

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

Depureco ECOBULL T ACD



The Depureco ECOBULL T ACD is the most versatile side-channel in the ECOBULL range: three-phase 400 V, 3 kW, 65 L container and 340 m³/h airflow at 230 mbar vacuum -- enough to run continuously through an 8-hour shift on a powder-coating line or at a fixed machine station. It is built for the operation that has three-phase power brought out and combustible dust in medium quantities, but doesn't need the PUMA production-line footprint.

APPLICATIONS

- Powder-coating installations with continuous shift operation
- Cyclone collection behind large spray booths
- Wood mill and biomass handling with moderate air volume
- Smaller 3D-printing serial production at higher volume
- Electrode production for li-ion cells

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	Sidekanalblaeser 3-fase (3 kW)
Airflow	340 m ³ /h
Vacuum	230 mbar (2345 mmH ₂ O)
Container	65 L
Sound pressure	72 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 24.000 cm ² (HEPA H14 24.000 cm ² som tilvalg, relief valve inkluderet)
Primary filter	Stjernefilter antistatisk polyester klasse M. 24.000 cm ²
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	3.0 kW
Voltage	400 V / 50 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	660 x 800 x 1530 mm
Weight	88 kg

Questions and answers

Why is the Depureco ECOBULL T ACD a better choice than a standard industrial vacuum?

Because a side-channel blower, unlike a bypass motor, can run 8 hours in a row without thermal overload. The Depureco ECOBULL T ACD delivers 340 m³/h at 230 mbar continuously, and the ACD-certified construction per IEC 60335-2-69 Annex AA keeps the internal Zone 20 capacity intact even under prolonged duty. A standard industrial vacuum would overload the motor within hours in the same environment.

Why this specific motor and phase configuration?

Side-channel blowers are the only motor technology that can run continuously for hours without overheating. The ECOBULL range delivers this capacity in a mobile format, unlike the stationary dust collectors normally used for the same task. Model-specific variations (1-phase on ECOBULL M, 3-phase on T/PLUS, different motor sizes) cover needs from small workshops up to mid-size production lines.

What types of dust is the Depureco ECOBULL T ACD actually intended for?

Continuous process dust in mid-capacity: powder-coating surplus, fine swarf from CNC stations, wood-mill and biomass dust, fine flour dust in food production. The Depureco ECOBULL T ACD is built to run long shifts without the motor needing rest, which is the critical difference to the bypass-based MTL and MINIBULL ranges.

What is the difference between ACD and ATEX?

ACD is the IEC 60335-2-69 Annex AA certification for combustible dust in non-ATEX-classified areas. Many powder-coating installations and mid-size production environments are not formally ATEX-classified because the dust concentration does not reach the classification threshold -- but the dust itself can ignite, and ACD equipment must be used. ATEX is for formally classified zones per Directive 2014/34/EU.

Contact and advisory

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