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		I	I	I	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		Midi	-	-	-					-	-	-	-	-	-			-	-
	Ŷ	Maxi	-	-	-	-	-				-	-	-	-	-			-	-
Active carbon		Micro	-	-											-				
filters		Mini	-	-				-	-	-	-	-	-	-	-	-	-	-	-
LFX		Midi	-	-	-					١	-	-	-	-	-	-	Ι	-	-
	Ŷ	Maxi	-	-	-	-	-				-	-	-	-	-	-	-	-	-
Filter		Micro	-	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	rain	Pressu indica		Actual	or lock	Supply	y voltage	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	1	1	1	1	1	1	1		1
Service unit cor	nbination	IS															
FRC-K	Micro	-															frc
	Mini		-		-			-		-		-	-	-	-	-	
	Midi		-		-			-		-		-	-	-	-	-	1
	Maxi		-		-			-		-		-	-			-	
LFR-K	Micro	-			1		1			1							lfr
LFRS-K	Mini		-		-			-				-	-	-	-	-	-
	Midi		-		_			_				_	-	-	-	_	-
	Maxi		-		-			_				-	-			-	-
Individual devi	ces																
Filter	Micro	-				-				-	-	-	-	-	-	-	lfr
regulators	Mini		-		-						-	-	-	-	-	-	
LFR/LFRS	Midi		-		-						-	-	-	-	-	-	-
	Maxi		-		_						-	_	-			-	-
											I		I	1			I
Filters	Micro	-				-	-	-	-	-	-	-	-	-	-	-	6
LF	Mini		-		_		-	_	-	-	-	_	-	-	-	-	-
	Midi		-		-		-	_	-	-	-	-	-	_	-	-	1
	Maxi		-		-		-	_	-	-	-	-	-	_	-	-	-
Fine and micro	Micro	-	1	1	1	1	1	1	1	1	I	1	I	1			14
filters	Mini		-		-		_	_	-	-	-	-	-	-	-		-
LFMA/LFMB	Midi		-		-	-	-	_	-	-	-	_	-	_	_	-	1
	Maxi		_		-		_	_	_	-	_	_	_	_	_	-	-
Active carbon	Micro	-	1		1	-	1	1	1	1	I	1	I	1		-	23
filters	Mini	-	-	-	-	_	_	_	-	_	-	-	-	_	_	_	2.7
LFX	Midi		_	-	-	_	_	_	_	_	_	_	_	_	-	_	-
Filtor	Maxi		-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
Filter combinations	Micro	-		-		_			1					T	1	-	29
	Mini		-		-		-	-	-	-	-	-	-	-	-	-	-
LFMBA	Midi		-		-		-	-	-	-	-	-	-	-	-	-	-
	Maxi		-		-		-	-	-	-	-	-	-	-	-		
-			1		1	I	1		1	1	1	1	1	1	,		
Pressure	Micro	-	-	-	-	-				-	-	-	-	-	-	-	lr
regulators	Mini	-	-	-	-	-					-	-	-		-	-	-
	1	1	-	_	_	-					-	_	-		-	_	1
LR/LRS	Midi Maxi	-	_				-		-	_							-

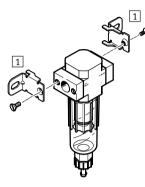
Туре		Size	Pneumat connecti										Pressure regulatio [bar]	
			M5	M7	G1⁄8	G1⁄4	G3⁄8	G1⁄2	G3⁄4	G1	QS4	QS6	0.5 7	0.5 12
Individual devic			MD	M7	078	U74	078	072	U 74	61	Q34	Q30	/	12
Pressure		Micro	-											
regulators		Mini	_		-		-	-	_	_	_	-		
LRB/LRBS		Midi	_	-		-	-	-	-	-	-	_	-	
	ST.			-	-		-	_	_	_	-			
Processo		Maxi	-											
Pressure		Micro	-		1	-	-	1	1		1	1		-
regulator		Mini	-	-	-			-	-	-	-	-		
combinations	000	Midi	-	-	-	-			-	-	-	-		
LRB-K		Maxi	-											
	1	1	1 .	-	-	1		1	1	1	-		1	1
Lubricators		Micro				-	-	-	-	-			-	-
LOE		Mini	-	-				-	-	-	-	-	-	-
		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
On-off valves	Ŕ	Micro	-											
HE		Mini	-	-				-	-	-	-	-	-	-
		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-	•			-	-	-	-
On-off valves,	19	Micro	-											
electrical		Mini	-	-				-	-	-	-	-	-	-
HEE		Midi	-	-	-					-	-	-	_	_
	No las	Maxi	-	_	-	-	-				-	-	_	_
On-off valves,		Micro	-					_	-					
pneumatic		Mini	_	_				_	_	_	_	-	_	
•													-	-
HEP		Midi	-	-	-					-	-	-	-	-
<u> </u>		Maxi	-	-	-	-	-				-	-	-	-
Soft-start		Micro	-				_	1	1		1	1	T	
valves		Mini	-	-				-	-	-	-	-	-	-
HEL	U U	Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
	1		1											
Membrane air		Micro	-											
dryers		Mini	-											
LDM1		Midi	-											
		Maxi	-	-	-	-	-				-	-	-	-
Branching		Micro	-											
modules		Mini	-	-				-	-	-	-	-	-	-
FRM		Midi	-	-	-					-	-	-	-	-
		Maxi	-	-	-	-	-				-	-	-	-
Distributor	A	Micro	-	-	-	-	-	-	-	_	-	-	-	_
block		Mini	-	-	_	_	-	_	_	_	_	_	-	_
FRZ		Midi	_	_	_	_	_	_	_	_	_	_	_	_
i.		Maxi	-	-	-	-	-	-	-	-	-	-	-	-

