

Cartridge filter for both indoor and outdoor installations. The filter can be used for many different dust producing industries.





MCP SmartFilter 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 and 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 multifilter 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.

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.

Product name	MCP SmartFilter
Compressed air consumption	60 litres per cleaning pulse at 6,0 bar compressed air
Installation	Indoor, Outdoor
Material	2 mm galvanised sheet metal
Suitable for combustible dust	False
Filter cleaning method	Pulse jet
Application	Fumes, Dust
Working pressure (kPa)	Vacuum max. 6 kPa. Overpressure max. 0 Pa. (1,5 kPa for silotop solution)
Dustbin volume (l)	50 or 100 litre bin
Filter Area (m²)	Polyester: 30 to 192 m2 SC178: 67 to 422 m2 SC179: 32 to 208 m2
Capacity (max airflow m3/h)	4500 to 28000
Operating Temperature	-20 to +70 Deg. C.
Filter type	Cartridge
Filter material	Depending on application
Colour	

MCP SmartFilter





Image	Description	Number of filter elements	Model	
	MCP-2-8S SmartFilter	8	MCP-2-8S*	
	MCP-4-16S SmartFilter	16	MCP-4-165	
	MCP-6-24S SmartFilter	24	MCP-6-24S	
	MCP-8-32S SmartFilter	32	MCP-8-32S	
	MCP-2-8SL SmartFilter	8	MCP-2-8SL	
	MCP-4-16SL SmartFilter	16	MCP-4-16SL	
	MCP-6-24SL SmartFilter	24	MCP-6-24SL	
	MCP-8-32SL SmartFilter	32	MCP-8-32SL	

*Configured product

MCP SmartFilter

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	Add 300 mm	Add 450 mm
	in height	in height	in height

Filter area

Filter type	Quantity of cartridges	SC100, SC140, SC141, SC150, SC151, SC190	Filter area (m²) SC178	SC179	Max. airflow (m³/h)*
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

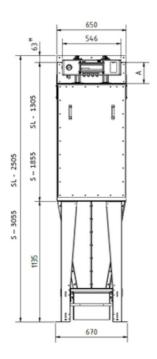
*Max. air flow is dependent on the dust type, etc

MCP SmartFilter

Accessories Figure Descrip Top mounted FM-fans 50 Hz or 60 Hz up to 14000 m³/h XEBU XEB Leg height extensions from 0 mm to 2000 mm to fit larger bins/containers, rotary valves and big bags Leg width extension 300 mm to left, right or both sides to fit larger bins/containers, rotary valves and big bags Combifab remote fans 50 Hz or 60 Hz 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 cowr (outdoor use) or flange for duct 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 (501, 501 with wheels and 1001 with wheels) 201 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

MCP SmartFilter

MCP-2-85 / MCP-2-8S-Ex MCP-2-8SL / MCP-2-8SL-Ex



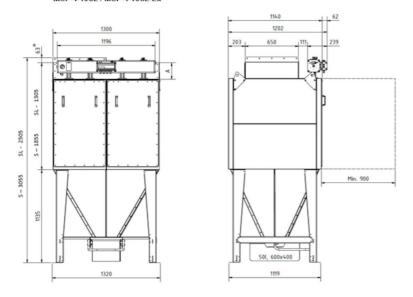
All dimensions in mm.

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-4-16S / MCP-4-16S-Ex MCP-4-16SL / MCP-4-16SL-Ex



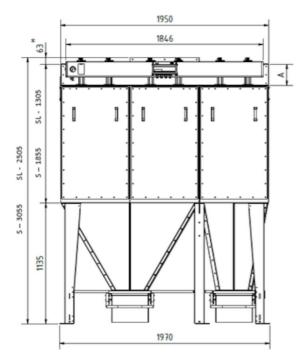
All dimensions in mm.

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

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

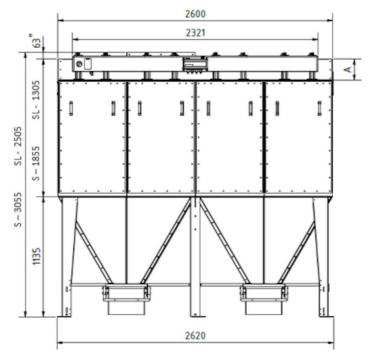


All dimensions in mm.

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

MCP-8-32S / MCP-8-32S-Ex MCP-8-32SL / MCP-8-32SL-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).