

Active carbon filter MS12N-LFX

FESTO



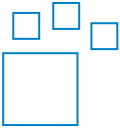
Characteristics

At a glance

- Removes liquid and gaseous oil particles from compressed air using activated carbon
- Eliminates odors and vapors
- Available with filter cartridge for low flow rates, suitable for sealing air and purge air applications
- Prefiltration with micro filter MS-LFM-A (grade of filtration 0.01 µm) is recommended
- Air quality class at the output [1.4.1] to ISO 8573-1

Ordering data - modular system

Link [ms12n-lfx](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Bowl type

Shell protection by means of integrated metal shell.

Type of mounting

[WP] Mounting bracket standard design



Mounting attachment and connector for air preparation unit combination or for individual device with port plates

Flow direction

Available with opposite flow direction.

Type code

001	Series	
MS	MS series	
002	Size	
12	Width dimension 124 mm	
003	Thread type	
N	NPT thread	
004	Function	
LFX	Active carbon filter	
005	Pneumatic connection	
N	without thread/alternatively NPT thread	
N1	1 NPT	
N114	1 1/4 NPT	
N112	1 1/2 NPT	
N2	2 NPT	

006	Bowl type	
U	Aluminum	
007	Flow rate	
	Standard	
HF	High flow rate	
008	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket standard design	
009	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

General technical data

Size	12
Design	Activated carbon filter
Type of mounting	Either: In-line installation With accessories
Mounting position	Vertical +/- 5°
Air purity class at output	Compressed air according to ISO 8573-1:2010 [3:4:1]
Bowl guard	Metal bowl
Residual oil content	0.003 mg/m ³

Standard nominal flow rate q_{nN}

Pneumatic connection, port 1	1 NPT	1 1/4 NPT	1 1/2 NPT	2 NPT
Max. standard flow rate for clean air class	5,056 l/min	7,090 l/min	11,150 l/min	15,190 l/min
Standard nominal flow rate (standardised to DIN 1343)	4,800 l/min	5,000 l/min	5,500 l/min	6,000 l/min

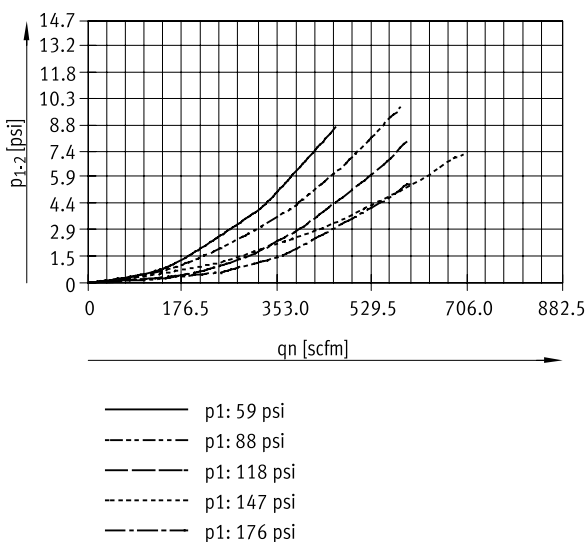
Operating and environmental conditions

Operating pressure	0 ... 20 bar
Operating medium	Compressed air according to ISO 8573-1:2010 [3:4:2] Inert gases
Ambient temperature	-10 ... 60°C
Media temperature	5 ... 30°C
Storage temperature	-10 ... 60°C
Corrosion resistance class CRC ¹⁾	2 - Moderate corrosion stress