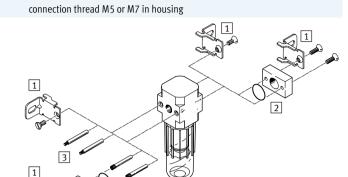
Туре	Size	Bowl guar	d	Pressure i	ndication	Actuator l	ock	Supply vo	ltage		Options		→ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Non-return function	Pressure switch	_
ndividual 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>	<u>.</u>		hel
alves	Mini	-	-	-		-	-	-	-	-	-	-	1
HEL	Midi	-	-	-		-	-	-	-	-	-	-	1
	Maxi	-	-	-		-	-	-	-	-	-	-	1
								ŭ.			- L		
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

Filters LF, D series, metal design Peripherals overview

Micro

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



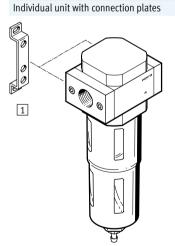


2

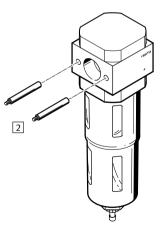
Individual unit without connection plates, for service unit combination

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

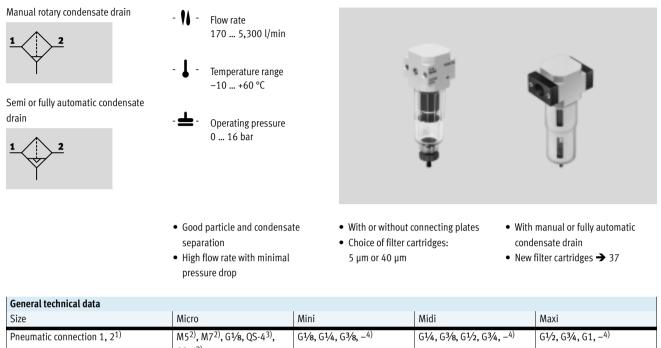
	Individual unit		Combination		→ Page/
	with connection	without connection	with connection	without connection	Internet
	plates	plates	plates	plates	
1 Mounting bracket		_		_	hfoe-d
HFOE		_	-	_	
2 Threaded pin (included in scope of delivery)				-	frb-d
FRB	-	-			

Basic fu	inction
LF	Filter
Pneum	atic connection
MINI/M	IDI/MAXI
	Without connecting plates
MICRO	
M5	Connecting thread M5 in housing
M7	Connecting thread M7 in housing
1/8	Connecting plates with connecting thread G1/8
QS4	Connecting plates with push-in connector QS-4
QS6	Connecting plates with push-in connector QS-6
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 G ³ /8
, -	0,,
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 G ³ / 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
5	
Grade o	filtration
5M	5 μm
MINI/M	IDI/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
Conden	sate drain
	Manual rotary
	mandariotary
MICRO	
Н	Semi-automatic

MINI/MIDI/MAXI 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] (g	rade of filtration 5 µm)	
		-	Compressed air according	to ISO 8573-1:2010 [7:8:4] (gra	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 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 How rate of	InN 'Ly minj										
Size					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 condition	s			
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	Compressed air according to	Compressed air according to	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			
Maritime classification		See certificate (pneumatic cor	nnection G1⁄8 G1) ²⁾		

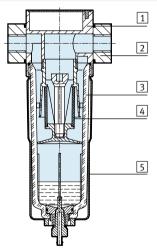
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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.
 Additional information www.festo.com/sp → Certificates.

