

MIRKA

M-Class Dust Extractors

Safety, Compliance and Best Practices

What is an M-Class Dust Extractor?

Definition: Designed to filter harmful, medium-risk dust (e.g., hardwood, silica).

Why it Matters: Essential for workplace health & safety compliance.

Certification: Regulated by the IEC and CEN (local regulations may also apply).



Classes

Dust Class L ≥ 99%	Hazardous dust with limit values > 1 mg/m ³	For simple and harmless dust, e.g. household dust, soil and lime.	DE 1025 L, 1125 L and 1230 L (HEPA filter also available for 1230 L)
Dust Class M ≥ 99.9%	Hazardous dust with limit values > 0.1 mg/m ³	For wood dust and dust originating from repair compounds, fillers and clear coats, plaster, cement, concrete, tile adhesive and paints such as latex and oil-based paints, as well as quartz-containing materials such as sand and pebbles.	DE 1230 M and 1242 M (HEPA filter available). DEXOS® 1230 M AFC and 1217 M AFC (HEPA filter available in the USA)



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= Dust-Free

How M-Class Dust Extractors Work

M-Class certification requires active measurement of the airflow as a safety feature

A visual and audible warning must activate when airflow drops below 20 m/s. To ensure the warning comes at the right time, ensure that you have selected the correct hose diameter on your DEXOS. Changing to a smaller hose diameter may delay the warning, but would not be according to the M-Class standard requirements.

Factors affecting airflow or the speed setting on the DEXOS:

- Hose diameter (should be set to 32 mm for correct airflow calculation)
- Bag size and clogging (fine dust = faster clogging)
- Dirty filters or blockages in the hose



Common User Challenges

Misconceptions

'The extractor beeps'



Reality/Solutions

The alarm activates when airflow drops below 20 m/s to ensure safety. It's not a flaw but a warning system to alert you to the potential of exposure to harmful dust.

'Bags fill up too fast'



Fine dust (like MDF or cement) clogs bags quicker than larger debris. Regular bag replacement is necessary for optimal performance.

'Why do I need M-Class?'



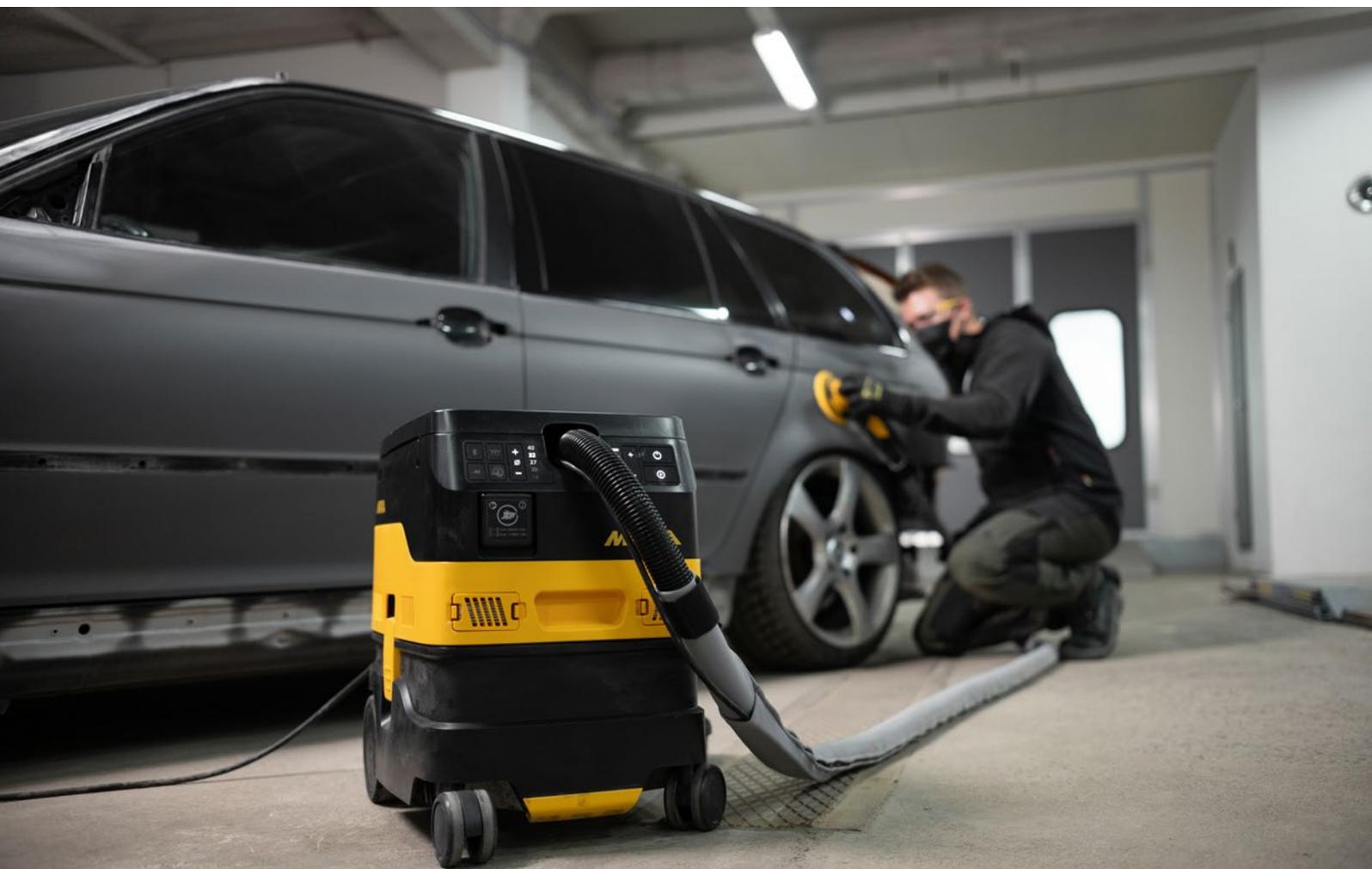
M-Class is required for medium-risk dust (e.g., hardwood, silica). It ensures compliance with safety regulations and protects against respiratory hazards.

Tips for Maintaining Optimal Airflow

- 1.** Check and clean filters regularly.
- 2.** Ensure the hose is free from blockages.
- 3.** Use the correct hose diameter. Our standard hose is 32 mm.
- 4.** Replace dust bags when airflow reduces.
- 5.** Understand that early warnings help prevent overexposure to harmful dust.



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