

MEP SmartFilter Ex is a multi-purpose filtration system. It is customizable to perfectly fit customer specific demands with airflow up to 10 500 m3/h.



MEP SmartFilter Ex is a multi-purpose envelope filtration system. It is customizable to perfectly fit customer specific demands. Suitable for different dust types including combustible dust and can be used in several different applications such as grinding, shot blasting and general dust.

The modular design allows for standalone solutions as well as multifilter solutions for extended requirements. The MEP dust collector uses our long established fabric envelopes that are easily maintained through the front hinged doors.

Filter envelope materials for most applications are available, dependent on dust type, dust load and efficiency requirements. Constructed in 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 MEP SmartFilter has a large accessories program including; fans, inlets, bins etc. and the envelopes 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 envelope design with medium airflow.
- Reduced TCO through intelligent cleaning system, long filter life-time and optimized footprint
- Future Proof system that is IoT prepared- Insight Ready

Product name	MEP SmartFilter Ex
Compressed air consumption	58 litres per cleaning pulse at 5,5 bar compressed air
Installation	Indoor, Outdoor
Material	2 mm galvanised sheet metal
Suitable for combustible dust	True
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 (I)	50 or 100 litre bin
Filter Area (m²)	15 - 88
Capacity (max airflow m3/h)	1800 - 10500
Operating Temperature	-20°C to +70°C
Filter type	Cassette filter
Filter material	



umes Dust



Image	Description	Number of filter elements	Model
A	MEP-4-4-Ex Smartfilter	4	MEP-4-4-Ex
	MEP-6-4-Ex Smartfilter	6	MEP-6-4-Ex
RAS	MEP-8-4-Ex Smartfilter	8	MEP-8-4-Ex
AA	MEP-2-6-Ex Smartfilter	2	MEP-2-6-Ex
	MEP-4-6-Ex Smartfilter	4	MEP-4-6-Ex
	MEP-6-6-Ex Smartfilter	6	MEP-6-6-Ex
245	MEP-8-6-Ex Smartfilter	8	MEP-8-6-Ex
	MEP-2-4-Ex SmartFilter	2	MEP-2-4-Ex



Figure	Description	Figure	Description
	Top mounted FM-fans 50 Hz or 60 Hz up to 14000 m³/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	T	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 duct connection)		Isolation box for pressure tank incl. cleaning valves
	Regulation (iris) damper at fan inlet for FM-fans		Access platform with ladde for maintenance
eed	Dust bins (50 I, 50 I with wheels and 100 I with wheels)		Lime feeder NFKG-70
	Plastic bag in the dust bin with pressure compensation set 'bin balancing'	0 🛊 🔪	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

Envelope material

- NF100 Polyester needlefelt, singed, 500 g/m²
- NF130 Polyester needlefelt, glazed, 500 g/m²
- NF141 Polyester needlefelt, glazed, 400 g/m², antistatic
- NF142 Polyester needlefelt, glazed, 500 g/m², antistatic
- NF143 Polyester needlefelt, PTFE coating, 550 g/m², antistatic
- NF180 Polyester needlefelt, glazed, 550 g/m²
- NF181 Polyester needlefelt, PTFE coating, 550 g/m²

MCP Envelope material



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

MEP A - height of clean air chamber

Product Marking of MEP SmartFilter Ex



MEP SmartFilter Ex marking

Pred,max	кѕт	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*

MEP SmartFilter Ex specifications

Filter area

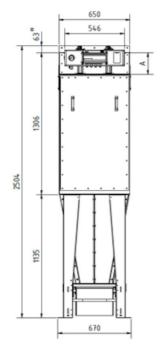
Filter type	Quantity of envelopes	Filter area (m²)	Max. airflow (m³/h)*
MEP-2-4 MEP-2-4-Ex	2	15	1800
MEP-4-4 MEP-4-4-Ex	4	29	3400
MEP-6-4 MEP-6-4-Ex	6	44	5200
MEP-8-4 MEP-8-4-Ex	8	58	7000
MEP-2-6 MEP-2-6-Ex	2	22	2600
MEP-4-6 MEP-4-6-Ex	4	44	5200
MEP-6-6 MEP-6-6-Ex	6	66	8000
MEP-8-6 MEP-8-6-Ex	8	88	10500

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

MEP Filter area



MEP-2-4 / MEP-2-4-Ex MEP-2-6 / MEP-2-6-Ex

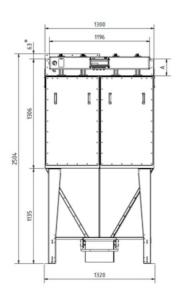


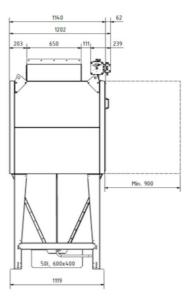
All dimensions in mm.

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



MEP-4-4 / MEP-4-4-Ex MEP-4-6 / MEP-4-6-Ex



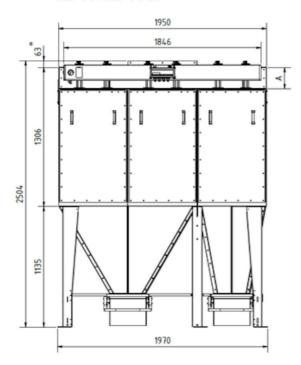


All dimensions in mm.

 $[\]mbox{\ensuremath{^{\star}}}$ to be included only if a top mounted FM fan is used (transition for fan).



MEP-6-4 / MEP-6-4-Ex MEP-6-6 / MEP-6-6-Ex

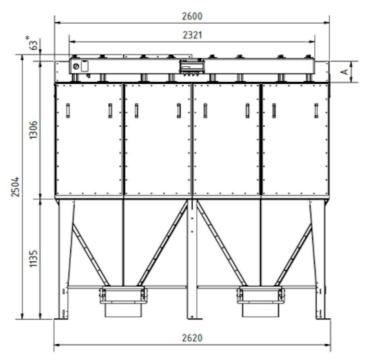


All dimensions in mm.

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



MEP-8-4 / MEP-8-4-Ex MEP-8-6 / MEP-8-6-Ex



All dimensions in mm.

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