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

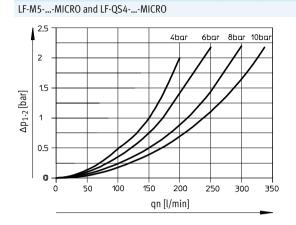
Sectional view



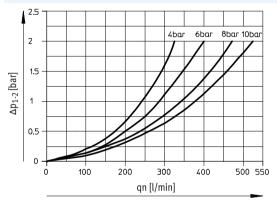
Filter	Micro	Mini/Midi/Maxi		
1 Housing	Wrought aluminium alloy	Die-cast zinc		
2 Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium		
3 Bowl	PC			
4 Filter cartridge	PE			
5 Metal bowl guard	-	Aluminium		
– Seals	NBR			
Note on materials RoHS-compliant				

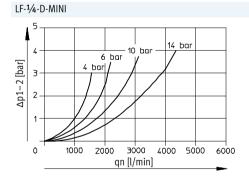
Filters LF, D series, metal design Technical data

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

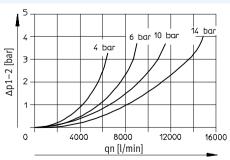


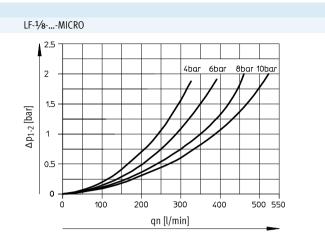
LF-M7-...-MICRO B and LF-QS6-...-MICRO

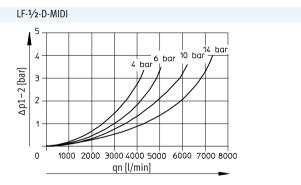


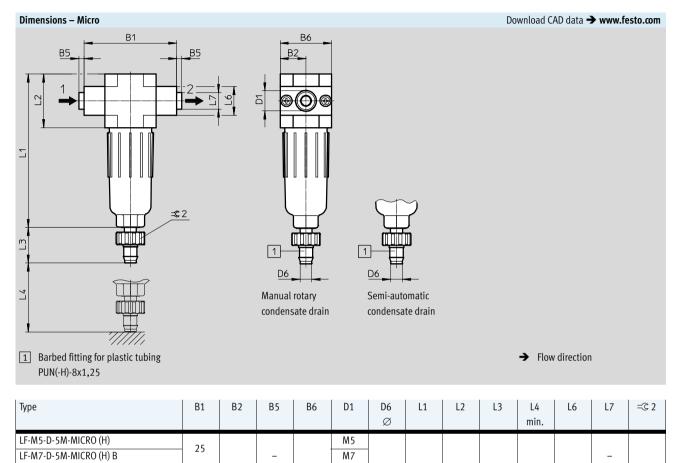


LF-1-D-MAXI









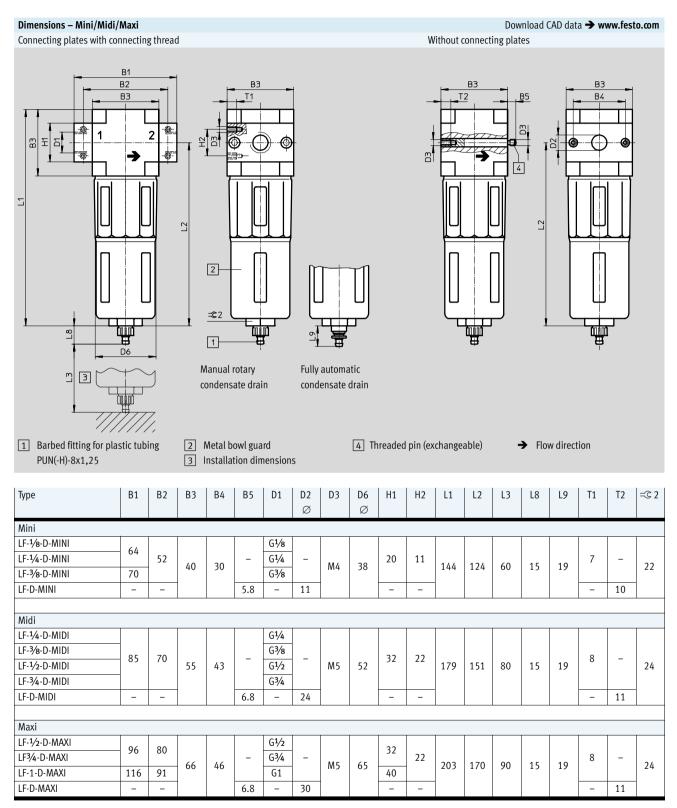
LF-1/8-D-5M-MICRO (H)		12.5		25	G1⁄8	5.6	74.5	26	~17.3	60	14	
LF-QS4-D-5M-MICRO (H)	45		~25		QS-4							~8
LF-QS6-D-5M-MICRO (H)			~2.5		QS-6							~10

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

.

