

FilterMax C25

A compact multi purpose dust collector with built-in fan



FilterMax C25 is a complete integrated filter solution for the entire workshop. FilterMax C25 handles the air pollution from metal industries as well as non explosive dust from other industries. The filter has the capacity to handle up to 2750 m³/h (1620 cfm). A wide range of cartridges for different purposes are available.

With its sturdy design, smooth inner surfaces, optimized angles of repose and digital control system, the filter fulfils stringent demands for continuous operation and effective filtration.

To simplify use and guarantee optimum performance, FilterMax C25 is equipped with Nederman's automatic cleaning system. The pulse-jet system shoots short, powerful jets of air into the filter cartridges. The dirt is released from the filter surface and falls down into a container. The pulse-jet system cleans the filter cartridges in sequence while the filter is in operation. The FilterMax C25 can also be cleaned after operation if so desired.

The FilterMax C25 cartridge is a high performance, compact filter cartridge. The design is optimized for efficient media use and good cleaning properties. The small inner volume in

combination with the air distributing support cage gives efficient cleaning. Shallow open pleats allows efficient removal of dust. The cartridges is available in different materials. The flat pocket shaped minimizes the area of the "lost" media on top of the cartridge.

- A powerful filtration solution for continuous operation
- Compact unit with small floor space requirements
- Quiet cleaning system for a good work environment
- Integrated fan and control system for simple mechanical and electric installation

Models

| Description | V | Phase | Hz | A | Part No. |
|--|-------------|-------|----|------------------|----------|
| FilterMax C25 400V 50Hz | 400 | 3 | 50 | 6.1 | 12630167 |
| FilterMax C25 208V 60Hz EPAAct motor | 208 | 3 | 60 | 11 | 12630367 |
| FilterMax C25 460V 60Hz | 460 | 3 | 60 | 5 | 12631467 |
| FilterMax C25 575V 60Hz | 575 | 3 | 60 | 4 | 12630467 |
| FilterMax C25 220/380/440V 60Hz Brazil | 220/380/440 | 3 | 60 | 11.8 / 6.9 / 5.9 | 12631867 |

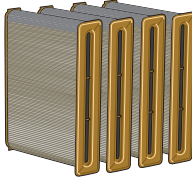

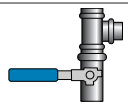


Models including PW NS filters, 12 m²

| Description | V | Phase | Hz | A | Part No. |
|---|-----|-------|----|-----|----------|
| FilterMax C25 400V 50Hz (without filter) | 400 | 3 | 50 | 6.1 | 12630767 |
| FilterMax C25 460V 60Hz EPAAct motor (without filter) | 460 | 3 | 60 | 5 | 12630967 |
| FilterMax C25 575V 60Hz (without filter) | 575 | 3 | 60 | 4 | 12631067 |

Models not including filters. Choose filters from list of accessories

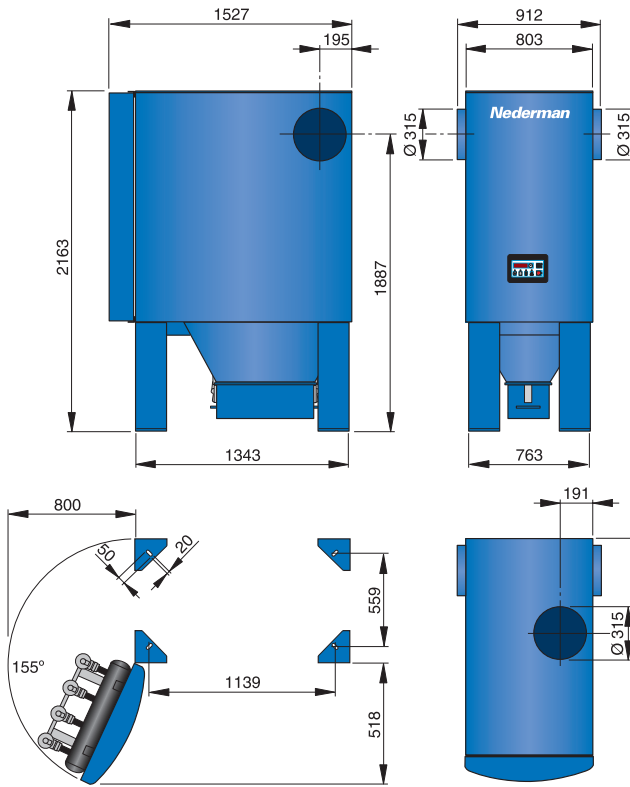
| Description | V | Phase | Hz | A | Part No. |
|---|-----|-------|----|-----|----------|
| Rebuilding Kit for FilterMax C25 from 400V to 230V, 3-phase, 50Hz | 230 | 3 | 50 | 6.1 | 12374563 |

