

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

# Depureco PUMA 25 ACD



The Depureco PUMA 25 ACD is the top of the PUMA range without HD reinforcement: 18.5 kW motor with 1380 m<sup>3</sup>/h airflow -- the highest in the range -- and 320 mbar vacuum. It is sized for the most heavily loaded process installations, where 1380 m<sup>3</sup>/h must be pulled through a larger suction manifold or a long cyclone channel. ACD certification per IEC 60335-2-69 Annex AA means the internal construction is treated as Zone 20 despite the non-ATEX-classified environment outside.

## APPLICATIONS

- Heavy industry with three-shift duty and high dust volumes
- Foundries and forges with continuous fine sand and metal dust
- Military and police shooting ranges with high lead-collection demands
- Metalworking houses with plasma, laser and water cutting
- Powder-metallurgy plants with sintered powder and fine dust

# 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>	Sidekanalblæser 3-fase (18,5 kW) med cyklon
<b>Airflow</b>	1380 m <sup>3</sup> /h
<b>Vacuum</b>	320 mbar (3264 mmH <sub>2</sub> O)
<b>Container</b>	175 L
<b>Sound pressure</b>	74 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Stjernefilter antistatisk polyester klasse M, 45,000 cm <sup>2</sup> (HEPA H14 som tilvalg, relief valve og vacuum remote control inkluderet)
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M. 45.000 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>	18.5 kW
<b>Voltage</b>	400 V / 50 Hz
<b>Inlet</b>	Diameter 100 mm
<b>Dimensions (L x W x H)</b>	850 x 1550 x 1980 mm
<b>Weight</b>	370 kg

# Questions and answers

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## Why is the Depureco PUMA 25 ACD a better choice than a standard industrial vacuum?

Because heavy industry and three-shift duty require a vacuum built to hold up for years in 24/7 operation without breakdown. The PUMA range has a reinforced frame, tangential cyclone inlet that preserves cyclone effect throughout filter life, and a drivetrain sized for continuous heavy load. The ACD certification per IEC 60335-2-69 Annex AA keeps the internal Zone 20 capacity intact.

## Why this specific motor and phase configuration?

A three-phase side-channel blower at 7.5-18.5 kW is the only motor configuration that can handle the air quantities and vacuum levels heavy industry demands. The PUMA range offers different calibrations (P for flow, S for suction), so you match exactly your plant's profile. The 175 L container with tangential cyclone inlet ensures coarse dust does not burden the filter.

## What types of dust is the Depureco PUMA 25 ACD actually intended for?

Heavy industrial dust in production volumes: fine foundry sand, magnetite dust, metal swarf and slag particles from plasma cutting, powder-metallurgy fractions, shooting-range lead dust, fine metal particles from light-metal rolling. For smaller volumes choose the TX range; for reactive metal dust choose the INERT models.

## What is the difference between ACD and ATEX?

ACD is the certification for combustible dust in non-ATEX-classified industrial plants. Most steelworks, foundries and powder-metallurgy plants are not formally ATEX-classified even though the dust is combustible -- because the duty or dust concentration does not reach the classification threshold. ATEX is for formally classified zones per 2014/34/EU.

# Contact and advisory

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