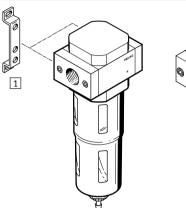
Ordering d	lata – Micro				
Size	Condensate drain	Connection	Grade of f	iltration 5 μm	
			Part No.	Туре	
Without co	onnecting plates, connecting	g thread in housing	ŗ		
Micro	Manual rotary	M5	526297	LF-M5-D-5M-MICRO	
		M7	534182	LF-M7-D-5M-MICRO-B	
	Semi-automatic	M5	526298	LF-M5-D-5M-MICRO-H	
		M7	534183	LF-M7-D-5M-MICRO-H-B	
Connecting	g plates with connecting thr	ead			
Micro	Manual rotary	G1⁄8	526299	LF-1/8-D-5M-MICRO	
	Semi-automatic	G1⁄8	526300	LF-1/8-D-5M-MICRO-H	
	g plates with push-in conne				
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	
_	lata – Mini/Midi/Maxi				
Size	Condensate drain	Connection		iltration 5 μm	Grade of filtration 40 µm
			Part No.	Туре	Part No. Type
	onnecting 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	and			
Mini	Manual rotary	G1/8	162610	LF-1/8-D-5M-MINI	159612 LF-1/8-D-MINI
WIIII	Manual Totaly	G ¹ /4	162611	LF-1/4-D-5M-MINI	159613 LF-1/4-D-MINI
		G ³ /8	162612	LF-3/8-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-1/4-D-5M-MINI-A	159617 LF-1/4-D-MINI-A
		G ³ /8	162620	LF-3/8-D-5M-MINI-A	162608 LF-3/8-D-MINI-A
Midi	Manual rotary	G ¹ ⁄4	186460	LF-1/4-D-5M-MIDI	186459 LF-1/4-D-MIDI
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G ³ /8	162613	LF-3/8-D-5M-MIDI	159576 LF-3/8-D-MIDI
		G ¹ /2	162614	LF-1/2-D-5M-MIDI	159578 LF-1/2-D-MIDI
		G ³ ⁄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
	-	G ³ /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-½-D-MIDI-A
		G3⁄4	162623	LF-¾-D-5M-MIDI-A	162609 LF-3/4-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-3/4-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-¾-D-5M-MAXI-A	159618 LF-¾-D-MAXI-A
		G1	162625	LF-1-D-5M-MAXI-A	159619 LF-1-D-MAXI-A

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

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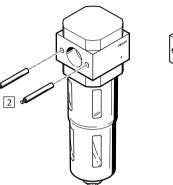
Mini/Midi/Maxi

Individual unit with connection plates without differential pressure indicator





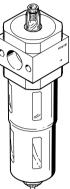
with differential pressure indicator



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 connectio		with connection without connecti		Internet
	plates	plates	plates	plates	
1 Mounting bracket	-	_		_	hfoe-d
HFOE	-	_	-	_	
2 Threaded pin (included in scope of delivery)				-	frb-d
FRB	-	-		-	

Subject to change - 2017/11

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	[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 μm									
Pneum	atic connection									
MINI/N	IIDI/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 G1/2									
3⁄4	Connecting plates with connecting thread G ³ ⁄ 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 plate	es)								
MIDI	Grid dimension 55 mm (without connecting plate									
MAXI	Grid dimension 66 mm (without connecting plate									
Filter c	ontamination sensing									
	Without differential pressure indicator					 			J	
DA	With differential pressure indicator									
Conder	ısate drain									
	Manual rotary									
A	Fully automatic									

M -

FESTO

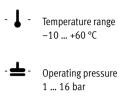
Technical data

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

with differential pressure indicator

Fully automatic condensate drain, without differential pressure indicator



General technical data

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		•				
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 8573-1:2010 [5:7:3] (fine filter LFMB)						
		Inert gases						
Filter efficiency	[%]	99.9999 (grade of filtration 0.01 μm, micro filter LFMA)						
		99.99 (grade of filtration 1 µm, fine filte	er LFMB)					
Bowl guard		Metal bowl guard						
Condensate drain		Manual rotary						
		Fully automatic						
Differential pressure indicato	r	Visual indicator						
Residual oil content	[mg/m³]	≤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

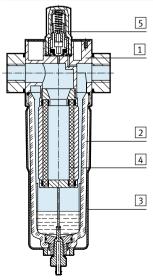
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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



