

# MEP SmartFilter Ex

MEP SmartFilter Ex er et multifunktions-filtreringssystem. Det kan tilpasses, så det passer perfekt til kundespecifikke krav med en luftstrøm på op til 10.500 m<sup>3</sup>/time.



## MEP SmartFilter Ex

- ✓ Opnå kontrol over filtreringsydelse med "Insight Analytics", Nederman's unikke overvågningsteknologi.
- ✓ Optimeret fodafttryk gennem innovativ kuvertdesign med medium luftgennemstrømning.
- ✓ Reduceret TCO ved hjælp af intelligent rensesystem. Lang filterlevetid og optimeret fodafttryk.
- ✓ Fremtidssikret system, som er IoT forberedt - "Insight Ready".

MEP SmartFilter EX er et multifunktions-kuvertfiltreringssystem. Det kan tilpasses, så det passer perfekt til kundespecifikke krav. Velegnet til håndtering af forskellige støvtyper og kan anvendes til flere forskellige applikationer som slibning, blæsning og generelt støv. Det modulære design giver mulighed for fritstående løsninger såvel som sammenbygning af filtre til udvidede krav. MEP Ex filteret benytter vores velkendte og velafprøvede stof kuvertfiltre, som let vedligeholdes gennem de fronthængte servicedøre. Kuvertfiltermaterialer for de fleste applikationer forefindes, afhængig af støvtype, støvbelastning og krav til effektivitet. 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. MEP SmartFilter Ex har et stort tilbehørsprogram såsom ventilatorer, indløb, affaldsspande, spjæld osv.

## MEP SmartFilter Ex

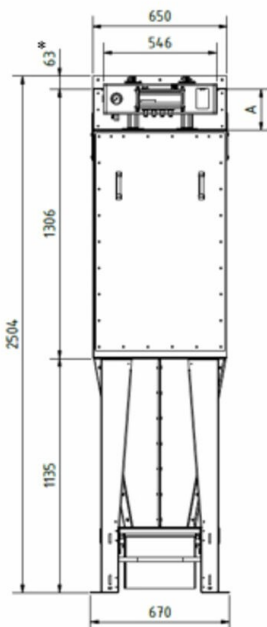
|                             |                                                                      |
|-----------------------------|----------------------------------------------------------------------|
| Cerifikat                   | CE, EX                                                               |
| Tryklufteforbrug            | 58 liter per rensespuls ved 5,5 bar tryklyft                         |
| Installation                | Indendørs, Udendørs                                                  |
| Materiale                   | 2 mm galvaniseret plade                                              |
| Egnet til eksplosivt støv   | True                                                                 |
| Metode for filterrensning   | Puls Jet                                                             |
| Applikation                 | Røg, Støv                                                            |
| Arbejdstryk (kPa)           | Vakuum max. 5 kPa. Overtryk max. 0 Pa. (1,5 kPa for silotop version) |
| Volumen affaldsbeholder (l) | 50 eller 100 liter affaldsspand                                      |
| Driftstemperatur            | -20°C til +60°C                                                      |

## Modeller

|                                                                                     | Art. Nr.                  | Type af filter | Antal filter |
|-------------------------------------------------------------------------------------|---------------------------|----------------|--------------|
|    | MEP-4-4-Ex <sup>[1]</sup> | Kassettefilter | 4            |
|    | MEP-6-4-Ex                | Kassettefilter | 6            |
|    | MEP-8-4-Ex                | Kassettefilter | 8            |
|    | MEP-2-6-Ex                | Kassettefilter | 2            |
|    | MEP-4-6-Ex                | Kassettefilter | 4            |
|  | MEP-6-6-Ex                | Kassettefilter | 6            |
|  | MEP-8-6-Ex                | Kassettefilter | 8            |
|  | MEP-2-4-Ex                | Kassettefilter | 2            |

