

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

Depureco PUMA 10 ACD



The Depureco PUMA 10 ACD is the entry model in the heavy-industry range: 7.5 kW side-channel blower, 175 L collection container with tangential cyclone inlet and 730 m³/h airflow at 260 mbar vacuum. The PUMA construction is built for three-shift duty -- heavy frame, reinforced doors, wheels to roll 370 kg of dust out of the hall. IEC 60335-2-69 Annex AA holds the internal Zone 20 construction intact, so the dust in the container does not become an ignition source for the production environment.

APPLICATIONS

- Heavy industry with three-shift duty and high dust volumes
- Foundries and forges with continuous fine sand and metal dust
- Metalworking houses with plasma, laser and water cutting
- Battery-cell factories with combustible electrode powder
- Process installations with high loads of reactive fine dust

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	Sidekanalblaeser 3-fase (7,5 kW) med cyklon
Airflow	730 m ³ /h
Vacuum	260 mbar (2651 mmH ₂ O)
Container	175 L
Sound pressure	74 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 45,000 cm ² (HEPA H14 som tilvalg, relief valve og vacuum remote control inkluderet)
Primary filter	Stjernefilter antistatisk polyester klasse M. 45.000 cm ²
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	7.5 kW
Voltage	400 V / 50 Hz
Inlet	Diameter 100 mm
Dimensions (L x W x H)	850 x 1550 x 1980 mm
Weight	295 kg

Questions and answers

Why is the Depureco PUMA 10 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 10 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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