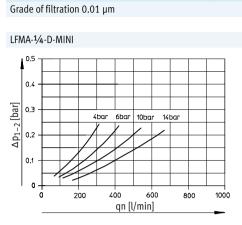


Fine	Fine and micro filters								
1	Housing	Die-cast zinc							
2	Bowl	PC							
3	Metal bowl guard	Aluminium							
4	Filter	Borosilicate fibre							
5	Housing for version with	PC							
	differential pressure indicator								
-	Seals	NBR							
Note	on materials	RoHS-compliant							
		Free of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

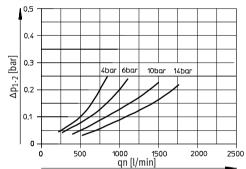
FESTO

Technical data

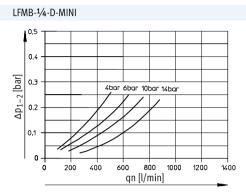




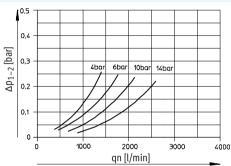
LFMA-1/2-D-MIDI



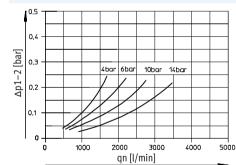
Grade of filtration 1 µm



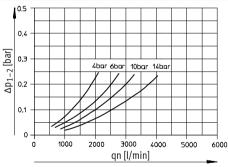




LFMA-1-D-MAXI

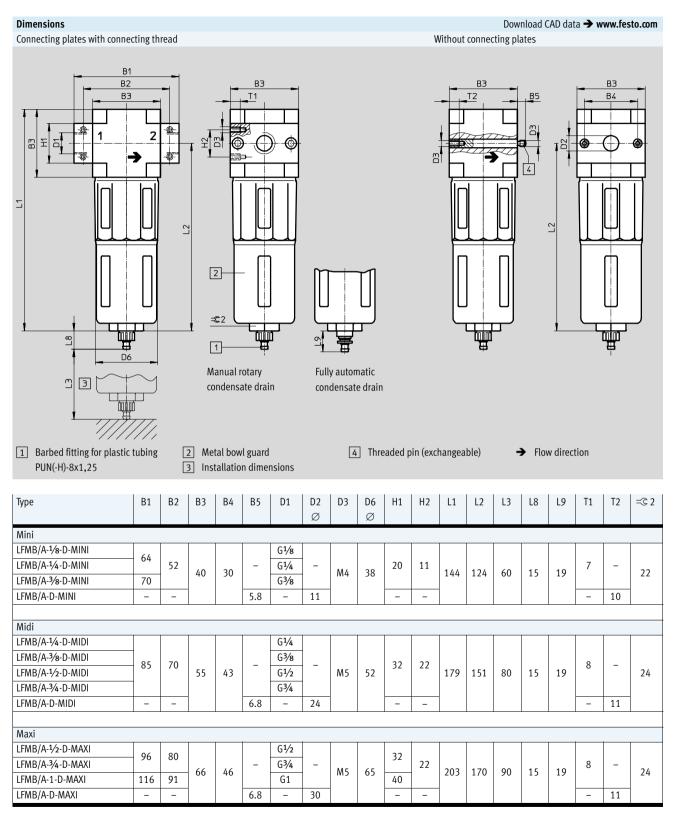


LFMB-1-D-MAXI



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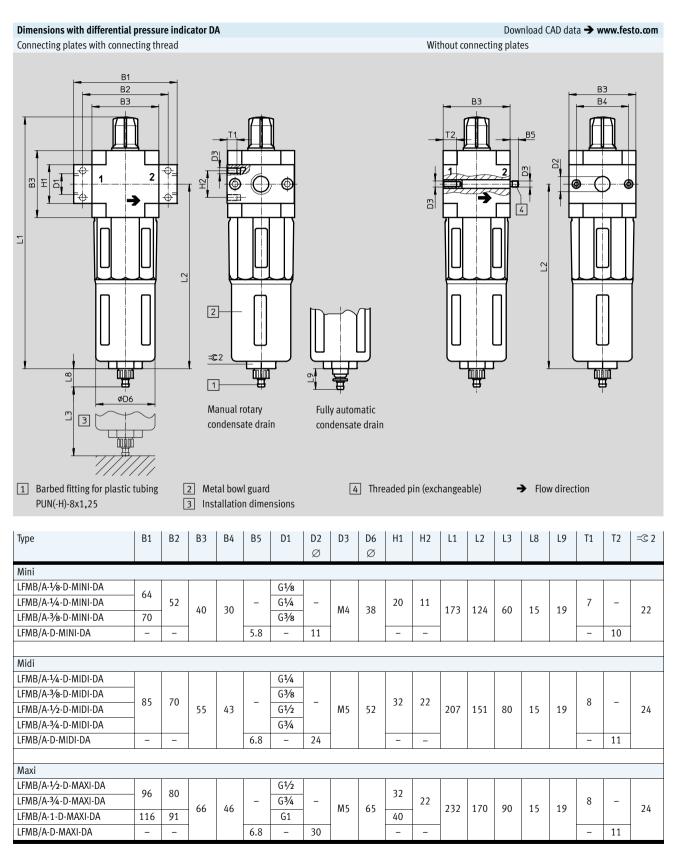
Technical data