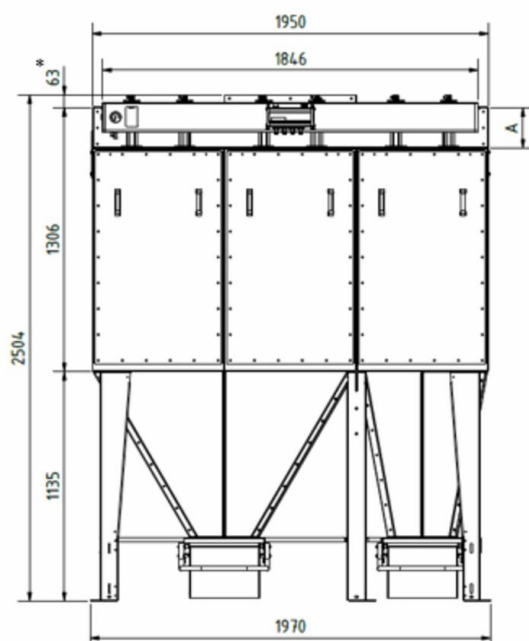
<sup>[1]</sup> Configurable product

**MEP-2.4 / MEP-2.4-Ex  
MEP-2.6 / MEP-2.6-Ex**



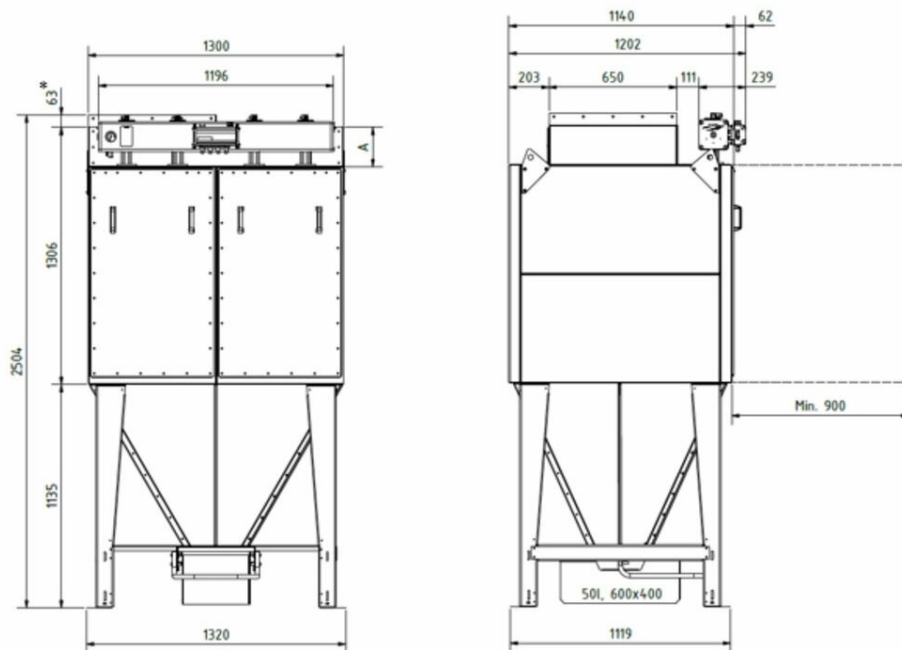
All dimensions in mm. If 50 liter bin with wheels 90 mm must be added to the height. \* to be included only if a top mounted FM fan is used (transition for fan).

**MEP-6.4 / MEP-6.4-Ex  
MEP-6.6 / MEP-6.6-Ex**



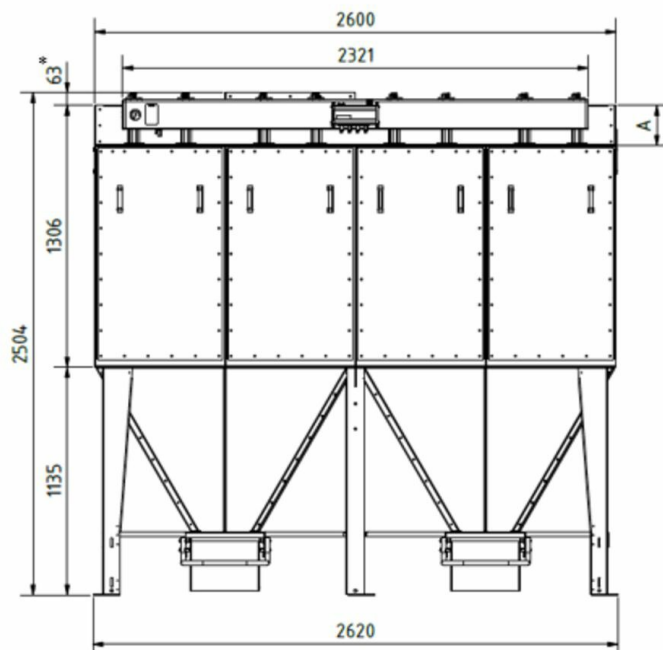
All dimensions in mm. If 50 liter bin with wheels 90 mm must be added to the height. \* to be included only if a top mounted FM fan is used (transition for fan).

**MEP-4.4 / MEP-4.4-Ex**  
**MEP-4.6 / MEP-4.6-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).

**MEP-8.4 / MEP-8.4-Ex**  
**MEP-8.6 / MEP-8.6-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).

## Envelope material

- NF100 – Polyester needlefelt, singed, 500 g/m<sup>2</sup>
- NF130 – Polyester needlefelt, glazed, 500 g/m<sup>2</sup>
- NF141 – Polyester needlefelt, glazed, 400 g/m<sup>2</sup>, antistatic
- NF142 – Polyester needlefelt, glazed, 500 g/m<sup>2</sup>, antistatic
- NF143 – Polyester needlefelt, PTFE coating, 550 g/m<sup>2</sup>, antistatic
- NF180 – Polyester needlefelt, glazed, 550 g/m<sup>2</sup>
- NF181 – Polyester needlefelt, PTFE coating, 550 g/m<sup>2</sup>

MCP Envelope material

## Filter area

| Filter type           | Quantity of envelopes | Filter area (m <sup>2</sup> ) | Max. airflow (m <sup>3</sup> /h)* |
|-----------------------|-----------------------|-------------------------------|-----------------------------------|
| MEP-2-4<br>MEP-2-4-Ex | 2                     | 15                            | 1800                              |
| MEP-4-4<br>MEP-4-4-Ex | 4                     | 29                            | 3400                              |
| MEP-6-4<br>MEP-6-4-Ex | 6                     | 44                            | 5200                              |
| MEP-8-4<br>MEP-8-4-Ex | 8                     | 58                            | 7000                              |
| MEP-2-6<br>MEP-2-6-Ex | 2                     | 22                            | 2600                              |
| MEP-4-6<br>MEP-4-6-Ex | 4                     | 44                            | 5200                              |
| MEP-6-6<br>MEP-6-6-Ex | 6                     | 66                            | 8000                              |
| MEP-8-6<br>MEP-8-6-Ex | 8                     | 88                            | 10500                             |

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

MEP Filter area

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

MEP SmartFilter Ex marking

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

\*Not available as standard, available by request

### MEP SmartFilter Ex specifications

#### Accessories

| 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              |
|    | Combitab 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. 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                                                                                                    |