

ATEX ZONE 21 • DELFIN • MOBILE COMPACT HIGH-CAPACITY

Delfin MTL201 1/2D LP

Mobile dust collector certified for ATEX Zone 21 with Longopac continuous bags for dust-free emptying. Compact design. H14 HEPA filter included. Third-party certified — ideal for continuous collection of hazardous dust without operator exposure during emptying.

- ATEX Zone 21 third-party certified per EN 17348:2022
- Category 1/2D — approved for both Zone 1 gas and Zone 21 dust
- Longopac continuous bags for dust-free emptying without operator exposure
- H14 HEPA absolute filter for 99.995% particle retention
- Single-phase vacuum motor — flexible power supply (115/230 V)
- Compact and mobile — 70 kg, 215 m³/h airflow



Delfin MTL201 1/2D LP Zone 21 dust collector with Longopac continuous bags

ATEX II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db · EN 17348:2022 DT — Combustible dust collection · IMQ — Notified body
· IP64 (vacuum head)

Key Data	
Category	ATEX 1/2D
Zone	Zone 21
Power	1.1 kW
Airflow	215 m³/h
Max vacuum	2,250 mmH ₂ O
Noise	74 dB(A)
Tank	20 L
Weight	70 kg

Features and Technology

The Delfin MTL201 1/2D LP is a mobile dust collector designed for permanent installation in ATEX Zone 21 areas. Zone 21 means explosive dust-air mixtures can occur 10-1,000 hours per year under normal operation — a higher risk than Zone 22 requiring more robust construction. The unit is third-party certified per EN 17348:2022 and EU Directive 2014/34/EU as category 1/2D, meaning it is approved for both gas (Zone 1) and dust (Zone 21) explosive atmospheres.

The central innovation of the MTL201 1/2D LP is the Longopac continuous bag system for dust-free emptying. The bag rolls continuously during collection, and when full, the system automatically advances to the next layer without manual handling of hazardous dust. This completely eliminates operator exposure during emptying — critical in Zone 21 environments. The H14 HEPA filter ensures 99.995% particle retention even at very high concentrations. The single-phase vacuum motor provides flexibility for different power supplies (115/230 V).

The compact design (80 x 66 x 157 cm, 70 kg) makes the unit mobile and easy to position in different areas. With 215 m³/h airflow and 2,250 mmH₂O maximum vacuum, it is ideal for continuous collection of hazardous dust from process equipment, silos, and other Zone 21 sources. The 20 L collection hopper is sized for efficient

emptying without frequent handling.

Zone 21 Certification: This unit is third-party certified by IMQ, an accredited notified body, for Zone 21 operation. Category 1/2D represents the highest safety level. You receive complete EU documentation, technical file, and original certification. Installation must follow 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	EX 21 1/2D — Zone 21 external / Zone 20 internal
Zone approval	Zone 1 gas + Zone 21 dust
Standard	EN 17348:2022 DT — Combustible dust collection
Motor type	Single-phase vacuum motor — Ex tb IP64
Power	1.1 kW
Current	8 A
Voltage	115/230 V, 50/60 Hz, single-phase
Max airflow	215 m³/h
Max vacuum	2,250 mmH ₂ O
Inlet	Ø80 mm (LP variant with larger inlet)
Filter type	H14 HEPA absolute filter — 99.995% at MPPS
Filter medium	Star/pocket filter, polyester ANT M
Filter surface	30,000 cm², Ø500 mm
HEPA filter surface	26,000 cm²
Filter cleaning	Manual
Emptying system	Longopac continuous bags — included
Hopper	Conductive powder-coated collection container
Tank capacity	20 L
Noise level	74 dB(A) per EN ISO 3744
IP class	IP64 (vacuum head)
Dimensions (W x D x H)	80 x 66 x 157 cm
Weight	70 kg
Accessories included	Accessory kit TA.0527.0000

CONTACT

Particulair — Life Science Hub

Nordic specialist in industrial vacuum for pharma & life science

Højtoften 12, 2690 Karlslunde, Denmark

Tel: +45 70 23 12 03 · sales@particulair.com · particulair.eu/life-science/