♦ 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

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

Ordering data – Fine filter LFMB

orucinis			
Grade of f	iltration 1 μm, metal bowl g	uard	
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	ig plates with connecting thr	ead	
Mini	G1⁄8	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
	G¾	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-3/4-D-MAXI-A
	G1	162633 LFMB-1-D-MAXI	162641 LFMB-1-D-MAXI-A

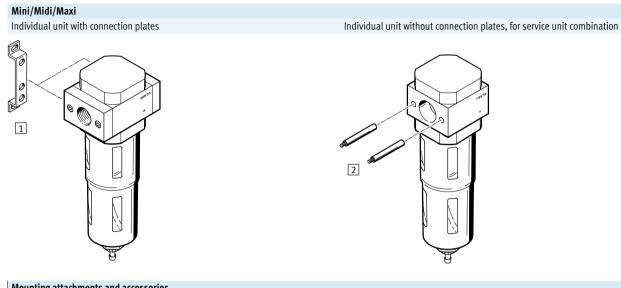
Ordering data – Micro filter LFMA with differential pressure indicator DA

	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

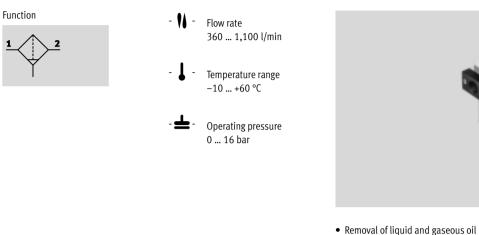
Active carbon filters LFX, D series, metal design Peripherals overview



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	-	-	•			

Basic fu	inction
LFX	Activated carbon filter
	atic connection
MINI/M	IDI/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 G ¹ ⁄ 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 G1/2
3⁄4	Connecting plates with connecting thread G3/4
1	Connecting plates with connecting thread G1
Series	
D	Series
	1
Size	
MINI	Grid dimension 40 mm (without connecting plate
MIDI	Grid dimension 55 mm (without connecting plate
MAXI	Grid dimension 66 mm (without connecting plate

Technical data



- 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	1	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 (filter fabric made of activated	pre filter (filter fabric made of activated carbon)						
Type of mounting	'	Via accessories							
		In-line installation							
Mounting position	1	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	;/m³] :	≤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] Mini Midi c:-

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

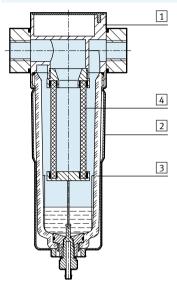
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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

Materials

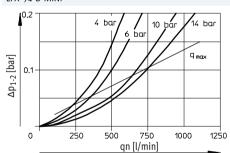
Sectional view



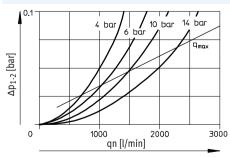
Activated carbon filter

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				

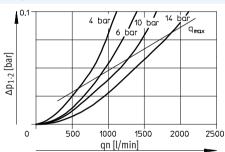
Standard flow rate qn as a function of differential pressure $\Delta p1-2$ LFX-1/4-D-MINI



