

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

# Depureco ECOBULL M ACD



The Depureco ECOBULL M ACD is the only side-channel blower in the range available as single-phase 230 V -- a deliberate choice for workshops and smaller production environments that lack three-phase power but need the continuous duty a side-channel provides. With 240 m<sup>3</sup>/h at 230 mbar and a 65 L container, it is a real alternative to a stationary dust collector for powder-coating stations and smaller process equipment. The IEC 60335-2-69 Annex AA certification holds the internal Zone 20 construction in place.

## APPLICATIONS

- Powder-coating installations with continuous shift operation
- Cyclone collection behind large spray booths
- Fixed machine stations in mid-size metalworking
- Smaller 3D-printing serial production at higher volume
- Electrode production for li-ion cells

# Technical specifications

<b>ATEX marking</b>	ACD EX 1/- D (intern konstruktion svarende til Zone 20 per IEC 60335-2-69 Annex AA)
<b>Internal / external zone</b>	20 / ikke-ATEX
<b>Motor type</b>	Sidekanalblaeser 1-fase (1,8 kW)
<b>Airflow</b>	240 m <sup>3</sup> /h
<b>Vacuum</b>	230 mbar (2345 mmH <sub>2</sub> O)
<b>Container</b>	65 L
<b>Sound pressure</b>	74 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Stjernefilter antistatisk polyester klasse M, 24.000 cm <sup>2</sup> (HEPA H14 24.000 cm <sup>2</sup> som tilvalg, relief valve inkluderet)
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M. 24.000 cm <sup>2</sup>
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staalkonstruktion, AISI 304 stoevbeholder
<b>IP class</b>	IP55
<b>Power</b>	1.8 kW
<b>Voltage</b>	230 V / 50-60 Hz
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	660 x 800 x 1530 mm
<b>Weight</b>	85 kg

# Questions and answers

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## Why is the Depureco ECOBULL M 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 M ACD delivers 240 m<sup>3</sup>/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 M 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 M 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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