G3⁄/8	G1⁄2	G3⁄4	G1⁄2	G3⁄4	G1
Micro filter LFMA										
Max. standard flow rate for air purity	360	410	450	740	880	1,120	1,110	1,500	1,900	2,200
class q _{n max}										
Min. standard flow rate for air purity	80	100	100	240	250	330	300	500	500	480
class q _{n min}										
Fine filter LFMB										
Max. standard flow rate for air purity	500	650	675	900	1,420	1,750	1,980	2,400	2,220	2,780
class q _{n max}										
Min. standard flow rate for air purity	150	150	125	350	500	500	600	800	750	620
class q _{n min}										

1) Measured at p1 = 6 bar.

125 l/min must be available for the fully automatic condensate drain to close correctly.

Operating and environmer	ntal condition	15				
Condensate drain		Manual rotary	Fully automatic			
Operating pressure	[bar]	1 16	2 12			
Operating medium		Compressed air according to ISO 8573-1:2010 [6:8:4] ¹⁾				
		Inert gases				
Ambient temperature	[°C]	-10 +60	+5 +60			
Temperature of medium	[°C]	+1.5 +60	+5 +60			
Storage temperature	[°C]	-10 +60				
Corrosion resistance class	CRC ²⁾	2				

1) It is recommended to prefilter the compressed air for the micro filter LFMA using a fine filter LFMB (grade of filtration 1 µm).

2) Corrosion resistance class CRC 2 to Festo standard FN 940070

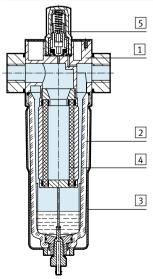
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Weight [g]

weight [g]			
Size	Mini	Midi	Maxi
Without differential pressure indicator	250	650	1,200
With differential pressure indicator	368	834	1,340

Materials



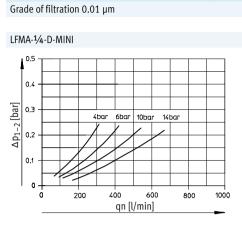


Fine	Fine and micro filters							
1	Housing	Die-cast zinc						
2	Bowl	PC						
3	Metal bowl guard	Aluminium						
4	Filter	Borosilicate fibre						
5	Housing for version with	PC						
	differential pressure indicator							
-	Seals	NBR						
Note	on materials	RoHS-compliant						
		Free of copper and PTFE						

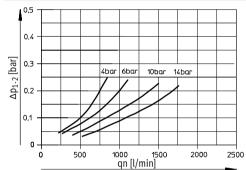
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Technical data

