

## MCP Smartfilter

Patronfilter til både indendørs og udendørs applikationer. Filteret kan anvendes i mange forskellige støvproducerende industrier.

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## MCP Smartfilter



MCP SmartFilter er et multifunktions-filtreringssystem. Det kan tilpasses, så det passer perfekt til kundespecifikke krav med en luftstrøm på op til 28.000 m<sup>3</sup>/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. 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  |
| Tryklufteforbrug                              | 60 liter per rensespuls ved 6,0 bar trykluft   |
| Installation                                  | Indendørs, Udendørs  |
| Materiale                                     | 2 mm galvaniseret stålplade  |
| Egnet til eksplosivt støv                     | False  |
| Metode for filterrensning                     | Puls Jet   |
| Applikation                                   | Røg, Støv  |
| Arbejdsstryk (kPa)                            | Vakuüm max. 6 kPa.<br>Overtryk max. 0 Pa.<br>(1,5 kPa for silotop løsning)                                   |
| Volumen affaldsbeholder (l)                   | 50 eller 100 liter spand   |
| Filterareal (m <sup>2</sup> )                 | Polyester: 30 til 192 m <sup>2</sup><br>SC178: 67 til 422 m <sup>2</sup><br>SC179: 32 til 208 m <sup>2</sup> |
| Kapacitet (max luftvolumen m <sup>3</sup> /h) | 4500 til 28000   |
| Driftstemperatur                              | -20 til +70°C.   |
| Type af filter                                | Filterpatron   |
| Filtermateriale                               | Afhængig af applikation  |
| Farve   |  |
| Afklaring af tekniske data                    | Konfigureret produkt   |

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| Billede   | Beskrivelse            | Antal filter | Model       |
|---|------------------------|--------------|-------------|
|    | MCP-2-8S SmartFilter   | 8            | MCP-2-8S*   |
|    | MCP-4-16S SmartFilter  | 16           | MCP-4-16S*  |
|    | 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* |

\*Konfigureret produkt

## 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 in height | Add 300 mm in height | Add 450 mm in height |








### Filter area

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

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

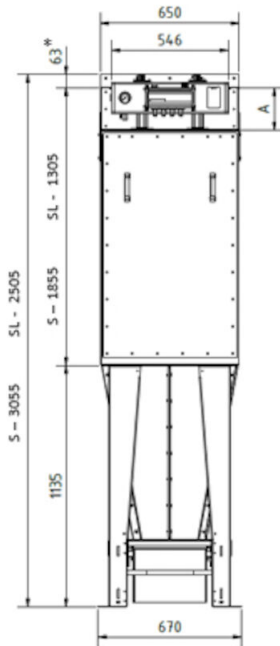
## MCP Smartfilter

### Accessories

| Figure  | Description  | Figure  | Description   |
|---|--|---|---|
|    | Top mounted FM-fans 50 Hz or 60 Hz up to 14000 m <sup>3</sup> /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 duct connection) |    | Isolation box for pressure tank incl. clearing 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  |

## MCP Smartfilter

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.

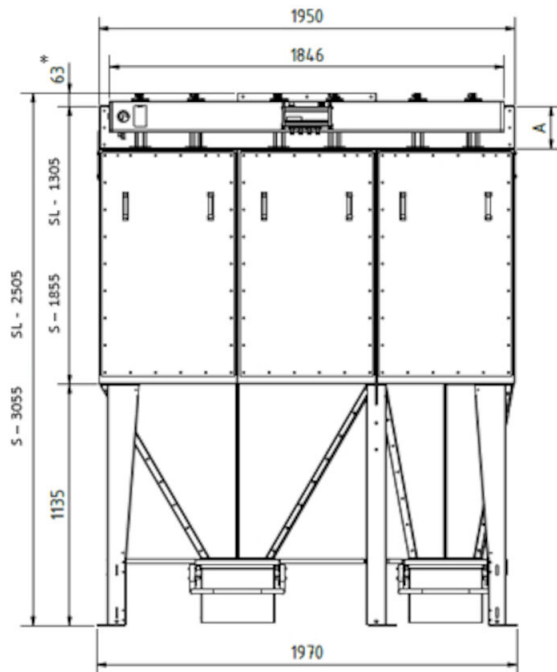
\* to be included only if a top mounted FM fan is used (transition for fan).





## MCP Smartfilter

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



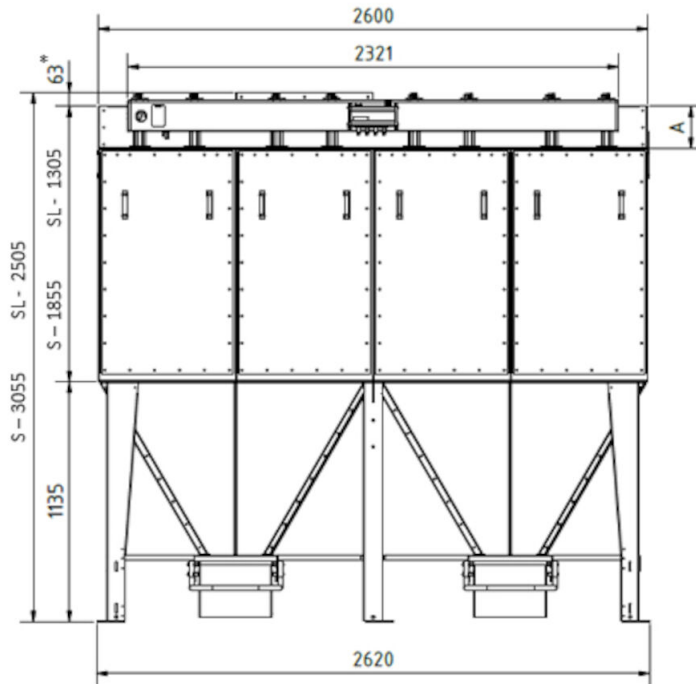
All dimensions in mm.

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\* 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).