LFX-1-D-MAXI

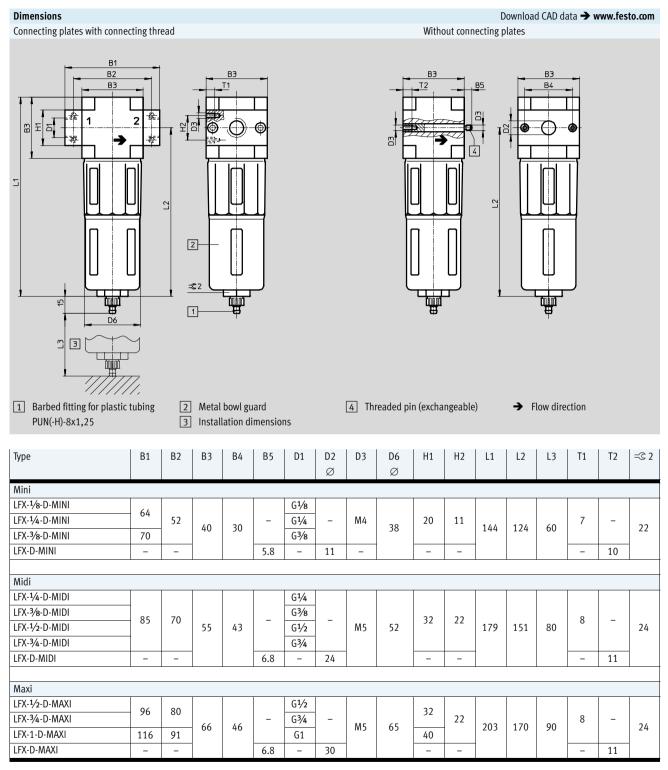


LFX-1/2-D-MIDI



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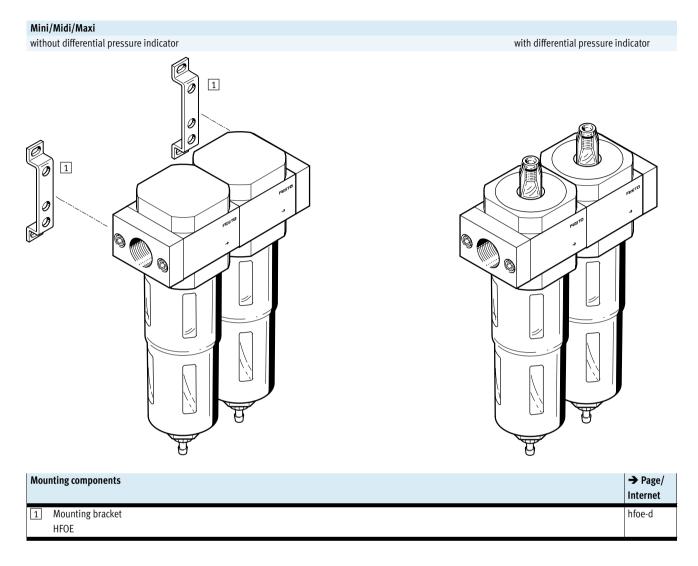
Technical data



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

Ordering	data			
Size	Connection	Part No.	Туре	
Without c	onnecting plates			
Mini	-	532776	LFX-D-MINI	
Midi	-	532777	LFX-D-MIDI	
Maxi	-	532778	LFX-D-MAXI	
		· · ·		
Connectin	ig 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-1/4-D-MIDI	
	G3⁄8	532782	LFX-3/8-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-3/4-D-MAXI	
	G1	532787	LFX-1-D-MAXI	

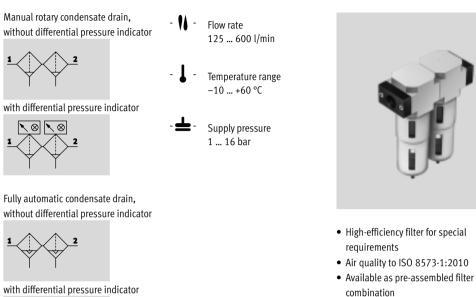
Filter combinations LFMBA, D series, metal design Peripherals overview



	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

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Technical data



- Version with differential pressure indicator for optical indication of filter contamination
- Filter cartridges with 1 µm and 0.01 µm
- New filter cartridges → 37



General technical data

General technical uata						
Size		Mini	Midi	Maxi		
Pneumatic connection 1, 2 ¹⁾		G ¹ /8, G ¹ /4, G ³ /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		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⁾ qnN [l/min]

Size	Mini			Midi			Maxi			
Pneumatic connection 1, 2	G1⁄/8	G1⁄4	G3⁄8	G1⁄4	G¾	G1⁄2	G¾	G1⁄2	G¾	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.