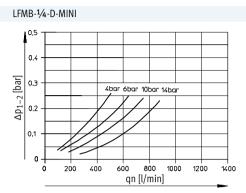




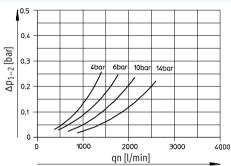
LFMA-1/2-D-MIDI



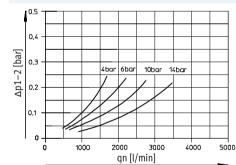
Grade of filtration 1 µm



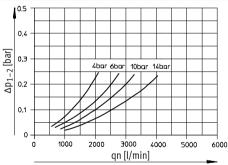




LFMA-1-D-MAXI

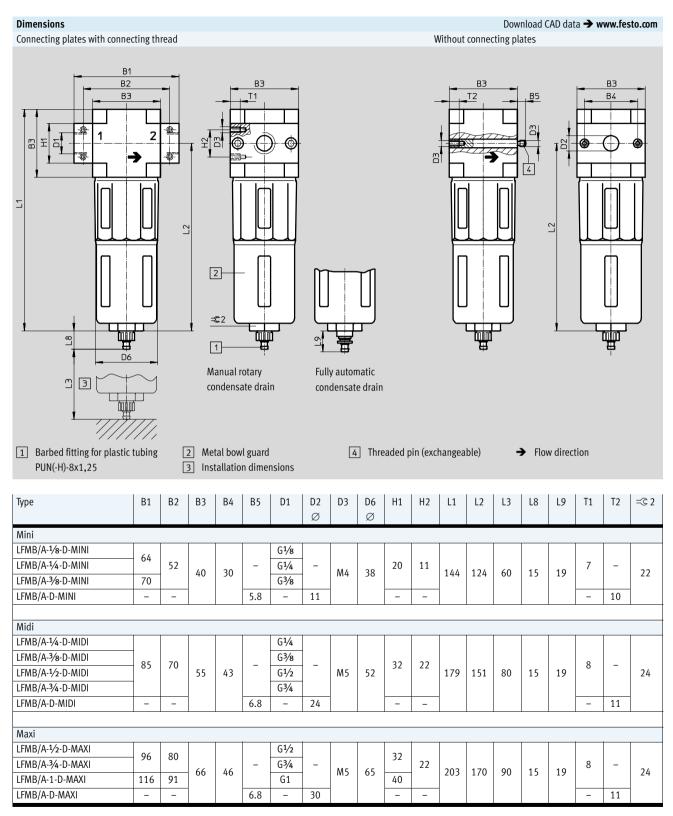


LFMB-1-D-MAXI



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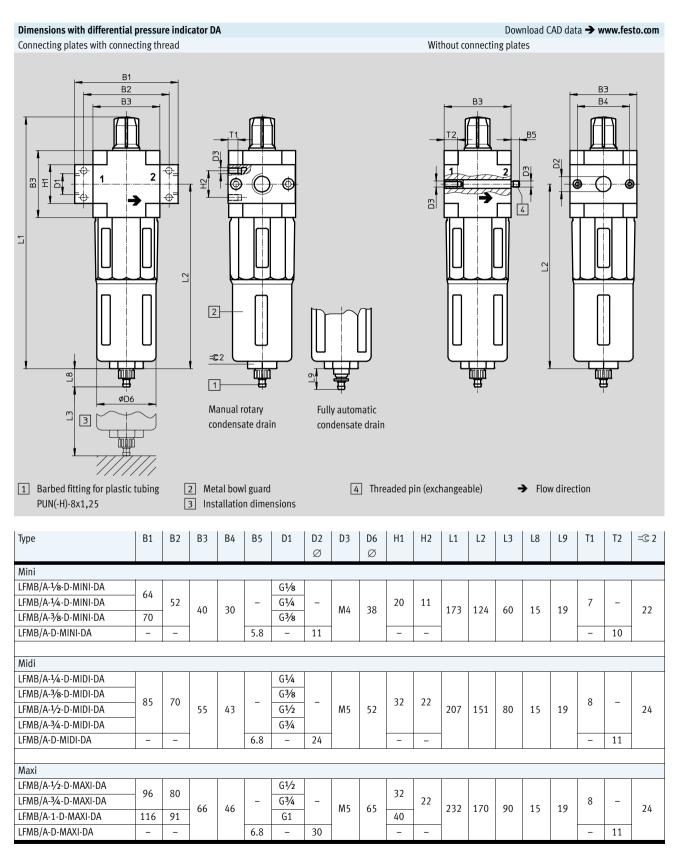
Technical data



♦ Note: This product conforms to ISO 1179-1 and to ISO 228-1

FESTO

Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering	data – Micro filter LFMA	A Contraction of the second seco	
Grade of f	iltration 0.01 μm, metal	bowl guard	
Size	Connection	Condensate drain,	Condensate drain,
		manual rotary	fully automatic
		Part No. Type	Part No. Type
Without co	onnecting plates		
Mini	-	192563 LFMA-D-MINI	192566 LFMA-D-MINI-A
Midi	-	192564 LFMA-D-MIDI	192567 LFMA-D-MIDI-A
Maxi	-	192565 LFMA-D-MAXI	192568 LFMA-D-MAXI-A
Connectin	g plates with connecting	; thread	
Mini	G1⁄8	162642 LFMA-1/8-D-MINI	162650 LFMA-1/8-D-MINI-A
	G1⁄4	162643 LFMA-1/4-D-MINI	162651 LFMA-1/4-D-MINI-A
	G3⁄8	162644 LFMA-3/8-D-MINI	162652 LFMA-3/8-D-MINI-A
Midi	G1⁄4	186469 LFMA-1/4-D-MIDI	186470 LFMA-1/4-D-MIDI-A
	G3⁄8	162645 LFMA-3/8-D-MIDI	162653 LFMA-3/8-D-MIDI-A
	G1⁄2	162646 LFMA-1/2-D-MIDI	162654 LFMA-1/2-D-MIDI-A
	G3⁄4	162647 LFMA-3/4-D-MIDI	162655 LFMA-3/4-D-MIDI-A
Maxi	G1⁄2	186476 LFMA-1/2-D-MAXI	186475 LFMA-1⁄2-D-MAXI-A
	G3⁄4	162648 LFMA-3/4-D-MAXI	162656 LFMA-3/4-D-MAXI-A
	G1	162649 LFMA-1-D-MAXI	162657 LFMA-1-D-MAXI-A

Grade of f	iltration 1 μm, metal bov	vl guard	
Size	Connection	Condensate drain,	Condensate drain,
		manual rotary	fully automatic
		Part No. Type	Part No. Type
Without co	onnecting plates		
Mini	-	192569 LFMB-D-MINI	192572 LFMB-D-MINI-A
Midi	-	192570 LFMB-D-MIDI	192573 LFMB-D-MIDI-A
Maxi	-	192571 LFMB-D-MAXI	192574 LFMB-D-MAXI-A
Connectin	g plates with connecting	thread	
Mini	G ¹ /8	162626 LFMB-1/8-D-MINI	162634 LFMB-1/8-D-MINI-A
	G1⁄4	162627 LFMB-1/4-D-MINI	162635 LFMB-1/4-D-MINI-A
	G3⁄8	162628 LFMB-3/8-D-MINI	162636 LFMB-3/8-D-MINI-A
Midi	G1⁄4	186467 LFMB-1/4-D-MIDI	186468 LFMB-1/4-D-MIDI-A
	G3⁄8	162629 LFMB-3/8-D-MIDI	162637 LFMB-3/8-D-MIDI-A
	G1/2	162630 LFMB-1/2-D-MIDI	162638 LFMB-1/2-D-MIDI-A
	G3⁄4	162631 LFMB-3/4-D-MIDI	162639 LFMB-3⁄4-D-MIDI-A
Maxi	G1/2	186473 LFMB-1⁄2-D-MAXI	186474 LFMB-1/2-D-MAXI-A
	G3⁄4	162632 LFMB-3/4-D-MAXI	162640 LFMB-34-D-MAXI-A
	G1	162633 LFMB-1-D-MAXI	162641 LFMB-1-D-MAXI-A