1) More information www.festo.com/x/topic/crc

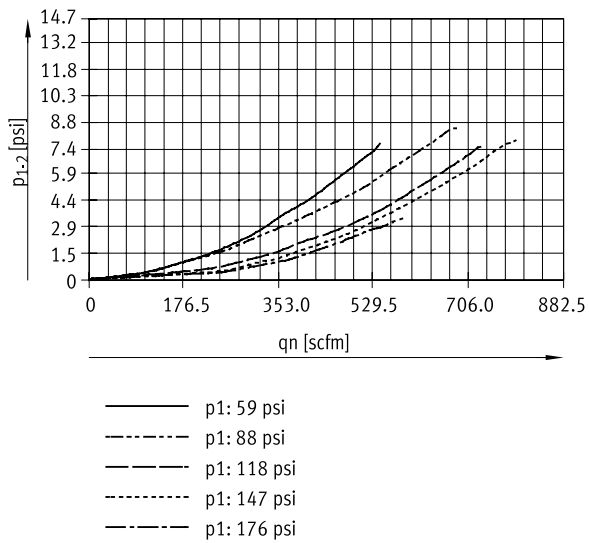
Materials

Material housing	Die-cast aluminium
Material bowl	Wrought aluminium alloy
Material sub-base	Wrought aluminium alloy
Material filter	Activated carbon
Material seals	NBR
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

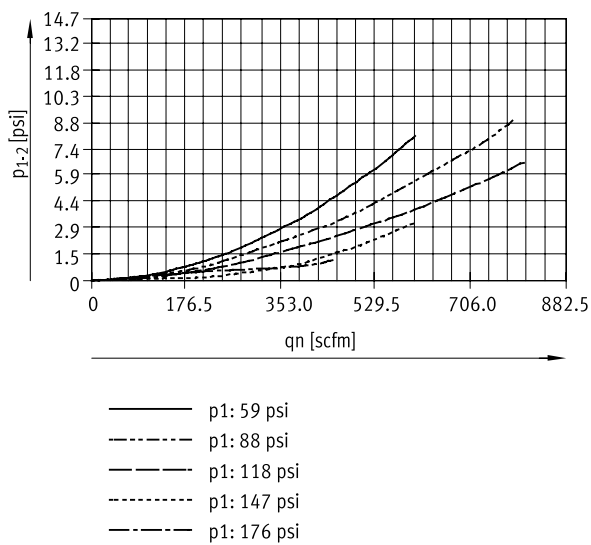
Standard flow rate q_n as a function of differential pressure Δp₁₋₂ (with connecting plate MS12-AQT, pneumatic connection 1 NPT)

Datasheet

Standard flow rate q_n as a function of differential pressure Δp_{1-2} (with connecting plate MS12-AGG, pneumatic connection G1 1/4)

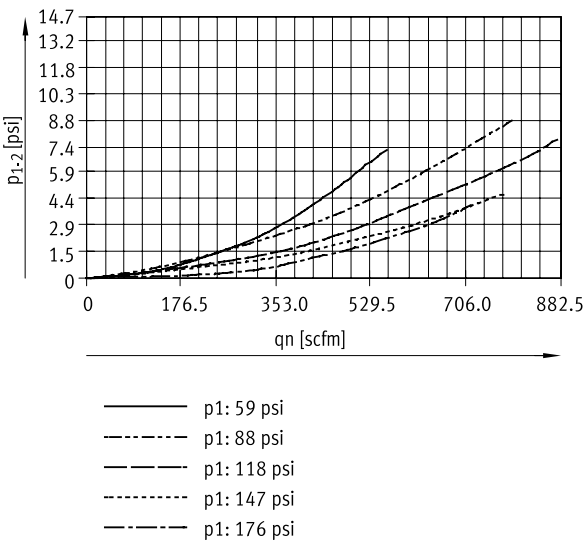


Standard flow rate q_n as a function of differential pressure Δp_{1-2} (with connecting plate MS12-AGH, pneumatic connection G1 1/2)