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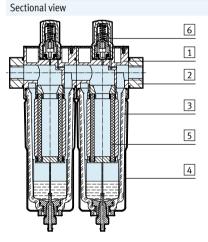
Operating and environmental conditions				
Condensate drain		Manual rotary	Fully automatic	
Operating pressure	[bar]	1 16	2 12	
Operating medium		Compressed air according to ISO 8573-1:2010 [6:8:4]		
		Inert gases		
Ambient temperature	[°C]	-10 +60	+5 +60	
Temperature of medium	[°C]	+1.5 +60	+5 +60	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

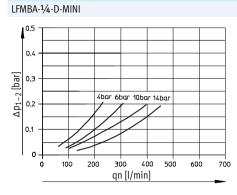
Weight [g]					
Size	Mini	Midi	Maxi		
Without differential pressure indicator	500	1,300	2,400		
With differential pressure indicator	651	1,429	2,362		

Materials

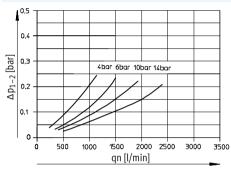


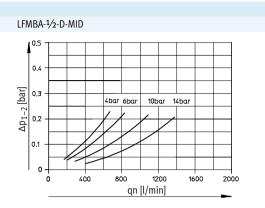
Filte	Filter combination				
1	Housing	Die-cast zinc			
2	Connecting plates	Die-cast zinc			
3	Bowl	PC			
4	Metal bowl guard	Aluminium			
5	Filter	Borosilicate fibre			
6	Housing for version with	PC			
	differential pressure indicator				
-	Seals	NBR			
Note	on materials	RoHS-compliant			
		Free of copper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

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



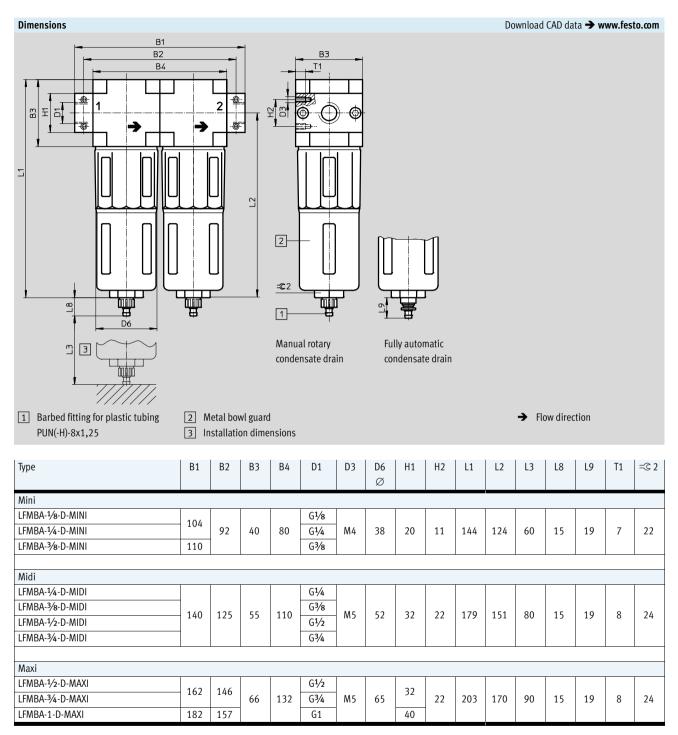
LFMBA-1-D-MAXI





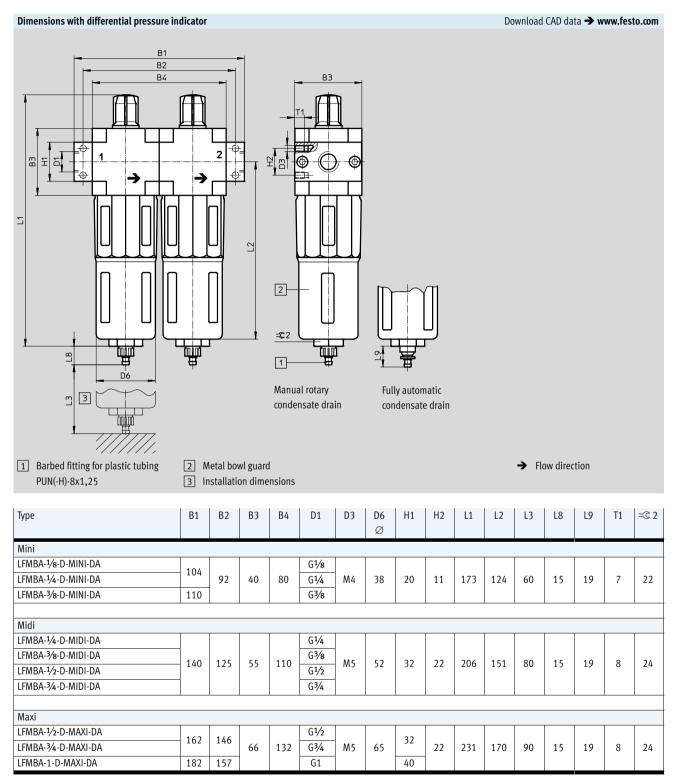
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Technical data



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%-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%-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-3/4-D-MIDI-DA	532879 LFMBA-3/4-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