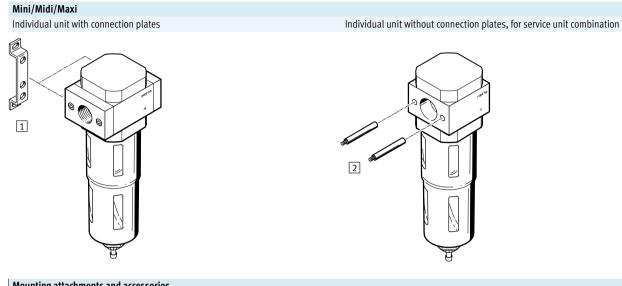
Ordering data – Micro filter LFMA with differential pressure indicator DA

	filtration 0.01 µm, metal		
Size	Connection	Condensate drain,	Condensate drain,
		manual rotary	fully automatic
		Part No. Type	Part No. Type
Without c	onnecting plates		
Mini	-	532837 LFMA-D-MINI-DA	532840 LFMA-D-MINI-DA-A
Midi	-	532838 LFMA-D-MIDI-DA	532841 LFMA-D-MIDI-DA-A
Maxi	-	532839 LFMA-D-MAXI-DA	532842 LFMA-D-MAXI-DA-A
Connectin	ng plates with connecting	thread	
Mini	G1⁄8	532843 LFMA-1/8-D-MINI-DA	532853 LFMA-1/8-D-MINI-DA-A
	G1⁄4	532844 LFMA-1/4-D-MINI-DA	532854 LFMA-1/4-D-MINI-DA-A
	G3⁄8	532845 LFMA-3/8-D-MINI-DA	532855 LFMA-3/8-D-MINI-DA-A
Midi	G1⁄4	532846 LFMA-1/4-D-MIDI-DA	532856 LFMA-1/4-D-MIDI-DA-A
	G3⁄8	532847 LFMA-3/8-D-MIDI-DA	532857 LFMA-3/8-D-MIDI-DA-A
	G1/2	532848 LFMA-1/2-D-MIDI-DA	532858 LFMA-1⁄2-D-MIDI-DA-A
	G3⁄4	532849 LFMA-3/4-D-MIDI-DA	532859 LFMA-3/4-D-MIDI-DA-A
Maxi	G1⁄2	532850 LFMA-1/2-D-MAXI-DA	532860 LFMA-1⁄2-D-MAXI-DA-A
	G3⁄4	532851 LFMA-3/4-D-MAXI-DA	532861 LFMA-3/4-D-MAXI-DA-A
	G1	532852 LFMA-1-D-MAXI-DA	532862 LFMA-1-D-MAXI-DA-A

Ordering data – Fine filter LFMB with differential pressure indicator DA

Grade of f	filtration 1 µm, metal bov	wl guard	
		5	Condensate desig
Size	Connection	Condensate drain,	Condensate drain,
		manual rotary	fully automatic
		Part No. Type	Part No. Type
Without co	onnecting plates		
Mini	-	532811 LFMB-D-MINI-DA	532814 LFMB-D-MINI-DA-A
Midi	-	532812 LFMB-D-MIDI-DA	532815 LFMB-D-MIDI-DA-A
Maxi	-	532813 LFMB-D-MAXI-DA	532816 LFMB-D-MAXI-DA-A
Connectin	ng plates with connecting	; thread	
Mini	G1⁄8	532817 LFMB-1/8-D-MINI-DA	532827 LFMB-1⁄8-D-MINI-DA-A
	G1⁄4	532818 LFMB-1/4-D-MINI-DA	532828 LFMB-1/4-D-MINI-DA-A
	G3⁄8	532819 LFMB-3/8-D-MINI-DA	532829 LFMB-3/8-D-MINI-DA-A
Midi	G1⁄4	532820 LFMB-1/4-D-MIDI-DA	532830 LFMB-1⁄4-D-MIDI-DA-A
	G3⁄8	532821 LFMB-3/8-D-MIDI-DA	532831 LFMB-3/8-D-MIDI-DA-A
	G1/2	532822 LFMB-1/2-D-MIDI-DA	532832 LFMB-1⁄2-D-MIDI-DA-A
	G3⁄4	532823 LFMB-¾-D-MIDI-DA	532833 LFMB-¾-D-MIDI-DA-A
Maxi	G1⁄2	532824 LFMB-1/2-D-MAXI-DA	532834 LFMB-1/2-D-MAXI-DA-A
	G3⁄4	532825 LFMB-¾-D-MAXI-DA	532835 LFMB-¾-D-MAXI-DA-A
	G1	532826 LFMB-1-D-MAXI-DA	532836 LFMB-1-D-MAXI-DA-A