Accessories

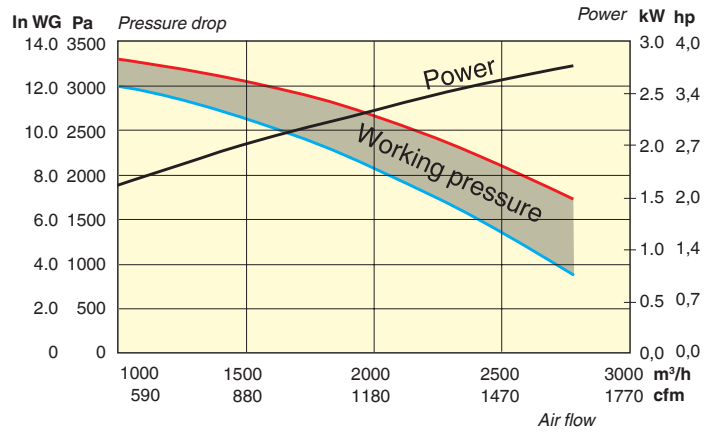
| Description | Part. No | |
|---|-----------|---|
| Filter cartridge, 12 m² / 130 ft², PW NS-95-12-4 (4-pack) / W3 PTFE impregnated (Non-Stick), spun bound polyester. Suitable for fumes and fine to medium dust. Washable. Efficiency 99% at 0.5 µm. | 12373270* |  |
| Filter cartridge, 12 m² / 130 ft², PW PTFE-95-12-4 (4-pack) PTFE membrane, laminated to spun bound polyester. Suitable for fine to medium particles. Washable. Efficiency 99.9% at 0.5 µm. | 12373325* | |
| Filter cartridge, 10 m² / 108 ft², Antistatic, PWA-95-10-4, (4-pack) Aluminium coated spun bound polyester. Suitable for ignition sensitive, medium to coarse particles. Washable. Efficiency 99% at 0.5 µm. | 12373303* | |
| Filter cartridge, 10 m² / 108 ft², Antistatic PTFE, PWA PTFE-95-10-4, (4-pack) Aluminium coated spun bound polyester, laminated with a PTFE membrane. Suitable for ignition sensitive, medium to coarse particles. Washable. Efficiency 99.9% at 0.5 µm. | 12373335* | |
| Filter regulator Is used for setting the correct air pressure. Separates dust in the pressured air why it also protects the valves. Should be installed in the compressed air pipe line. Must be positioned in a frost free environment. | 12372064 |  |
| Shut off valve for compressed air An air venting type. Should be installed in the compressed air pipe line. Is used to turn off the compressed air supply before any service on the system is done. When ordered connected to delivery this accessory is mounted on factory. | 12372083 |  |
| Pressure gauge kit Measures the pressure drop over the filter cartridges. Is mounted on the FilterMax' stand. Can be combined with a pressure switch to get LED no. 3 indicated, which indicates time to change filter cartridges. When ordered connected to delivery this accessory is mounted on factory. | 12372063 |  |
| dP Control kit Is used for controlling the cleaning more efficiently and with better supervision. Saves pressured air in some applications with intermittent load. Equipped with alarm functions for high pressure drop over the filter cartridge. | 12373321 | |
| Safety Switch For FilterMax C 25. | 12372076 | |
| FilterMax C25 W3 kit The kit includes dP Control kit, filter regulator, shut off valve, flashlight and plastic bags for the dust container. With this kit the FilterMax C25 is BGIA-certified for the highest available welding fume category (W3). Welding fume category W3 means that the unit is able to reliably extract and clean low, medium and high alloyed steel, e.g. containing a part of nickel and chrome of 30% and more with a separation efficiency of ≥ 99%. With this kit the FilterMax C25 is certified according to the international effective standard DIN EN ISO 15012-1 (2005) that controls industrial and health protection for welding and related processes and the requirements, examination and identification of air cleaning systems. | 12375078 |  |

*Only for ordering with a FilterMax C25. Part numbers for replacement filter cartridges can be found in the instruction manual or www.nederman.com.
A number of different types of filter cartridges are available, for details please contact your nearest Nederman dealer.

Dimensions



Suction pressure



Actual working pressure will depend on application and dimensioning.

