

DEPURECO · II 3D EX H IIIB T140 DC

# Depureco TX 400 Z22



The Depureco TX 400 Z22 is part of the TX Z22 range: three-phase side-channel blower 4 kW, 100 L AISI 304 container and 450 m<sup>3</sup>/h airflow at 230 mbar vacuum. TX is a dedicated production-line family of vacuums with 3x cartridge filter (90,000 cm<sup>2</sup>) and reverse jet cleaning as standard. The ATEX marking II 3D Ex h IIIB T140 Dc covers Zone 22 external -- combustible dust where the production environment does not reach category 1 or 2. Relief valve included to protect the motor from filter over-pressure. Suited to medium-sized and larger production plants with continuous dust generation, e.g. plastics production, paper industry or medium-sized powder coating.

## APPLICATIONS

- Medium-sized to larger production plants with continuous dust generation in Zone 22
- Plastics production and granulate fractions
- Paper industry with dust from cutting and packaging lines
- Powder coating in category 3 Zone 22 installations
- Fixed placement at production station with hose routing

# Technical specifications

<b>ATEX marking</b>	II 3D Ex h IIIB T140 Dc
<b>Internal / external zone</b>	22 / 22
<b>Motor type</b>	Sidekanalblaeser 3-fase (4 kW), ATEX-certificeret til kategori 3D
<b>Airflow</b>	450 m <sup>3</sup> /h
<b>Vacuum</b>	230 mbar (2345 mmH <sub>2</sub> O)
<b>Container</b>	100 L
<b>Sound pressure</b>	73 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	3x Cartridge antistatisk polyester klasse M, 90.000 cm <sup>2</sup> (HEPA H14 22.000 cm <sup>2</sup> som tilvalg, reverse jet cleaning og relief valve inkluderet)
<b>Primary filter</b>	3x Cartridge antistatisk polyester klasse M, 90.000 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 kW
<b>Voltage</b>	400 V / 50/60 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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## Is the Depureco TX 400 Z22 certified for Zone 21?

No. The TX 400 Z22 is marked II 3D Ex h IIIB T140 Dc -- Zone 22 external only. Zone 21 requires category 2D marking. If your production has classified Zone 21 areas, choose a 1/2D model (e.g. Depureco BL 45 DEX 1/2D or PUMA 10 DEX 1/2D).

## What is the difference between 3D and 1/3D?

The 3D marking (without 1/3D) means the machine is only certified to stand in Zone 22 external -- the internal collection compartment is NOT certified for ATEX. 1/3D means the internal compartment is also Zone 20 certified, which is necessary if the ingested dust itself poses an ignition risk inside the container. The TX Z22 range is 3D because the filter outlet prevents dust from reaching the motor, but the container is not certified as Zone 20. For internal Zone 20 choose e.g. the Depureco PUMA 10 DEX 1/3D.

## What filter system does the TX 400 Z22 have as standard?

Standard is a 3x cartridge filter in antistatic polyester M class with 90,000 cm<sup>2</sup> total filter surface. Cleaning is reverse jet -- a manual compressed-air pulse that cleans the cartridges without opening the machine. HEPA H14 22,000 cm<sup>2</sup> is optional for class H filtration. Automatic reverse jet is also optional (replaces the manual pulse with a timed pneumatic sequence).

## Can the TX 400 Z22 run on 60 Hz?

Yes. The side-channel blower is certified for 400 V 50/60 Hz, so it works both in Europe and on 60 Hz markets. Note that performance (airflow, vacuum) varies slightly between 50 and 60 Hz: at 60 Hz airflow rises by around 20 %, vacuum by around 44 %. Contact us for precise performance data at 60 Hz if you are exporting to North or South America.

# Contact and advisory

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## PARTICULAIR

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**Product page:** [particulair.eu/ex-vac/en/atex-dust/tx-400-z22/](http://particulair.eu/ex-vac/en/atex-dust/tx-400-z22/)

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