

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

Delfin MTL 201 1/2D



The MTL 201 1/2D is the compact 20-litre sibling of the 301 1/2D, built for the stricter ATEX dust zones where an explosive dust atmosphere is likely during normal operation. A brushless motor without carbon brushes ensures longer life under frequent or extended use, and the 115/230 V supply makes the model suitable for both European and US installations where three-phase power is not available.

APPLICATIONS

- Continuous or frequent collection of combustible dust in Zone 21 -- smaller areas
- Emptying and cleaning of bag-filling stations in pharmaceutical or chemical production
- Smaller production lines with regular dust generation
- Cleaning of dust-filter units and cyclones in Zone 21
- Process-adjacent dust collection where three-phase power is unavailable

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	1 brushless-motor (1,1 kW)
Airflow	215 m³/h
Vacuum	221 mbar (2250 mmH ₂ O)
Container	20 L
Sound pressure	74 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822), 99,995 % MPPS, 11.000 cm²
Primary filter	Cartridge polyester ANT M-klasse antistatisk, 30.000 cm², Ø 360 mm -- Dustop
Collection system	Plastic bag
Material	AISI 304
IP class	IP64
Power	1.1 kW
Current	8 A
Voltage	115/230 V / 50-60 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	520 x 630 x 1120 mm
Weight	32 kg

Questions and answers

What is the difference between 1/2D and 1/3D?

Both have internal Zone 20, but the external zone differs. 1/2D is permitted in Zone 21 (explosive dust atmosphere likely during normal operation), while 1/3D is permitted only in Zone 22 (rare/short). 1/2D is therefore the stricter class.

Why a brushless motor rather than bypass?

Brushless motors have no carbon brushes and therefore no spark generation in the motor. This yields both longer life and better suitability for continuous operation, matching Zone 21's requirements for equipment that may run during normal operation in the classified zone.

Why 115/230 V rather than only 230 V?

Delfin's brushless motor is built for both 115 V (US standard) and 230 V (European standard) with the same motor, making the model international. The 1/3D variant runs only at 230 V because bypass motors are typically wound for a single mains voltage range.

Can it be used in Zone 22?

Yes. A 1/2D-marked vacuum may also be used in less stringent zones such as Zone 22. The reverse does not apply: a 1/3D must NOT be used in Zone 21.

Contact and advisory

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