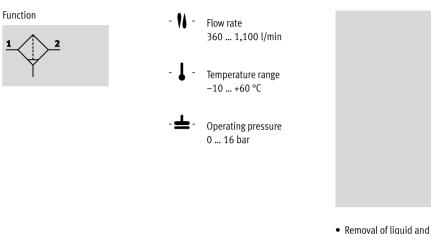
Active carbon filters LFX, D series, metal design Peripherals overview



Mounting attachments and accessories						
	Individual unit		Combination		→ Page/	
	with connection	without connection	with connection	without connection	Internet	
	plates	plates	plates	plates		
1 Mounting bracket	_		-		hfoe-d	
HFOE	-	-	-	-		
2 Threaded pin (included in scope of delivery)				-	frb-d	
FRB	-	-	-	-		

	[LFX	_	1/4	 D] – [MIDI
Pacie f	unction						
LFX	Activated carbon filter						
Pneum	atic connection						
MINI/N	NIDI/MAXI						
	Without connecting plates						
MINI							
1⁄8	Connecting plates with connecting thread G1/8						
1/4	Connecting plates with connecting thread G ¹ ⁄ ₄						
3⁄8	Connecting plates with connecting thread G3/8						
MIDI							
1/4	Connecting plates with connecting thread G1⁄4						
3⁄8	Connecting plates with connecting thread G3/8						
1/2	Connecting plates with connecting thread G ¹ /2						
3⁄4	Connecting plates with connecting thread G ³ / ₄						
MAXI							
1/2	Connecting plates with connecting thread G ¹ /2						
3⁄4	Connecting plates with connecting thread G3⁄4						
1	Connecting plates with connecting thread G1						
Series							
D	Series					-	
	· ·						
Size							
MINI	Grid dimension 40 mm (without connecting plate						
MIDI	Grid dimension 55 mm (without connecting plate						
MAXI	Grid dimension 66 mm (without connecting plat	es)					

Technical data



- Removal of liquid and gaseous oil particles from compressed air using activated carbon
- Activated carbon filter cartridges provide odour and oil-free air to food industry standard
- With or without connecting plates
- Prefiltration down to a particle size of 0.01 µm is recommended
- New filter cartridges → 37

General technical data								
Size	Mini	Midi	Maxi					
Pneumatic connection 1, 2 ¹⁾	G ¹ /8, G ¹ /4, G ³ /8, - ²)	G ¹ /4, G ³ /8, G ¹ /2, G ³ /4, - ²)	G ¹ /2, G ³ /4, G1, - ²⁾					
Design	Fibre filter (filter fabric made of activate	ore filter (filter fabric made of activated carbon)						
Type of mounting	Via accessories							
	In-line installation							
Mounting position	Vertical ±5°							
Air purity class at the output	Compressed air according to ISO 8573-1:2010 [1:4:1]							
	Inert gases							
Bowl guard	Metal bowl guard							
Residual oil content [mg/m ³]	≤0.003							

1) Connecting plates with connecting thread

2)

Without connecting plates.
 Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard flow rate qn¹⁾ [l/min] Size Mini Midi Maxi Max. standard flow rate for air purity 360 900 1,100 class q_{n max}

1) Measured at p1 = 6 bar.

Operating and environmental conditions

operating and environment		13
Operating pressure [bar]		016
Operating medium		Compressed air according to ISO 8573-1:2010 [1:4:2]
		Inert gases
Ambient temperature	[°C]	-10 +60
Temperature of medium	[°C]	+5 +30
Storage temperature	[°C]	-10 +60
Corrosion resistance class CRC ¹⁾		2

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

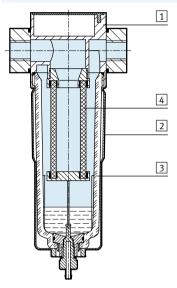
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Technical data

Weight [g]								
Size	Mini	Midi	Maxi					
With connecting plates	376	816	1,191					
Without connecting plates	283	600	921					

Materials

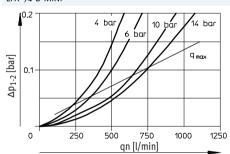
Sectional view



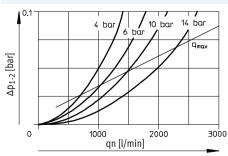
Activated carbon filter

1 Housing	Die-cast zinc					
2 Bowl	PC					
3 Metal bowl guard	Aluminium					
4 Filter	Filter fabric made of activated					
	carbon					
– Seals	NBR					
Note on materials	RoHS-compliant					
	Free of copper and PTFE					

