

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

# Depureco PUMA HD 35P ACD



The Depureco PUMA HD 35P ACD is the absolute top of the HD range and Depureco's largest ACD vacuum: 25.3 kW motor with 1985 m<sup>3</sup>/h airflow and 310 mbar vacuum -- built for 24/7 operation in the most demanding process plants. Weight 654 kg, 110,000 cm<sup>2</sup> antistatic filter area, factory-fitted shaker and forklift inlets. Used in powder metallurgy, foundry dust and heavy metal-processing operations.

## APPLICATIONS

- Steelworks with 24/7 operation and continuous coarse-dust collection
- Foundries with magnetite, silica and mould sand in larger volumes
- Powder-metallurgy primary plants with sintered fine dust
- Continuous powder transfer in large process installations
- Plasma-cutting houses with heavy metal splatter and slag particles

# 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 3-fase (25,3 kW, flow-prioriteret) med cyklon
<b>Airflow</b>	1985 m <sup>3</sup> /h
<b>Vacuum</b>	310 mbar (3162 mmH <sub>2</sub> O)
<b>Container</b>	175 L
<b>Sound pressure</b>	78 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Stjernefilter antistatisk polyester klasse M. 110.000 cm <sup>2</sup> (HEPA H14 som tilvalg)
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M. 110.000 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>	25.3 kW
<b>Voltage</b>	400 V / 50 Hz
<b>Inlet</b>	Diameter 130 mm
<b>Dimensions (L x W x H)</b>	1050 x 1950 x 2300 mm
<b>Weight</b>	654 kg

# Questions and answers

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## Why is the Depureco PUMA HD 35P ACD a better choice than a standard industrial vacuum?

Because steelworks, foundries and powder metallurgy wear out ordinary PUMA models in a few months. The HD range has a reinforced frame over 560 kg, 110,000 cm<sup>2</sup> antistatic polyester filter area, factory-fitted electric shaker and integrated forklift inlets -- a category-level different robustness. The ACD certification per IEC 60335-2-69 Annex AA preserves internal Zone 20 capacity under extreme operating conditions.

## Why this specific motor and phase configuration?

A three-phase side-channel blower at 21.3-25.3 kW is the only motor configuration that can move the air quantities and handle the vacuum-demanding applications HD industry requires. The motor is overspecified for 24/7 duty with service intervals of several thousand hours, and the drivetrain is direct-coupled without drive belts requiring maintenance.

## What types of dust is the Depureco PUMA HD 35P ACD actually intended for?

The heaviest combustible dust fractions: coarse foundry sand, magnetite dust, slag particles, fine aluminium and titanium dust from rolling and stamping processes, powder-metallurgy fine fractions, fine metal particles from plasma and laser cutting. The HD range is chosen where a standard PUMA is undersized and where INERT protection is not required (the dust is combustible but not reactive).

## 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 plants. Most steelworks and foundries are not formally ATEX-classified, but the dust is still combustible and equipment must be certified. ATEX is the 2014/34/EU Directive for formally classified zones.

# Contact and advisory

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