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

Depureco MINIBULL H ACD INERT

The Depureco MINIBULL H ACD INERT is the compact single-phase INERT solution for reactive metallic dust: two bypass motors, 45 L container and an integrated neutralising liquid bath that inactivates aluminium, titanium, magnesium and lithium dust at the moment of collection. Used on shooting ranges for lead collection, in 3D-printing laboratories with reactive metal powders, and in smaller R&D; environments where ATEX zone classification of the room is not practical. Internal Zone 20 construction per IEC 60335-2-69 Annex AA and INERT performance-tested to EN 17348:2022.

APPLICATIONS

- 3D-printing laboratories with reactive metal powder (Al, Ti, Mg)
- R&D; departments in defence industry and aerospace
- Smaller battery laboratories with lithium-metal handling
- Specialist processing in industrial research centres
- Temporary installations where a permanent ATEX zone is impractical

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 x 1,3 kW)
Airflow	380 m³/h
Vacuum	250 mbar (2550 mmH_2O)
Container	45 L
Sound pressure	72 dB(A)
Filter class	H class
Filter type	Cartridge klasse H13 antistatisk polyester + HEPA H14 slutfilter
Primary filter	Cartridge klasse H13 antistatisk polyester
Collection system	INERT neutralisation bath
Material	Lakeret staalkonstruktion, AISI 304 INERT-beholder med neutraliseringsbad
IP class	IP54
Power	2.6 kW
Voltage	230 V / 50-60 Hz
Inlet	Diameter 50 mm
Dimensions (L x W x H)	550 x 620 x 1400 mm
Weight	50 kg

Questions and answers

What does INERT technology mean for the Depureco MINIBULL H ACD INERT?

INERT technology means the Depureco MINIBULL H ACD INERT collects reactive metal dust in a neutralising liquid bath rather than in a dry bag or container. The dust is channelled directly into the liquid and inactivated instantly, before it can react with oxygen, heat or sparks. For single-phase small models like this one it is critical when handling reactive dust in small to medium quantities -- for example lead from shooting ranges or metal powder from 3D-printing laboratories.

What types of reactive dust is the Depureco MINIBULL H ACD INERT intended for?

Reactive metallic dust in small to medium quantities: lead and primer residue from shooting ranges, aluminium and aluminium alloys from 3D printing and CNC, titanium from medical and aerospace production, magnesium from light-metal machining, lithium metal from battery laboratories, plus pyrophoric powders from aerospace and defence. For smaller production volumes (e.g. a shooting-range chamber or a 3D-printing booth) this single-phase model fits precisely.

Is the INERT system tested to EN 17348:2022?

Yes. The entire Depureco INERT range is performance-tested to EN 17348:2022 -- the harmonised European standard for industrial vacuums in ATEX zones. The test confirms the neutralisation bath actually inactivates reactive dust under real operating conditions, not just in the laboratory. Documentation sent on request.

Why ACD rather than ATEX on this model?

ACD classification is used because many shooting ranges, 3D-printing laboratories and R&D; departments are NOT ATEX-classified rooms even though the dust is reactive. IEC 60335-2-69 Annex AA covers precisely that scenario: ACD approval of the machine without requiring ATEX zone classification of the area. For formally ATEX-classified zones an INERT variant exists in the ATEX Dust category.

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/acd/minibull-h-acd-inert/

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