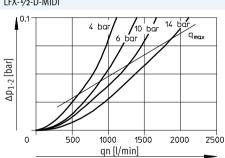
Standard flow rate qn as a function of differential pressure $\Delta p1-2$ LFX-1/4-D-MINI



LFX-1-D-MAXI

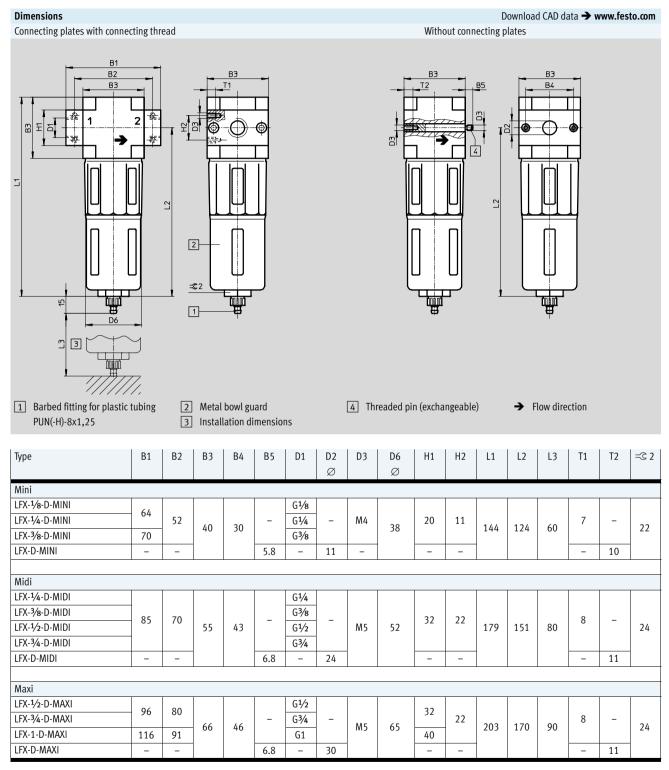


LFX-1/2-D-MIDI



FESTO

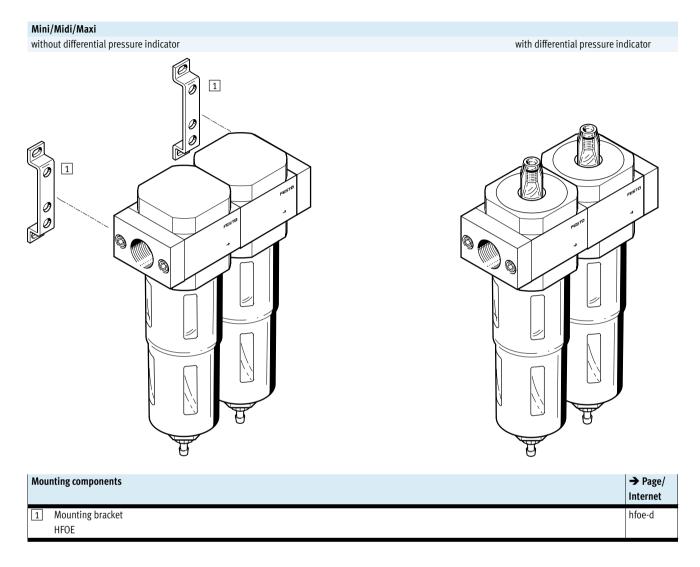
Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering	data		
Size	Connection	Part No.	Туре
Without co	onnecting plates		
Mini	-	532776	LFX-D-MINI
Midi	-	532777	LFX-D-MIDI
Maxi	-	532778	LFX-D-MAXI
Connectin	g plates with connecting	thread	
Mini	G1⁄8	532779	LFX-1/8-D-MINI
	G1⁄4	532802	LFX-1/4-D-MINI
	G3⁄8	532780	LFX-3/8-D-MINI
Midi	G1⁄4	532781	LFX-¼-D-MIDI
	G3⁄8	532782	LFX-¾-D-MIDI
	G1⁄2	532783	LFX-1/2-D-MIDI
	G3⁄4	532784	LFX-¾-D-MIDI
Maxi	G1⁄2	532785	LFX-1/2-D-MAXI
	G3⁄4	532786	LFX-¾-D-MAXI
	G1	532787	LFX-1-D-MAXI

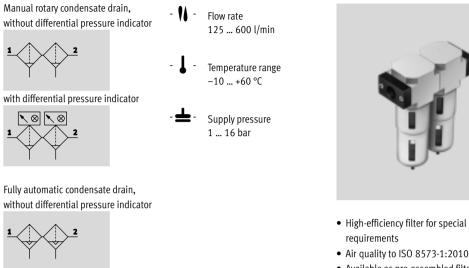
Filter combinations LFMBA, D series, metal design Peripherals overview