Technical data

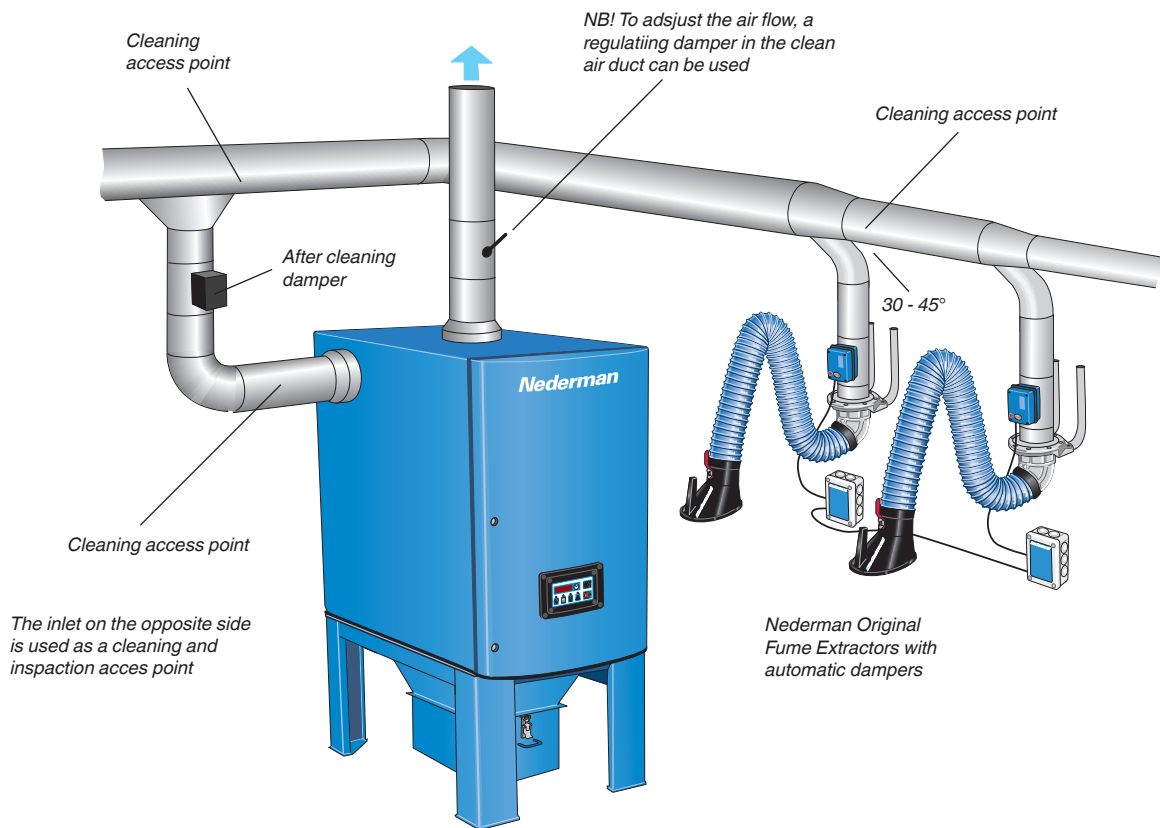
| Model | C25 |
|---|---|
| Weight | 454 kg / 1000 lbs |
| Number of filter cartridges | 4 |
| Total filter area | 48 m² / 520 ft² (Poly Web filter) 40 m² / 430 ft² (Poly Web antistatic filter) |
| Airflow (depending on load and application) | 1500 - 2750 m³/h 900 - 1600 cfm |
| Compressed air requirements | 4 - 6 bar / 60 - 90 psi, water and oil free |
| Compressed air consumption | 64 N-litres/min at 30 sec intervals, 32 N-litres/cleaning pulse 2.3 cfm/min at 30 sec intervals, 1.15 cfm/cleaning pulse |
| Ambient temperature | -20°C to +50°C / -4°F to 122°F |
| Process air (dry) temperature | 0°C to +60°C / 32°F to 140°F, Not condensing |
| Dimensioned pressure drop | 1200 Pa / 5" WG |
| Filtration | 99% or 99.9% (PTFE-filter) at 0.5 µm (after some time in operation) |
| Bin capacity | 30 lit. / 8 gal. |
| Material description | 3 mm painted steel plate |
| Installation | Indoor |
| Fan motor | 3 kW (4 hp) |
| Protection class | IP 54 |
| Relay voltage, accessory | 24 V AC, maximum 60 VA |
| Working pressure | 0 to -5 kPa, not overpressure |
| Pulse noise | 50 dB Lp Aeq, 30 s |
| Noise level | 66 dB(A) |

Environmental data

| Model | C25 |
|-----------------------------------|------------|
| Weight (kg/lbs) | 454 / 1000 |
| Noise, LpAeq pulse and air flow * | 66 dBA |
| Recovery level % of weight | 88% |

*According to ISO 11203

System installation



- To avoid pressure losses and dust deposits in the system it is important to use the correct duct diameter. The transport velocity shall be at least 10-12 m/s (2000-2400 ft/min) for fume and 15-20 m/s (3000-4000 ft/min) for dust. Take velocity into account when choosing the duct diameters. The velocity should never decrease en route to FilterMax C25. The following duct diameters can be used for the connection to FilterMax C25: Ø250 mm (10") for the inlet and Ø315 mm (12") for the outlet.
- Use long radius bends and no t-pieces.
- Install plenty of cleaning access points in the ducting system before FilterMax C25.
- If the dust is abrasive it may be necessary to use thick walled (or rubber coated) material in bends and other exposed areas.
- To avoid pressure losses the ducting system should be as short as possible and designed with two or more branches.
- Use larger diameters on the clean side to reduce pressure losses.
- Use fire dampers when the duct system is passing from one fire zone to another. NB! Fire dampers do not stop explosions!
- Install a flow meter in the outlet duct, at least 3 m (10 ft.) from the filter outlet.
- If there is a significant fire risk, it is better to install several small systems than one large system.
- Install a sparktrap to prevent sparks or burning/glowing material from entering the FilterMax C 25.
- At welding work on oiled material the filter cartridges should be treated with fine lime powder (approx. 60 g) before the first start.