

DELFIN · II 1/3D EX H TB IIIC T80°C (INT) / T95°C (EXT) DA/DC

Delfin DM2 EL 1/3D



The Delfin DM2 EL 1/3D is an ATEX-certified single-phase vacuum for collecting combustible dust in Zone 22-classified areas with internal Zone 20 (classification 1/3D Da/Dc). Two bypass motors in parallel deliver 360 m³/h airflow without requiring three-phase power. Construction is Dust Tight IP64-certified with stainless AISI 304 container and standard HEPA H14 filter. Suitable for periodic cleaning and material collection in ATEX zones.

APPLICATIONS

- Periodic cleaning in Zone 22-classified production halls
- Wood-dust and MDF-dust collection in ATEX-classified timber industry
- Grain handling and food production in ATEX Zone 22
- Metallurgical dust and polyester shavings in ATEX-classified workshops
- Smaller production units where only single-phase 230 V is available

Technical specifications

ATEX marking	II 1/3D Ex h tb IIIC T80°C (Int) / T95°C (ext) Da/Dc
Internal / external zone	20 / 22
Motor type	2 bypass-motorer i parallel
Airflow	360 m ³ /h
Vacuum	245 mbar (2500 mmH ₂ O)
Container	60 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	10 A
Voltage	230 V / 50-60 Hz
Inlet	Diameter 80 mm
Dimensions (L x W x H)	660 x 700 x 1480 mm
Weight	79 kg

Questions and answers

What does the 1/3D Da/Dc marking mean?

1/3D means the machine is certified for Category 1 (Zone 20) internally and Category 3 (Zone 22) externally for dust (D = Dust). Da/Dc are the corresponding EPLs (Equipment Protection Levels). In practice: the container interior may have a permanently explosive atmosphere, and the appliance may be placed in a Zone 22 area.

Does the DM2 EL 1/3D comply with EN 17348:2022?

Yes. The DM2 EL 1/3D meets EN 17348:2022 -- the harmonized standard for industrial vacuums handling combustible dust in ATEX-classified environments.

Can I use the DM2 EL 1/3D in Zone 21?

No. The DM2 EL 1/3D is certified for Zone 22 externally (Category 3, Dc). If your area is Zone 21, choose a 1/2D model -- for example the DM2 1/2D or DM2 EL 1/2D LP.

Why two motors?

Two single-phase bypass motors in parallel deliver roughly double the airflow of one motor without requiring three-phase power. This suits workshops and smaller production areas where only single-phase 230 V is available.

Contact and advisory

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