	LFMBA]-[1/4]-[D		MIDI	-	DA] – [А	
inction												
Filter combination												
atic connection												
				_								
Connecting plates with connecting thread G1/8												
Connecting plates with connecting thread G1/4												
Connecting plates with connecting thread G3/8												
Connecting plates with connecting thread G ¹ / ₄												
Connecting plates with connecting thread G3/4												
Connecting plates with connecting thread 61/2												
Series						_						
Grid dimension 40 mm (without connecting pla	tes)							1				
Grid dimension 60 mm (without connecting pla	tes)											
ontamination sensing												
Without differential pressure indicator										1		
With differential pressure indicator												
sate drain												
sate drain Manual rotary												
	atic connection Connecting plates with connecting thread G1/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G3/2 Connecting plates with connecting thread G3/4 Connec	Junction Filter combination atic connection Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/2 Grid dimension 40 mm (without	Inction Filter combination atic connection Connecting plates with connecting thread G1/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/2 Connecting plates with connecting thread G1 Series Grid dimension 40 mm (without connecting plates) Grid dimension 55 mm (without connecting plates) Grid dimension 60 mm (without connecting plates) Grid dimension 60 mm (without connecting plates) Mithout differential pressure indicator	Inction Filter combination atic connection Connecting plates with connecting thread G1/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/2 Connecting plates with connecting thread G1 Series Series Grid dimension 40 mm (without connecting plates) Grid dimension 55 mm (without connecting plates) Grid dimension 60 mm (without connecting plates) Ortamination sensing Without differential pressure indicator	Inction Filter combination atic connection Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/8 Connecting plates with connecting thread G3/4 Connecting plates with connecting plates) Grid dimension 40 mm (without conn	Inction Filter combination Filter combination Connecting plates with connecting thread 61/8 Connecting plates with connecting thread 61/4 Connecting plates with connecting thread 63/8 Connecting plates with connecting thread 63/4 Connecting plates with connecting plates) Series	Inction Filter combination Filter combination Connecting plates with connecting thread G1/4 Connecting plates with connecting thread G3/4 Connecting plates with	Inction Filter combination atic connection Connecting plates with connecting thread 61/8 Connecting plates with connecting thread 63/8 Connecting plates with connecting thread 63/4 Connecting plates with connecting plates) Series	Inction Filter combination atic connection Connecting plates with connecting thread 61/4 Connecting plates with connecting thread 63/4 Connecting plates with connecting plates) Grid dimension 40 mm (without connecting plates) Grid dimension 60 mm (without connecting plates) mtamination sensing Without differential pressure indicator	Inction Filter combination Filter combination Connecting plates with connecting thread 61/a Connecting plates with connecting thread 63/a Connecting plates with connecting plates) Series Serie	Inction Filter combination Filter combination Connecting plates with connecting thread 61/4 Connecting plates with connecting thread 63/4 Connecting plates with connecting plates) Fid dimension 40 mm (without connecting plates) Fid dimension 60 mm (without connectin	Inction If Iter combination If Iter combinatio

FESTO

Technical data



with differential pressure indicator



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General technical data							
Size		Mini	Midi	Maxi			
Pneumatic connection 1, 2 ¹⁾		G1⁄8, G1⁄4, G3⁄8	G1⁄4, G3⁄8, G1⁄2, G3⁄4	G¹⁄2, G³⁄4, G1			
Design		Fibre filter					
Type of mounting		Via accessories					
		In-line installation					
Mounting position		Vertical ±5°					
Grade of filtration	[µm]	1 and 0.01					
Air purity class at the output	Air purity class at the output		Compressed air according to ISO 8573-1:2010 [1:7:2]				
		Inert gases					
Filter efficiency	[%]	99.9999					
Bowl guard		Metal bowl guard					
Condensate drain		Manual rotary					
		Fully automatic					
Differential pressure indicator		Visual indicator					
Residual oil content	[mg/m ³]	≤0.01					
Max. condensate volume	[ml]	22	43	80			

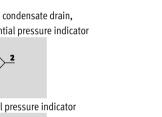
1) Connecting plates with connecting thread

Note: This product conforms to ISO 1179-1 and to ISO 228-1

Standard nominal flow rate¹⁾ gnN [l/min]

Size	Mini		Midi			Maxi				
Pneumatic connection 1, 2	G1⁄8	G1⁄4	G3⁄8	G1⁄4	G3⁄8	G1⁄2	G¾	G1⁄2	G3⁄4	G1
LFMBA	125	130	140	300	350	350	350	550	550	600

1) Measured at p1 = 6 bar and Δp = 70 mbar. A minimum flow rate of 125 l/min is required for correct operation.





