

MCP SmartFilter Ex

Patronfilter til både indendørs og udendørs applikationer. Filteret er velegnet til udsugning af røg, dampe, støv herunder også brændbart støv. Filteret kan anvendes i mange forskellige industrier.

MCP SmartFilter Ex

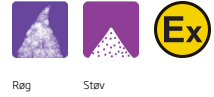


MCP SmartFilter er et multifunktions-filtreringssystem. Det kan tilpasses, så det passer perfekt til kundespecifikke krav med en luftstrøm på op til 28.000 m³/time. Velegnet til røg, dampe og alle typer tørt støv og kan bruges i flere forskellige applikationer såsom svejsning, metalskæring og generelt støv. Det modulære design giver mulighed for fritstående løsninger såvel som sammenbygning af filtre til udvidede krav. Det nye og innovative patrondesign udnytter den rådige plads inden i filteret på den mest optimale måde og genererer høj luftgennemstrømning. Dermed reduceres filterets størrelse og dets fodaftryk. Filteret er konstrueret i 2 mm galvaniseret stålplade, er let at montere, omkostningseffektivt ved forsendelse samt korrosionsbeskyttet. Filteret har lang levetid, hvilket betyder "low cost of ownership". Styring, som er IoT forberedt, med avanceret rensesystem giver optimal systemdrift inklusiv overvågning og kontrol af filteranlægget. Gateway-funktionalitet til "Cloud" kommunikation. Fuld overensstemmelse med globale direktiver, isæt vigtigt for applikation til brændbart støv (ATEX). MCP SmartFilter har et stort tilbehørsprogram såsom ventilatorer, indløb, affaldsspande, spjæld osv. Filterpatronerne fås i forskellige materialer afhængig af applikationen.









- Opnå kontrol over filtreringsydelse med "Insight Analytics", Nederman's unikke overvågningsteknologi.
- Optimeret fodaftryk gennem innovativ patrondesign med høj luftgennemstrømning.
- Reduceret TCO ved hjælp af intelligent rensesystem. Lang levetid for filterpatroner og optimeret fodaftryk.
- Fremtidssikret system, som er IoT forberedt - "Insight Ready".
- Kontrolboks, HMI og Gateway samlet i en enhed med Insight Control Panelet.

Produkt navn	MCP SmartFilter Ex
Filter udskilningsgrad (%)	99,9
Tryklufteforbrug	60 liter per rensespuls ved 6,0 bar trykluft
Installation	Indendørs, Udendørs
Materiale	2 mm galvaniseret stålplade
Egnet til eksplosivt støv	True
Metode for filterrensning	Puls Jet
Applikation	Røg, Støv
Arbejdsdruk (kPa)	Vakuüm max. 6 kPa. Overtryk max. 0 Pa. (1,5 kPa for silotop løsning)
Volumen affaldsbeholder (l)	50 eller 100 liter spand
Filterareal (m ²)	Polyester: 30 til 192 m ²
Kapacitet (max luftvolumen m ³ /h)	4500 til 28000
Driftstemperatur	-20 til +70 Deg. C
Type af filter	Filterpatron
Filtermateriale	Afhængig af applikation
Afklaring af tekniske data	Konfigureret produkt

MCP SmartFilter Ex




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Billede	Beskrivelse	Antal filter	Model
	MCP-2-8S-Ex SmartFilter	8	MCP-2-8S-Ex*
	MCP-4-16S-Ex SmartFilter	16	MCP-4-16S-Ex*
	MCP-6-24S-Ex SmartFilter	24	MCP-6-24S-Ex*
	MCP-8-32S-Ex SmartFilter	32	MCP-8-32S-Ex*
	MCP-2-8SL-Ex SmartFilter	8	MCP-2-8SL-Ex*
	MCP-4-16SL-Ex SmartFilter	16	MCP-4-16SL-Ex*
	MCP-6-24SL-Ex SmartFilter	24	MCP-6-24SL-Ex*
	MCP-8-32SL-Ex SmartFilter	32	MCP-8-32SL-Ex*

*Konfigureret produkt

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


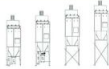
















MCP SmartFilter Ex

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

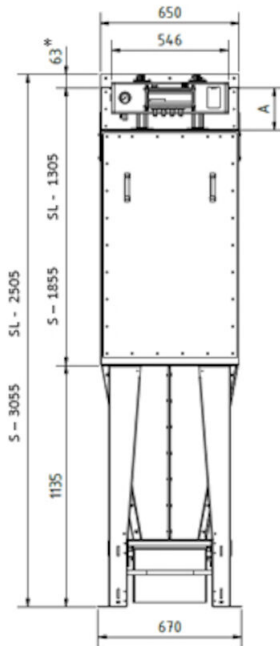
*Max. air flow is dependent on the dust type, etc.

