

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

Delfin MTL 301 1/3D



The MTL 301 1/3D is certified for areas where an explosive dust atmosphere occurs only briefly or rarely during normal operation (Zone 22), and where the vacuum's internals must withstand a continuous atmosphere (Zone 20). The single-phase bypass motor delivers flexibility for cleaning tasks in warehouses, production aisles and service booths -- without requiring three-phase power.

APPLICATIONS

- Periodic cleaning of floors and machinery surfaces in Zone 22 areas
- Warehouses and production halls with occasional dust accumulation
- Service booths and technical rooms in dusty industrial environments
- Post-shift cleanup where dust has settled but can be disturbed
- Small- and medium-sized production cells with combustible dust

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	1 bypass-motor (1,1 kW)
Airflow	180 m³/h
Vacuum	245 mbar (2500 mmH ₂ O)
Container	40 L
Sound pressure	74 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822), 99,995 % MPPS, 11.000 cm²
Primary filter	Stjerne/taske polyester ANT M-klasse antistatisk, 4.000 cm², Ø 360 mm
Collection system	Synthetic safebag
Material	AISI 304
IP class	IP64
Power	1.1 kW
Current	5 A
Voltage	230 V / 50-60 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	440 x 420 x 840 mm
Weight	26 kg

Questions and answers

What does the marking II 1/3D mean?

"II" means surface installation (not mining), "1" indicates the internal category (Zone 20 -- continuous dust atmosphere inside the vacuum), "3" indicates the external category (Zone 22 -- rare/short dust atmosphere outside the vacuum), and "D" stands for dust. The digits 1 and 2 in this symbol have nothing to do with gas.

Why is the motor a bypass motor?

Bypass motors suit periodic use where the vacuum runs in bursts with pauses in between. They are powerful relative to their size but are not designed for continuous multi-hour operation -- for that you need a three-phase side-channel blower or a brushless motor.

Can it also be used in Zone 21?

No. The MTL 301 1/3D is certified for Zone 22 externally. For cleaning in Zone 21, where an explosive dust atmosphere is likely during normal operation, choose the MTL 301 1/2D or another model marked II 1/2D.

Does it comply with EN 17348:2022?

Yes. The Delfin MTL 301 1/3D is built to meet EN 17348:2022, the harmonized standard for industrial vacuums handling combustible dust in ATEX-classified environments. The standard was harmonized under the ATEX Directive in March 2023.

Contact and advisory

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/atex-dust/mtl-301-1-3d/

SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.