- Air quality to ISO 8573-1:2010
- Available as pre-assembled filter combination
- Version with differential pressure indicator for optical indication of filter contamination
- Filter cartridges with 1 µm and 0.01 µm
- New filter cartridges → 37

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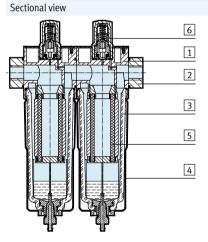
Operating and environmental conditions				
Condensate drain		Manual rotary	Fully automatic	
Operating pressure	[bar]	1 16	2 12	
Operating medium		Compressed air according to ISO 8573-1:2010 [6:8:4]		
		Inert gases		
Ambient temperature	[°C]	-10 +60	+5 +60	
Temperature of medium	[°C]	+1.5 +60	+5 +60	
Storage temperature [°C]		-10 +60		
Corrosion resistance class CRC ¹⁾		2		

1)

Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmo-sphere typical for industrial applications.

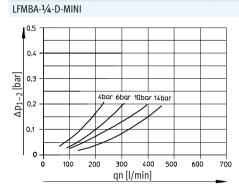
Weight [g]					
Size	Mini	Midi	Maxi		
Without differential pressure indicator	500	1,300	2,400		
With differential pressure indicator	651	1,429	2,362		

Materials

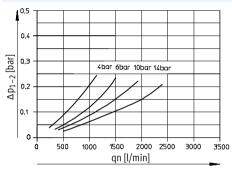


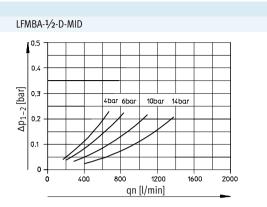
Filte	Filter combination				
1	Housing	Die-cast zinc			
2	Connecting plates	Die-cast zinc			
3	Bowl	PC			
4	Metal bowl guard	Aluminium			
5	Filter	Borosilicate fibre			
6	Housing for version with	PC			
	differential pressure indicator				
-	Seals	NBR			
Note	on materials	RoHS-compliant			
		Free of copper and PTFE			

Standard flow rate qn as a function of differential pressure $\Delta p1{-}2$



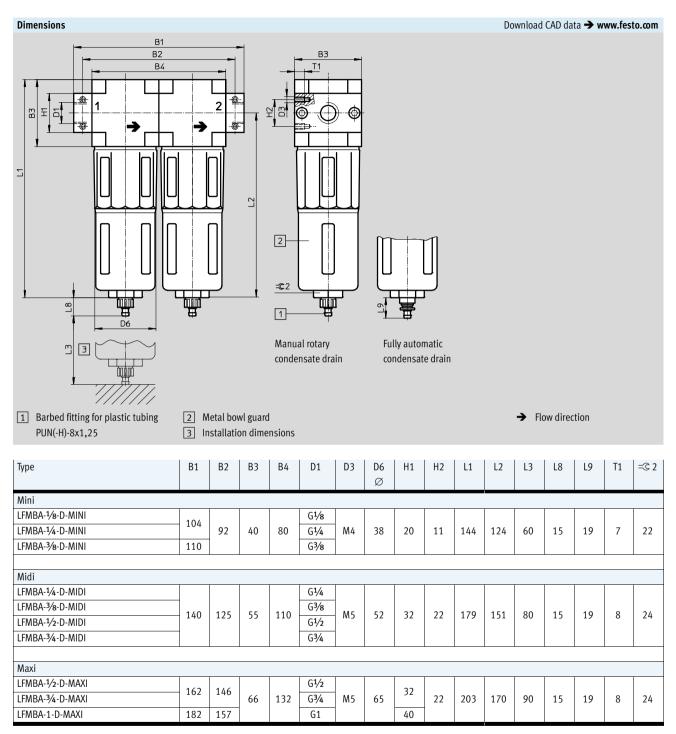
LFMBA-1-D-MAXI





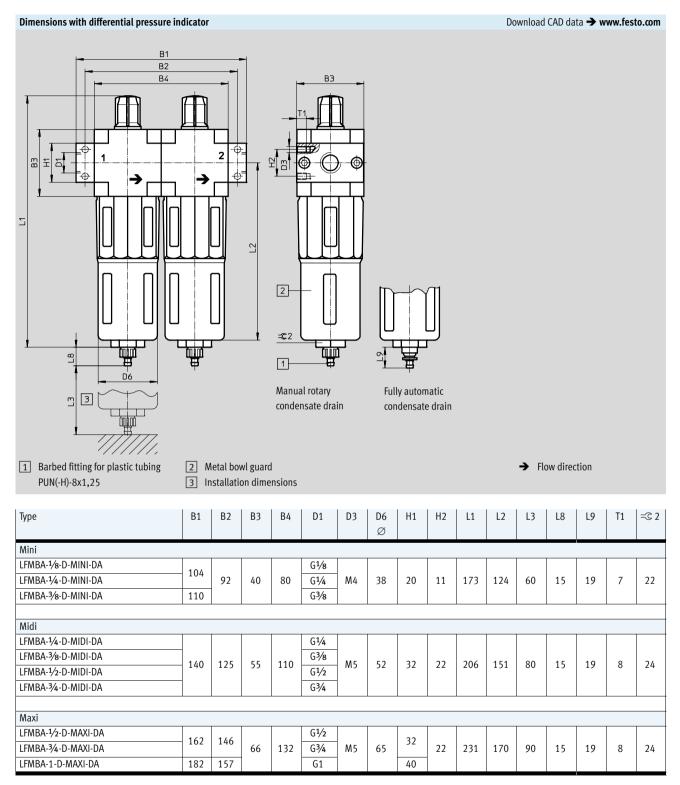
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Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Technical data



