

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

# Depureco TX 400S ACD



The Depureco TX 400S ACD is the suction variant of the TX 400 range: same 4 kW motor as the 400P, but calibrated to 360 mbar vacuum at the expense of airflow (330 m<sup>3</sup>/h here). S stands for suction and means the model is chosen for collection through long hoses, small inlets or heavy dust -- for instance metal and foundry sand -- where high vacuum is decisive. IEC 60335-2-69 Annex AA ensures that the internal Zone 20 construction matches the requirement for combustible dust.

## 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

<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 (4 kW, sug-prioriteret)
<b>Airflow</b>	330 m <sup>3</sup> /h
<b>Vacuum</b>	360 mbar (3672 mmH <sub>2</sub> O)
<b>Container</b>	100 L
<b>Sound pressure</b>	76 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Stjernefilter antistatisk polyester klasse M, 38.000 cm <sup>2</sup> (SP/PSC/HEPA H14 som tilvalg, relief valve inkluderet)
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M. 38.000 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>	4.0 kW
<b>Voltage</b>	400 V / 50 Hz
<b>Inlet</b>	Diameter 70 mm
<b>Dimensions (L x W x H)</b>	650 x 1100 x 1400 mm
<b>Weight</b>	140 kg

# Questions and answers

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## Why is the Depureco TX 400S 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 400S 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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