

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

# Depureco M65 ACD



The Depureco M65 ACD is built for stationary duty in production halls: a 65-litre single-phase ACD vacuum with three bypass motors in parallel, delivering 570 m<sup>3</sup>/h at 250 mbar without requiring a three-phase supply. It targets the workshops where three-phase power hasn't been run out to the individual machine, but where the dust volume is large enough to warrant a dedicated collector. Internal Zone 20 construction per IEC 60335-2-69 Annex AA ensures combustible dust in the container does not become an ignition source for the surrounding area.

## APPLICATIONS

- Production halls with fixed grinding and polishing stations
- Mid-size powder-coating installations without a dedicated ATEX booth
- CNC production with larger aluminium or magnesium volumes
- Serial 3D printing on metal powder
- Battery-cell production with combustible electrode powder

# 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>	3 bypass-motorer i parallel (3 x 1,3 kW)
<b>Airflow</b>	570 m <sup>3</sup> /h
<b>Vacuum</b>	250 mbar (2550 mmH <sub>2</sub> O)
<b>Container</b>	65 L
<b>Sound pressure</b>	72 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 22.000 cm <sup>2</sup> som tilvalg)
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M. 24.000 cm <sup>2</sup>
<b>Collection system</b>	Synthetic safebag
<b>Material</b>	Lakeret staalkonstruktion, AISI 304 stoevbeholder
<b>IP class</b>	IP54
<b>Power</b>	3.9 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 1300 mm
<b>Weight</b>	80 kg

# Questions and answers

---

## Why is the Depureco M65 ACD a better choice than a standard industrial vacuum?

Because combustible dust in production volumes requires a dedicated ACD vacuum that cannot itself become the ignition source. The Depureco M65 ACD is built with three bypass motors in parallel, antistatic filter fabric and a reinforced AISI 304 container -- the whole construction is tested to IEC 60335-2-69 Annex AA to retain internal Zone 20 capacity even under prolonged duty.

## Why this specific motor and phase configuration?

Three bypass motors at 1.3 kW each deliver a combined 570 m<sup>3</sup>/h at 250 mbar -- an airflow that normally requires a three-phase side-channel, here on standard 230 V. The model is sized for production halls that haven't run three-phase power out to the individual station, but where the dust volume still demands a dedicated collector with substantial air capacity.

## What types of dust is the Depureco M65 ACD actually intended for?

Larger combustible dust volumes: powder-coating surplus, fine aluminium and magnesium swarf from CNC, fine process dust from foundries and forges, cellulose and wood dust from mills, fine flour dust from food production, electrode powder from battery manufacturing. For reactive metal dust in production volumes the INERT range is chosen instead.

## What is the difference between ACD and ATEX?

ACD (Appliance for Combustible Dust) is for non-ATEX-classified areas where the dust itself is combustible. ATEX is for formally classified zones per Directive 2014/34/EU. Many production halls are not ATEX-classified because duty is intermittent, but still use combustible dust -- the Depureco M65 ACD is specifically for that scenario.

# Contact and advisory

---

## PARTICULAIR

### Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: [sales@particulair.com](mailto:sales@particulair.com)

Web: [particulair.eu](http://particulair.eu)

**Product page:** [particulair.eu/ex-vac/en/acd/m65-acd/](http://particulair.eu/ex-vac/en/acd/m65-acd/)

---

## SMARTER THINKING • BETTER WORKING

This datasheet is generated deterministically from Particulair product data. Prices and availability provided on request. All specifications subject to change without notice.