

DELFIN · II 1/2D EX H TB IIIC T80°C (INT) / T95°C (EXT) DA/DB

Delfin DM2 1/2D



The Delfin DM2 1/2D is an ATEX-certified single-phase vacuum for Zone 21-classified areas with internal Zone 20 (classification 1/2D Da/Db). Two brushless motors in parallel deliver 430 m³/h and suit intensive, continuous use -- brushless technology eliminates carbon brushes and reduces maintenance. A 100 L stainless AISI 304 container and standard HEPA H14 filter provide high collection capacity and air quality.

APPLICATIONS

- Continuous collection in Zone 21-classified production areas
- Pharmaceutical production with active substances in ATEX Zone 21
- Pigment and dye handling with ATEX classification
- Metal powder and fine chemical production with high duty cycles
- Battery factories with combustible electrode powder

Technical specifications

ATEX marking	II 1/2D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Db
Internal / external zone	20 / 21
Motor type	2 brushless-motorer i parallel
Airflow	430 m ³ /h
Vacuum	221 mbar (2250 mmH ₂ O)
Container	100 L
Sound pressure	76 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822-5), 99,995 % MPPS, 26.000 cm ²
Primary filter	Stjerne/taske polyester ANT M-klasse antistatisk, 30.000 cm ² , Ø 500 mm
Collection system	Synthetic safebag
Material	AISI 304
Power	2.2 kW
Current	16 A
Voltage	115/230 V / 50-60 Hz
Inlet	Diameter 80 mm
Dimensions (L x W x H)	660 x 830 x 1590 mm
Weight	87 kg

Questions and answers

What does the 1/2D Da/Db marking mean?

1/2D means Category 1 (Zone 20) internally and Category 2 (Zone 21) externally for dust. Da/Db are the corresponding EPLs. In practice: the container interior may have a permanently explosive atmosphere, and the appliance may be placed in a Zone 21 area (occasional explosive atmosphere during normal operation).

Why brushless motors instead of bypass?

Brushless motors have no carbon brushes and generate less heat and noise during long operating hours. They cost more to purchase, but service life and operational reliability are significantly higher under intensive use -- therefore they are standard on 1/2D models, where the zone class typically reflects frequent operation.

Does the DM2 1/2D comply with EN 17348:2022?

Yes. The DM2 1/2D meets EN 17348:2022 -- the harmonized standard for industrial vacuums handling combustible dust in ATEX-classified environments.

Can the DM2 1/2D run on 115 V?

Yes. The voltage specification is 115/230 V 50-60 Hz, so the model can be used in productions with US 115 V supply. Note that current draw (16 A) is higher at 115 V than at 230 V.

Contact and advisory

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