Note: This product conforms to ISO 1179-1 and to ISO 228-1

Ordering	Ordering data – Filter combination LFMBA					
Size	Connection	Condensate drain, manual rotary Part No. Type	Condensate drain, fully automatic Part No. Type			
Mini	G1/8 G1/4 G3/8	162658 LFMBA-1/8-D-MINI 162659 LFMBA-1/4-D-MINI 162660 LFMBA-3/8-D-MINI	162666 LFMBA-1/8-D-MINI-A 162667 LFMBA-1/4-D-MINI-A 162668 LFMBA-3/8-D-MINI-A			
Midi	G ¹ /4 G ³ /8 G ¹ /2 G ³ /4	186471 LFMBA-1/4-D-MIDI 162661 LFMBA-3/8-D-MIDI 162662 LFMBA-1/2-D-MIDI 162663 LFMBA-3/4-D-MIDI	186472 LFMBA-1/4-D-MIDI-A 162669 LFMBA-3/8-D-MIDI-A 162670 LFMBA-1/2-D-MIDI-A 162671 LFMBA-3/4-D-MIDI-A			
Maxi	G ¹ /2 G ³ /4 G1	186477 LFMBA-1/2-D-MAXI 162664 LFMBA-3/4-D-MAXI 162665 LFMBA-1-D-MAXI	186478 LFMBA-1/2-D-MAXI-A 162672 LFMBA-3/4-D-MAXI-A 162673 LFMBA-1-D-MAXI-A			

Ordering data – Filter combination LFMBA with differential pressure indicator DA

Size	Connection	Condensate drain,	Condensate drain,
		manual rotary	fully automatic
		Part No. Type	Part No. Type
Mini	G1⁄8	532863 LFMBA-1/8-D-MINI-DA	532873 LFMBA-1/8-D-MINI-DA-A
	G1⁄4	532864 LFMBA-1/4-D-MINI-DA	532874 LFMBA-1/4-D-MINI-DA-A
	G3⁄8	532865 LFMBA-3/8-D-MINI-DA	532875 LFMBA-3/8-D-MINI-DA-A
Midi	G1⁄4	532866 LFMBA-1/4-D-MIDI-DA	532876 LFMBA-1/4-D-MIDI-DA-A
	G3⁄8	532867 LFMBA-3/8-D-MIDI-DA	532877 LFMBA-3/8-D-MIDI-DA-A
	G1⁄2	532868 LFMBA-1/2-D-MIDI-DA	532878 LFMBA-1/2-D-MIDI-DA-A
	G3⁄4	532869 LFMBA-¾-D-MIDI-DA	532879 LFMBA-¾-D-MIDI-DA-A
Maxi	G1⁄2	532870 LFMBA-1/2-D-MAXI-DA	532880 LFMBA-1/2-D-MAXI-DA-A
	G3⁄4	532871 LFMBA-¾-D-MAXI-DA	532881 LFMBA-3/4-D-MAXI-DA-A
	G1	532872 LFMBA-1-D-MAXI-DA	532882 LFMBA-1-D-MAXI-DA-A

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Filters LF/LFMA/LFMB/LFX/LFMBA, D series, metal design

Filter cartridges, D series, metal design





MS4/D-...-LFM, LFMAP, LFMBP



Ordering of	lata		
Size	Filter cartridge	Grade of filtration [μm]	Part No. Type
Micro	Filter cartridge	5	526818 LFP-D-MICRO-5M
Mini	Micro-filter cartridge	0.01	162674 MS4/D-MINI-LFM-A
	Fine-filter cartridge	1	162677 MS4/D-MINI-LFM-B
	Filter cartridge (colour: blue)	5	159640 LFP-D-MINI-5M
	Filter cartridge (colour: white)	40	363665 LFP-D-MINI-40M
	Active carbon filter cartridge	-	532912 MS4/D-MINI-LFX
Midi	Micro-filter cartridge	0.01	162675 LFMAP-D-MIDI
	Fine-filter cartridge	1	162678 LFMBP-D-MIDI
	Filter cartridge (colour: blue)	5	159594 LFP-D-MIDI-5M
	Filter cartridge (colour: white)	40	363667 LFP-D-MIDI-40M
	Active carbon filter cartridge	-	532788 LFACP-MIDI
Maxi	Micro-filter cartridge	0.01	162676 LFMAP-D-MAXI
	Fine-filter cartridge	1	162679 LFMBP-D-MAXI
	Filter cartridge (colour: blue)	5	159641 LFP-D-MAXI-5M
	Filter cartridge (colour: white)	40	363664 LFP-D-MAXI-40M
	Active carbon filter cartridge	-	532789 LFACP-MAXI