

MCP SmartFilter Ex

Cartridge filter for both indoor and outdoor installations. It is suitable for smoke, fumes, dust and combustible dust and can be used for many different industries..

MCP SmartFilter Ex



MCP SmartFilter Ex is a multi-purpose filtration system. It is customizable to perfectly fit customer specific demands with airflow up to 28 000 m³/h. Suitable for smoke, fumes, dust and combustible dust and can be used in several different applications such as welding, metal cutting and general dust.

The modular design allows for standalone solutions as well as multi-filter solutions for extended requirements. With a new and innovative cartridge design - the squircle shape utilizes the square space within the dust collector in the most optimal way and generates high cartridge airflow. Thus, decreasing the size and hence the footprint of the system.

Constructed with 2 mm galvanized steel panels, it is easy to install, cost effective to ship and provides corrosion protection. The design is optimized for long filter lifetime providing low cost of ownership. Insight ready control with advanced pulse cleaning logic provides for full system operation including control and monitoring, as well as gateway functionality for cloud communication.

It has full compliance to global directives, especially important on combustible dust (ATEX) applications. The MCP SmartFilter has a large accessories program including; fans, inlets, bins etc. and the cartridges are available in a wide variety of materials

- Gain control over filtration performance with Insight Analytics. Nederman's unique monitoring technology
- Optimized footprint through innovative cartridge design with high airflow
- Reduced TCO through intelligent cleaning system, long filter cartridge life-time and optimized footprint
- Future Proof system that is IoT prepared- Insight Ready
- Controller, HMI and Gateway all in one unit with the Insight Control Panel.

Medya	MCP SmartFilter Ex
Filtreleme kalitesi (%)	99,9
Kompresor hava tüketimi	60 litres per cleaning pulse at 6,0 bar compressed air
Kurulum	[Indoor], [Outdoor]
Materyal	2 mm galvanised sheet metal
Patlayıcı toz için ideal	True
Filtre temizlik metodu	[Pulsejet]
Application	[fumes], [dust]
Çalışma Basıncı (kPa)	Vacuum max. 6 kPa. Overpressure max. 0 Pa. (1,5 kPa for silotop solution)
Çöp kovası (l)	50 or 100 litre bin
Filtre alanı (m ²)	Polyester: 30 to 192 m ²
Kapasite(maks. Hava debisi m ³ /h)	4500 to 28000
Operating Temperature	-20 to +70 Deg. C.
Filtre türü	[cartridge]
Filtre materyali	Uygulamaya bağlı olarak

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Teknik bilgi onayı

Konfigüre edilmiş ürün











Fumes



Dust



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[image]	Bilgi Dökümanı ismi	Filtre adedi	[model]
	MCP-2-8S-Ex Akıllı filtre	8	MCP-2-8S-Ex*
	MCP-4-16S-Ex Akıllı filtre	16	MCP-4-16S-Ex*
	MCP-6-24S-Ex Akıllı filtre	24	MCP-6-24S-Ex*
	MCP-8-32S-Ex Akıllı filtre	32	MCP-8-32S-Ex*
	MCP-2-8SL-Ex Akıllı filtre	8	MCP-2-8SL-Ex*
	MCP-4-16SL-Ex Akıllı filtre	16	MCP-4-16SL-Ex*
	MCP-6-24SL-Ex Akıllı filtre	24	MCP-6-24SL-Ex*
	MCP-8-32SL-Ex Akıllı filtre	32	MCP-8-32SL-Ex*

*Konfigüre edilmiş ürün

MCP SmartFilter Ex

Product Marking of MCP SmartFilter Ex

CE  II 1D/3D/- c Ex h IIIC 120°C Da/Dc/-

Product marking of MCP SmartFilter Ex

Pred,max	KST	Zone Placement
0,3 bar	St1 (0 to 200 bar m s ⁻¹) St2 (> 200 to 300 bar m s ⁻¹) St3 (> 300 bar m s ⁻¹)*	None-zone Zone 22*

