

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

Depureco BL-PRO ACD



The Depureco BL-PRO ACD is a compact 45-litre industrial vacuum built around a brushless motor -- the type of motor that lasts up to four times longer than a traditional carbon-brush motor and runs noticeably quieter. It delivers 220 m³/h and 230 mbar on 230 V, sufficient for laboratory collection, dental-technical workshops and other environments where lower noise exposure matters more than raw suction. Inside the machine, the dust container is treated as Zone 20 per IEC 60335-2-69 Annex AA.

APPLICATIONS

- Quiet laboratory environments requiring low acoustic impact
- Dental-technical workshops with fine precious-metal dust
- R&D; departments where motor life matters more than raw suction
- Medical-technical cleanrooms and cleanroom-adjacent environments
- Tank laboratories and smaller pharmaceutical workshops

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	1 brushless-motor (1,1 kW)
Airflow	220 m ³ /h
Vacuum	230 mbar (2345 mmH ₂ O)
Container	45 L
Sound pressure	72 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 6.000 cm ² (HEPA H14 22.000 cm ² som tilvalg)
Primary filter	Stjernefilter antistatisk polyester klasse M. 6.000 cm ²
Collection system	Synthetic safebag
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
Power	1.1 kW
Voltage	230 V / 50-60 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	516 x 545 x 1050 mm
Weight	38 kg

Questions and answers

Why is the Depureco BL-PRO ACD a better choice than a standard industrial vacuum?

Brushless motors have no carbon brushes that wear, giving longer motor life and significantly reduced spark formation in operation. Combined with the antistatic filter fabric and the ACD-certified construction per IEC 60335-2-69 Annex AA, this means the Depureco BL-PRO ACD is significantly safer and more reliable than a standard brush-motor vacuum in combustible-dust environments.

Why this specific motor and phase configuration?

A brushless motor at 1.1 kW delivers 220 m³/h at 230 mbar in a quiet, long-lived format. The 1-phase 230 V supply means the model can be deployed anywhere without a three-phase installation. Unlike a 2-motor bypass solution (where two motors raise each other's noise frequency), the brushless motor holds 72 dB(A) even under full load.

What types of dust is the Depureco BL-PRO ACD actually intended for?

Combustible laboratory and workshop dust in small to medium quantities, where quiet operation and long motor life matter more than raw suction: dental precious-metal dust, R&D; powders, fine polymer dust from lab experiments, fine swarf from smaller CNC operations. For continuous duty on production lines a side-channel blower (ECOBULL range) is chosen instead.

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. ATEX is the 2014/34/EU Directive for formally classified zones. A laboratory or dental workshop is typically NOT ATEX-classified, but still works with combustible dust -- the Depureco BL-PRO ACD covers exactly that scenario without requiring zone classification of the room.

Contact and advisory

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