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).

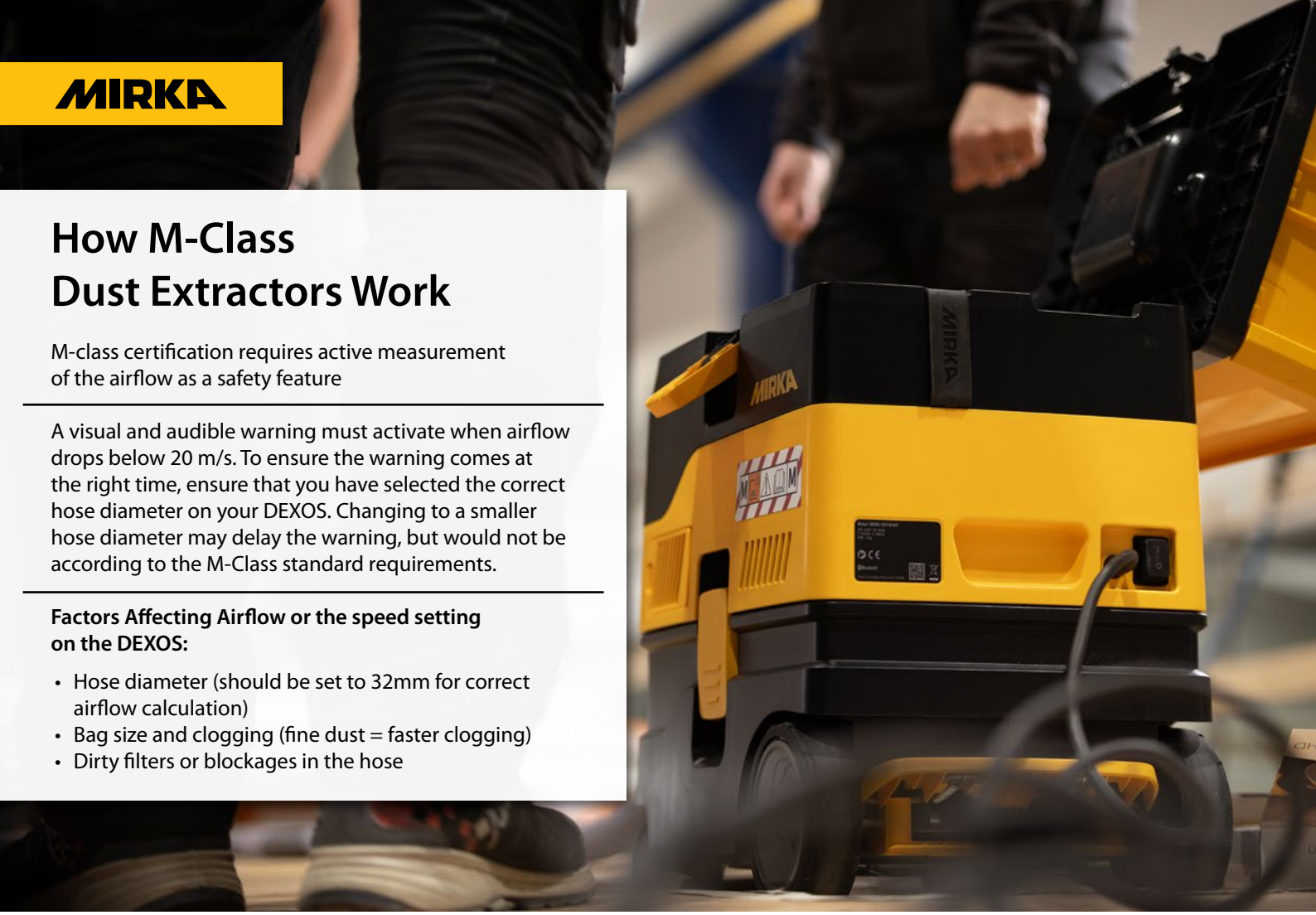
Why it Matters: Essential for workplace health & safety compliance.

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

Classes

L-Light	Dust representing a low risk. The dust extractor filter capture at least **99%** of dust with a grain size of 2 microns.	Soft woods as Pine, Spruce, Cedar, Larch and Fir. Gypsum, Plasterboard/ Drywall. Solid surface (Corian).	DE 1025 L, 1125 L, 1230 L (HEPA filter also available for 1230 L)
M-Medium	Dust representing a moderate risk. The filter traps more than **99,9%** of dust with a size of 2 microns.	Hardwoods as Oak, Mahogany, Maple, Cherry. Oilpaints. Plastics.	Mirka DEXOS 1217 M AFC, DE 1230 M, 1242 M, (HEPA filter also available)

 +  +  +  **= 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 32mm for correct airflow calculation)
- Bag size and clogging (fine dust = faster clogging)
- Dirty filters or blockages in the hose

Common User Challenges

Misconceptions		Reality/Solutions
"The extractor beeps"	→	The alarm activates when airflow drops below 20m/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.

MIRKA

Tips for Maintaining Optimal Airflow

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

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