*Not available as standard, available by request

MCP SmartFilter Ex specifications

Cartridge material

- SC100 – Spunbond polyester
- SC140 – Spunbond polyester with antistatic treatment
- SC141 – Spunbond polyester with antistatic treatment and PTFE coating
- SC150 – Spunbond polyester with ePTFE membrane
- SC151 – Spunbond polyester with antistatic treatment and ePTFE membrane
- SC178/SC179 – 80% cellulose, 20% polyester material with nanofiber
- SC190 – Spunbond polyester with PTFE coating

A – Height of Clean Air Chamber (mm)

200	350	500	650
Shown in drawings	Add 150 mm in height	Add 300 mm in height	Add 450 mm in height

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Filter area

Filter type	Quantity of cartridges	Filter area (m ²)			Max. airflow (m ³ /h)*
		SC100, SC140, SC141, SC150, SC151, SC190	SC178	SC179	
MCP-2-8S MCP-2-8S-Ex	8	48,0	105,6	52,0	7000
MCP-4-16S MCP-4-16S-Ex	16	96,0	211,2	104,0	14000
MCP-6-24S MCP-6-24S-Ex	24	144,0	316,8	156,0	21000
MCP-8-32S MCP-8-32S-Ex	32	192,0	422,4	208,0	28000
MCP-2-8SL MCP-2-8SL-Ex	8	30,4	67,2	32,8	4500
MCP-4-16SL MCP-4-16SL-Ex	16	60,8	134,4	65,6	9000
MCP-6-24SL MCP-6-24SL-Ex	24	91,2	201,6	98,4	13500
MCP-8-32SL MCP-8-32SL-Ex	32	121,6	268,8	131,2	18000

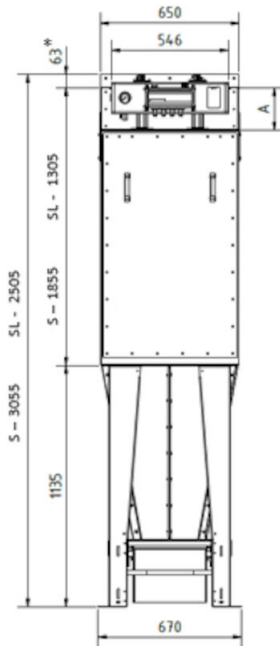
*Max. air flow is dependent on the dust type, etc.

Accessories

Figure	Description	Figure	Description
	Top mounted FM-fans 50 Hz or 60 Hz up to 14000 m ³ /h		Leg height extensions from 0 mm to 2000 mm to fit larger bins/containers, rotary valves and big bags
	Combifab remote fans 50 Hz or 60 Hz		Leg width extension 300 mm to left, right or both sides to fit larger bins/containers, rotary valves and big bags
	Noise enclosure to reduce fan and motor break-out-noise of FM-fans		Suspension below rotary valve for big bag
	Dual silencer to reduce air flow, fan noise and motor break-out-noise of FM-fans (available with grid (indoor use), grid and rain cover (outdoor use) or flange for dust connection)		Isolation box for pressure tank incl. cleaning valves
	Regulation (iris) damper at fan inlet for FM-fans		Access platform with ladder for maintenance
	Dust bins (50 l, 50 l with wheels and 100 l with wheels)		Lime feeder NFKG-70
	Plastic bag in the dust bin with pressure compensation set 'bin balancing'		Several sensors available for extraction, filtration and discharge process
	Rotary valves NRS3 and NRSZ3		Water separator and pressure regulator
	Dust discharge valve NFUS3		QF-duct system

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MCP-2-8S / MCP-2-8S-Ex
MCP-2-8SL / MCP-2-8SL-Ex

