

DEPURECO · II 3D EX H IIIB T140 DC

Depureco TX 550 S Z22



The Depureco TX 550 S Z22 is part of the TX Z22 range: three-phase side-channel blower 5.5 kW, 100 L AISI 304 container and 320 m³/h airflow at 400 mbar vacuum. TX is a dedicated production-line family of vacuums with 3x cartridge filter (90,000 cm²) 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

ATEX marking	II 3D Ex h IIIB T140 Dc
Internal / external zone	22 / 22
Motor type	Sidekanalblaeser 3-fase (5.5 kW), ATEX-certificeret til kategori 3D
Airflow	320 m ³ /h
Vacuum	400 mbar (4079 mmH ₂ O)
Container	100 L
Sound pressure	73 dB(A)
Filter class	M class
Filter type	3x Cartridge antistatisk polyester klasse M, 90.000 cm ² (HEPA H14 22.000 cm ² som tilvalg, reverse jet cleaning og relief valve inkluderet)
Primary filter	3x Cartridge antistatisk polyester klasse M, 90.000 cm ²
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	5.5 kW
Voltage	400 V / 50/60 Hz
Inlet	Diameter 70 mm
Dimensions (L x W x H)	650 x 1100 x 1400 mm
Weight	150 kg

Questions and answers

Is the Depureco TX 550 S Z22 certified for Zone 21?

No. The TX 550 S 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 550 S Z22 have as standard?

Standard is a 3x cartridge filter in antistatic polyester M class with 90,000 cm² total filter surface. Cleaning is reverse jet -- a manual compressed-air pulse that cleans the cartridges without opening the machine. HEPA H14 22,000 cm² is optional for class H filtration. Automatic reverse jet is also optional (replaces the manual pulse with a timed pneumatic sequence).

Can the TX 550 S 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

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/atex-dust/tx-550s-z22/

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