

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

Depureco TX 550P ACD



The Depureco TX 550P ACD is the flow model in the TX 550 range with a 5.5 kW motor: 530 m³/h airflow at 260 mbar -- a considerable lift over the TX 400P, while keeping the same 100 L cyclone container. Used on production lines where air volume is the bottleneck, for example cyclone collection from a wood mill or a light-metal router. ACD certified per IEC 60335-2-69 Annex AA, so the internal construction is treated as Zone 20 regardless of the surrounding environment.

APPLICATIONS

- Dedicated production-line collection behind cyclone inlets
- Continuous process duty in powder metallurgy and sintering
- Conveyor belts with open or semi-open collection points
- Welding and plasma-cutting lines with metallic splatter
- Paper and cardboard production with fine cellulose 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	Sidekanalblæser 3-fase (5,5 kW, flow-prioriteret)
Airflow	530 m ³ /h
Vacuum	260 mbar (2651 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 550P 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 550P 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

PARTICULAIR

Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: sales@particulair.com

Web: particulair.eu

Product page: particulair.eu/ex-vac/en/acd/tx-550p-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.