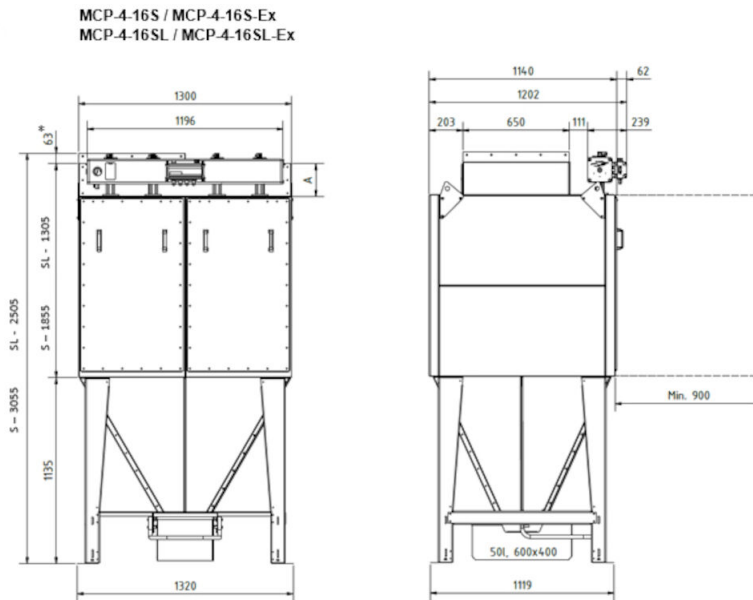


All dimensions in mm.

If 50 liter bin with wheels 90 mm must be added to the height.

* to be included only if a top mounted FM fan is used (transition for fan).

MCP SmartFilter Ex



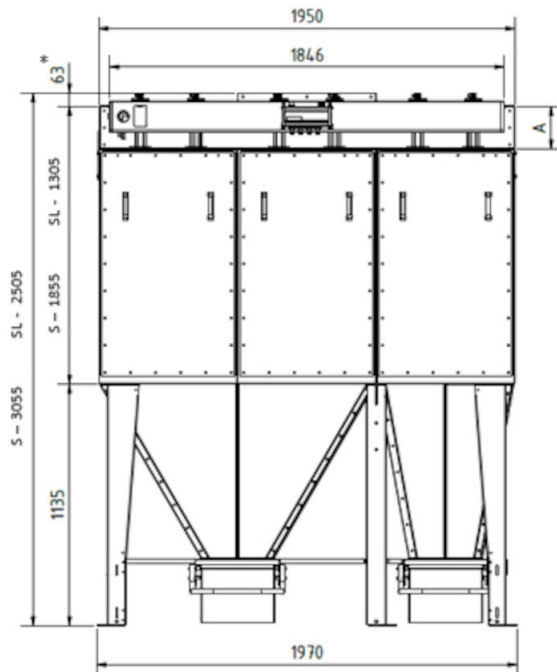
All dimensions in mm.

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MCP-6-24S / MCP-6-24S-Ex
MCP-6-24SL / MCP-6-24SL-Ex

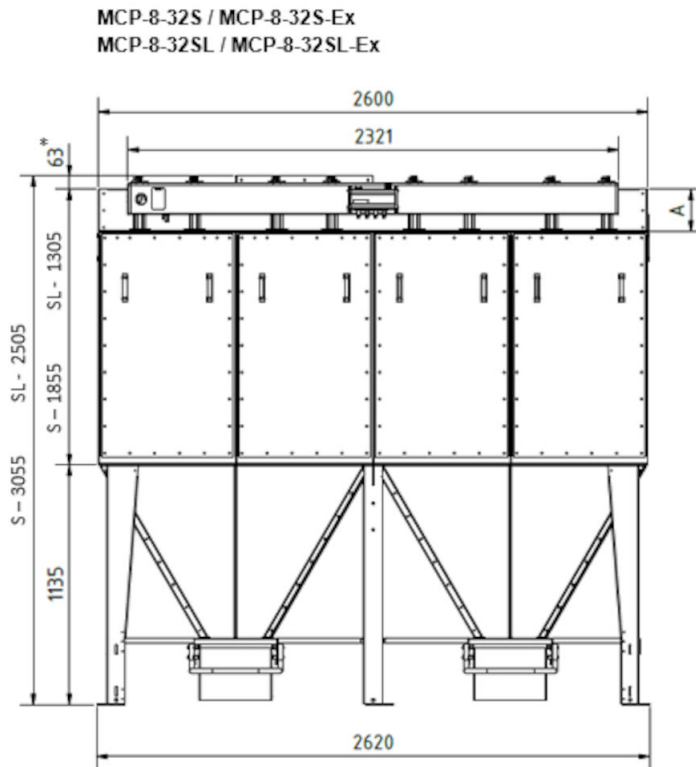


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