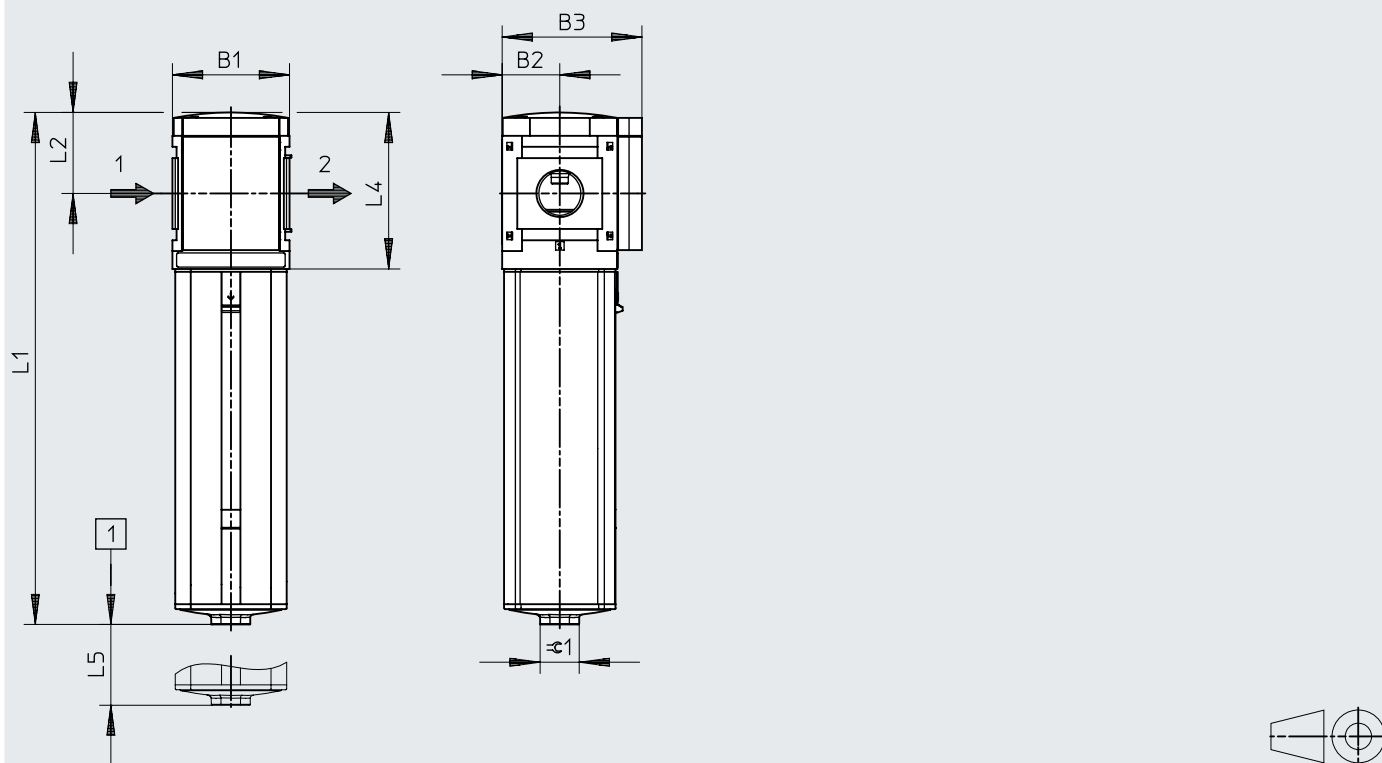
Datasheet

Standard flow rate q_n as a function of differential pressure Δp_{1-2} (with connecting plate MS12-AGI, pneumatic connection G2)



Dimensions

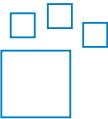
Dimensions – Basic type

[Download CAD data](http://www.festo.com)


