

DELFIN · ACD (APPLIANCE FOR COMBUSTIBLE DUST PER IEC 60335-2-69 ANNEX AA) -- INTERN KONSTRUKTION SVARENDE  
TIL ZONE 20, EKSTERN IKKE-ATEX

## Delfin DM3 EL ACD



The Delfin DM3 EL ACD is a powerful single-phase vacuum for collecting combustible dust in areas that are NOT ATEX-classified. Three bypass motors connected in parallel deliver substantial airflow of 540 m<sup>3</sup>/h, and the internal construction follows IEC 60335-2-69 Annex AA, so the dust container is treated as Zone 20 even though the surrounding area is non-ATEX. Standard HEPA H14 filter ensures fine dust is not recirculated.

### APPLICATIONS

- Production areas with larger volumes of combustible dust without ATEX classification
- Metalworking workshops with aluminium or magnesium shavings
- Bakeries and flour mills with significant flour-dust load
- 3D-printing and additive manufacturing facilities with polymer dust
- Powder coating plants outside ATEX-classified booths

# Technical specifications

<b>ATEX marking</b>	ACD (Appliance for Combustible Dust per IEC 60335-2-69 Annex AA) -- intern konstruktion svarende til Zone 20, eksternt ikke-ATEX
<b>Internal / external zone</b>	20 / ikke-ATEX
<b>Motor type</b>	3 bypass-motorer i parallel
<b>Airflow</b>	540 m <sup>3</sup> /h
<b>Vacuum</b>	245 mbar (2500 mmH <sub>2</sub> O)
<b>Container</b>	60 L
<b>Sound pressure</b>	76 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822-5), 99,995 % MPPS, 26.000 cm <sup>2</sup>
<b>Primary filter</b>	Stjerne/taske polyester ANT M-klasse antistatisk, 30.000 cm <sup>2</sup> , Ø 500 mm
<b>Collection system</b>	Synthetic safebag
<b>Material</b>	AISI 304
<b>Power</b>	3.3 kW
<b>Current</b>	15 A
<b>Voltage</b>	230 V / 50-60 Hz
<b>Inlet</b>	Diameter 80 mm
<b>Dimensions (L x W x H)</b>	660 x 700 x 1350 mm
<b>Weight</b>	78 kg

# Questions and answers

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## Why three motors instead of one or two?

Three bypass motors in parallel deliver 540 m<sup>3</sup>/h of airflow without requiring three-phase power. This matches tasks where only single-phase 230 V is available but the dust volume demands more suction than a one- or two-motor setup can provide.

## Can the DM3 EL ACD be used in Zone 22?

No. The DM3 EL ACD is certified to IEC 60335-2-69 Annex AA and intended only for areas that are NOT ATEX-classified. If your area is Zone 22 or stricter, choose a model from our ATEX range (for example DM2 EL 1/3D).

## What is the real difference between ACD and ATEX?

ACD (Appliance for Combustible Dust) is built for combustible dust in areas that are NOT ATEX-classified. ATEX vacuums are certified to the ATEX Directive (2014/34/EU) and may be used in classified zones. The choice depends on whether the production area is zone-classified, not on the dust properties alone.

## What filtration is included?

The DM3 EL ACD ships with a star/pocket primary filter in polyester class M antistatic (30,000 cm<sup>2</sup>) and a standard HEPA H14 filter (EN 1822-5, 99.995 % MPPS, 26,000 cm<sup>2</sup> filter surface). Filter cleaning is manual via the integrated system.

# Contact and advisory

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## PARTICULAIR

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