

ATEX ZONE 21 • DELFIN • MOBILE HANDHELD DUST COLLECTOR

Delfin DM2 EL 1/2D ATEX

Robust mobile dust collector certified for ATEX Zone 21 combustible dust. 100 L tank in stainless steel AISI304. H14 HEPA filter included. Manual filter cleaning. ESD accessory kit included — ideal for mobile operations in hazardous areas.

- ATEX Zone 21 third-party certified per EN 17348 DT
- Category 1/2D — approved for combustible dust (dust zones 20/21)
- H14 HEPA absolute filter for 99.995% particle retention at MPPS
- Single-phase vacuum motor dust-tight IP64 — simple and reliable
- Large 100 L collection tank in stainless steel AISI304
- Manual filter cleaning — no electric mechanism, lower maintenance



Delfin DM2 EL 1/2D ATEX Zone 21 mobile dust collector for combustible dust

ATEX II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db · EN 17348 DT — Combustible dust collection · IMQ — Notified body / IECEx certification · IP64 (vacuum head)

Key Facts	
Category	ATEX 1/2D
Zone	Zone 21
Power	2.2 kW
Airflow	430 m³/h
Max vacuum	2,250 mmH ₂ O
Noise	76 dB(A)
Tank	100 L
Weight	87 kg

Features and Technology

Delfin DM2 EL 1/2D ATEX is a robust mobile dust collector designed for permanent installation or portable operation in ATEX Zone 21 areas (and Zone 20 internal). Zone 21 means explosive combustible dust atmospheres may occur 10-1,000 hours per year under normal operating conditions, requiring robust and certified design. The machine is third-party certified by IMQ per EN 17348 DT (Dry Type Dust Collector) and EU Directive 2014/34/EU as category 1/2D, meaning it is approved for combustible dust (dust zones 20/21).

The single-phase vacuum motor is designed as a dust-tight IP64 enclosure (Ex tb) for maximum safety in hazardous areas. Manual filter cleaning means the H14 HEPA filter is cleaned by physical tapping or squeezing without complex electric mechanisms, reducing maintenance requirements and ensuring reliability. The 100 L collection tank in stainless steel AISI304 provides significantly greater capacity than smaller models. 430 m³/h airflow and 2,250 mmH₂O maximum vacuum make the DM2 EL 1/2D suitable for mobile dust collection tasks in industrial processes, pharma, chemicals, and explosive dust silos.

The ESD accessory kit (TA.1305.0000) is included as standard, ensuring electrostatic grounding in ATEX-certified areas. Robust design and simple mechanisms make the machine ideal for field use without specialized

technicians.

Zone 21 certification: This unit is third-party certified by IMQ (accredited notified body) for Zone 21 operation. Category 1/2D provides the highest safety level for combustible dust. You receive full EU documentation, technical file, and original certification. Installation must be performed per ATEX guidelines.

Technical Specifications

Parameter	Value
ATEX certification	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db
ATEX category	1/2D — Zone 21 external / Zone 20 internal
Standard	EN 17348 DT — Combustible dust collection
Motor type	Single-phase vacuum motor (Ex tb Dust Tight IP64)
Power	2.2 kW
Voltage	115/230 V, 50/60 Hz, single-phase
Current	16 A
Max airflow	430 m³/h
Max vacuum	2,250 mmH ₂ O
Suction inlet	Ø80 mm
Filter type	Star/pocket, polyester ANT M (antistatic)
Filter medium	H14 HEPA absolute filter — 99.995% at MPPS
Primary filter area	30,000 cm², Ø500 mm
Air load on filter	143 m³/m²/h
HEPA filter area	26,000 cm²
Filter cleaning	Manual (tapping)
Noise level	76 dB(A) per EN ISO 3744
Tank capacity	100 L
Construction	Stainless steel AISI304
IP class	IP64 (vacuum head)
Dimensions (L×W×H)	66×83×159 cm
Weight	87 kg
Included accessories	ESD accessory kit (TA.1305.0000)

CONTACT

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