

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

Depureco TX 550S ACD



The Depureco TX 550S ACD is the suction variant of the TX 550 range: 5.5 kW motor calibrated to 440 mbar vacuum -- one of the highest in the TX range without HD reinforcement. Flow capacity at 330 m³/h is deliberately lower so the motor's energy is devoted to lifting heavy dust through long hoses. The model suits foundries with fine sand fractions, welding stations with metallic splatter and process plants with small inlets. IEC 60335-2-69 Annex AA preserves the Zone 20 capacity internally.

APPLICATIONS

- Continuous process duty in powder metallurgy and sintering
- Foundries with sand, mould and process dust
- Paper and cardboard production with fine cellulose dust
- Fixed grinding-machine stations with compressed-air-switched extraction
- CNC houses and milling centres with industrial extraction

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 (5,5 kW, sug-prioriteret)
Airflow	330 m ³ /h
Vacuum	440 mbar (4488 mmH ₂ O)
Container	100 L
Sound pressure	76 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 38.000 cm ² (SP/PSC/HEPA H14 som tilvalg, relief valve inkluderet)
Primary filter	Stjernefilter antistatisk polyester klasse M. 38.000 cm ²
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	5.5 kW
Voltage	400 V / 50 Hz
Inlet	Diameter 70 mm
Dimensions (L x W x H)	650 x 1100 x 1400 mm
Weight	155 kg

Questions and answers

Why is the Depureco TX 550S ACD a better choice than a standard industrial vacuum?

Because production-line collection requires a vacuum that can run 24/7 without human supervision. The TX range is a side-channel blower with 100 L tangential cyclone container, designed to sit fixed in the line and collect continuously through a cyclone inlet. The ACD certification per IEC 60335-2-69 Annex AA preserves the internal Zone 20 capacity, so combustible dust does not become an ignition source for the production environment.

Why this specific motor and phase configuration?

A three-phase side-channel blower is the only motor configuration that can run continuously 24/7 in a production flow. The TX range offers different motor sizes and flow/suction calibrations, letting you match exactly the suction profile your production plant requires -- from 3 kW to 7.5 kW, from 160 mbar flow-biased up to 440 mbar suction-biased.

What types of dust is the Depureco TX 550S ACD actually intended for?

Continuous process dust in production-line quantities: fine foundry sand, metal swarf from CNC and laser-cutting lines, powder-metallurgy fractions, cellulose dust from paper and wood industry, fine aluminium and magnesium dust from light-metal machining. The TX range is used where collection is a fixed part of the production flow, not a mobile task.

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 production halls. Most industrial plants are not formally ATEX-classified because dust concentration does not constantly exceed the classification threshold -- but a fine-dust ignition is still a realistic risk. ATEX is for formally classified zones per Directive 2014/34/EU and used in Zone 20/21/22.

Contact and advisory

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