DELFIN · ACD EX 1/- D (INTERN KONSTRUKTION SVARENDE TIL ZONE 20 PER IEC 60335-2-69 ANNEX AA)

Delfin MTL 302 ACD

The MTL 302 ACD is built to collect combustible dust in production areas that are not ATEX-classified but where the dust itself poses an ignition risk. Two bypass motors connected in parallel deliver substantial airflow without requiring three-phase power, and the internal construction follows IEC 60335-2-69 Annex AA, so the dust container is treated as Zone 20 regardless of the surrounding environment.

APPLICATIONS

- 3D-printing workshops handling metal powder or polymer dust
- Bakeries and flour mills working with flour dust
- Powder coating outside ATEX-classified booths
- Food production involving sugar, spice or dry-milk dust
- Battery and electronics workshops with combustible fine dust

Technical specifications

ATEX marking	ACD EX 1/- D (intern konstruktion svarende til Zone 20 per IEC 60335-2-69 Annex AA)
Internal / external zone	20 / ikke-ATEX
Motor type	2 bypass-motorer i parallel (2 × 1,1 kW)
Airflow	360 m³/h
Vacuum	245 mbar (2500 mmH_2O)
Container	40 L
Sound pressure	74 dB(A)
Filter class	H class
Filter type	HEPA H14 (EN 1822), 99,995 % MPPS, 26.000 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	2.2 kW
Current	10 A
Voltage	230 V / 50-60 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	440 x 420 x 780 mm
Weight	25 kg

Questions and answers

Can the MTL 302 ACD be used in an ATEX-classified Zone 22?

No. The MTL 302 ACD is certified to IEC 60335-2-69 Annex AA and is intended only for areas that are NOT ATEX-classified. If your area is classified as Zone 22 or stricter, choose a model from our ATEX range.

Why does it have two motors instead of one?

Two bypass motors in parallel deliver roughly double the airflow without requiring three-phase power. This suits workshops and smaller production areas where only single-phase 230 V is available, but where the task demands more suction than a single 1.1 kW motor can provide.

Why is the internal part called Zone 20 when the surrounding area is non-ATEX?

Inside the dust container, a continuous explosive dust atmosphere exists by definition during operation -- that qualifies it as Zone 20. IEC 60335-2-69 Annex AA requires that the vacuum's internals safely handle this atmosphere even when the surrounding environment is non-ATEX.

What is the difference between ACD and ATEX?

ACD (Appliance for Combustible Dust) covers vacuums for combustible dust in areas that are NOT ATEX-classified -- typically because the operating pattern or dust quantity does not trigger classification. ATEX vacuums are certified to the ATEX Directive (2014/34/EU) and may be used in classified zones. See the article "ACD vacuum cleaner -- when and why" for a deeper explanation.

Contact and advisory

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