[1] Installation dimension

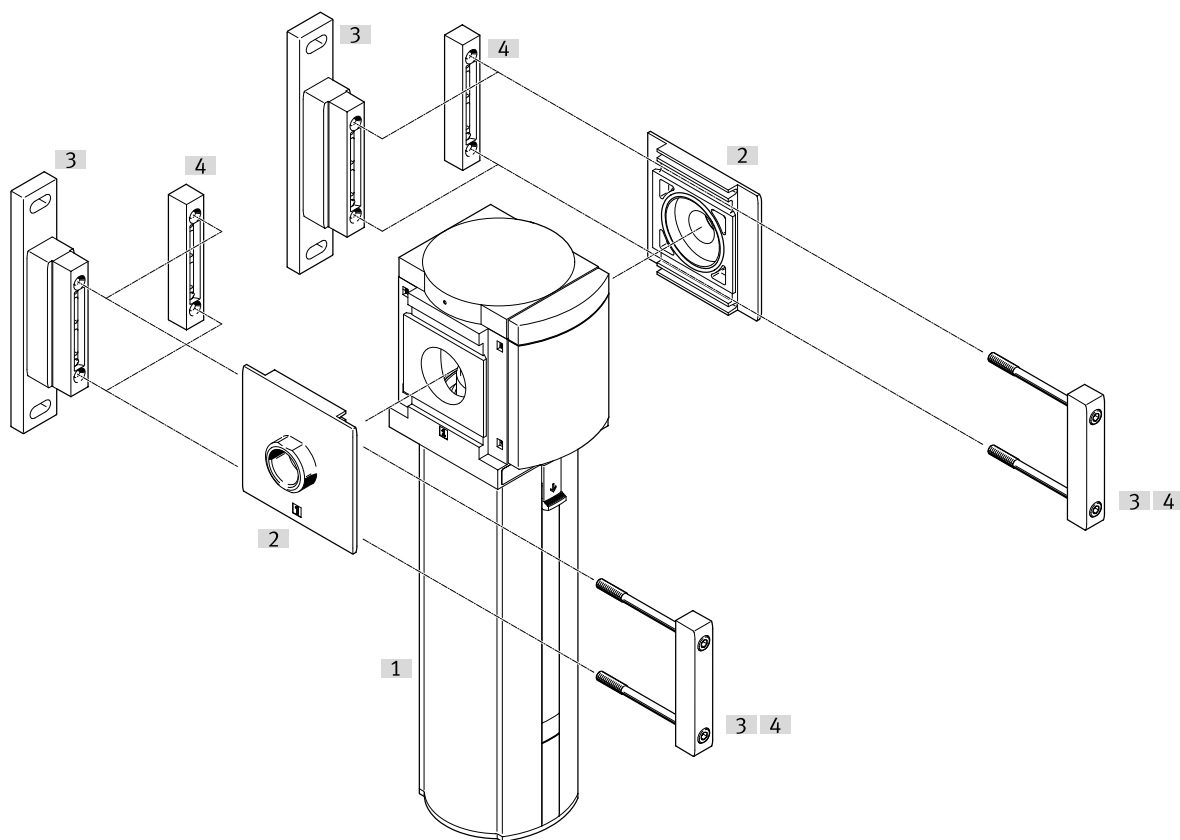
	B1	B2	B3	L1	L2	L4	L5	Ø 1
MS12-LFX	124	61	148	542	86	166	350	36

Ordering data

Ordering data– Modular product system			
	Type code	Part no.	Type
	MS12	535046	MS12N-LFX

Peripherals overview

Peripherals overview



Accessories		→ Page/Internet
Type/order code	Description	
[1] Activated carbon filter MS12-LFX		ms12-lfx
[2] Sub-base-SET MS12-AQ...	Order code [AQ...]; for device combinations	10
[3] Mounting bracket MS12-WP	Order code [WP]; for single device	10
[4] Module connector MS12-MV	For device combinations and individual devices with sub-base	10

Accessories

Activated carbon filter cartridge MS12-LFX

	Residual oil content	Compressed air filter material	Product weight	Part no.	Type
	0.003 mg/m³	Activated carbon	445 g	537147	MS12-LFX

Module connector MS6-MV1

	Plate material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminum	VDMA24364-B1/B2-L	500 g	537134	MS12-MV

Mounting bracket MS6-WP...

	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminum	VDMA24364-B1/B2-L	700 g	537133	MS12-WP

Sub-base SET MS12-AG...

	Pneumatic connection 1	Material of sub-base	LABS (PWIS) conformity	Product weight	Part no.	Type
	1 NPT	Die-cast aluminum	VDMA24364-B1/B2-L	1,300 g	537139	MS12-AQT
	1 1/4 NPT		VDMA24364-B2-L		537140	MS12-AQU
	1 1/2 NPT		VDMA24364-B1/B2-L		537141	MS12-AQV
	2 NPT				537142	MS12-AQW