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

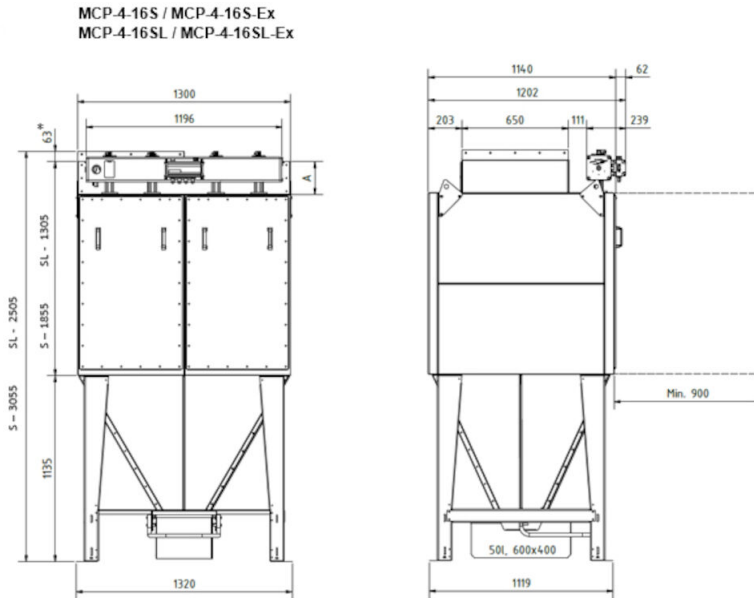


All dimensions in mm.

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



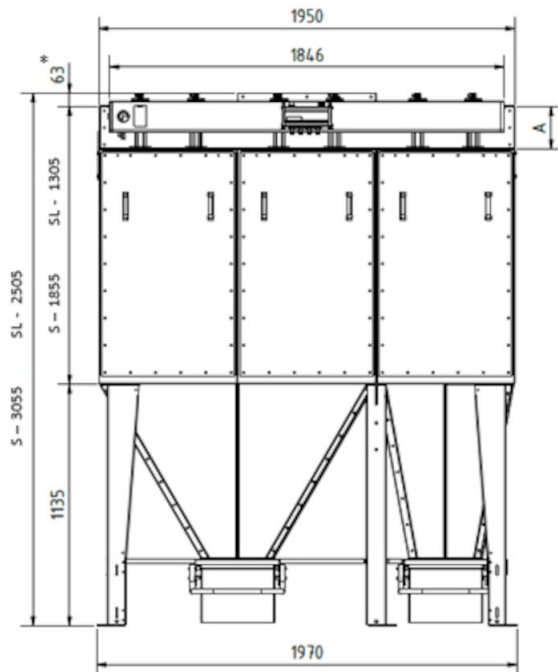
All dimensions in mm.

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

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MCP SmartFilter Ex

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

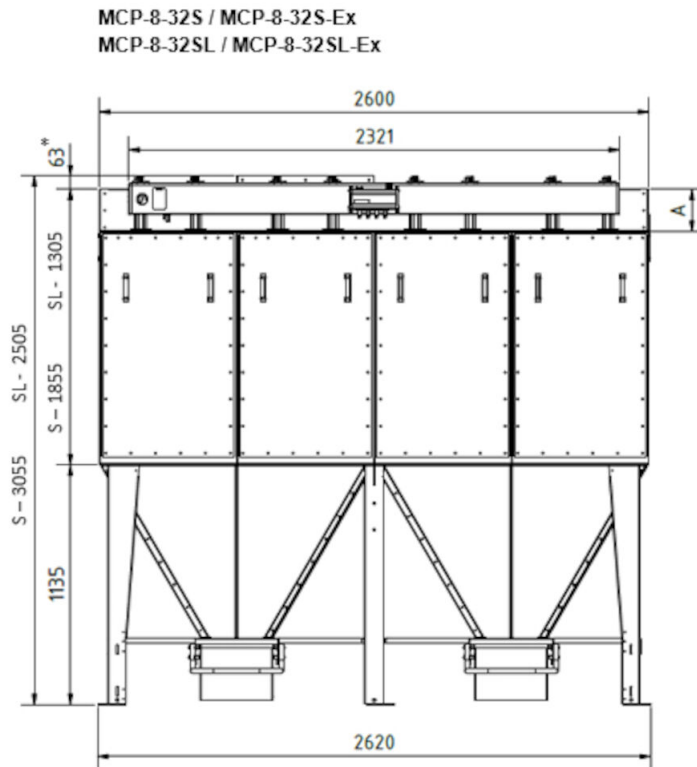


All dimensions in mm.

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