

DEPURECO · II 3D EX H IIIC T160 DC

Depureco ECOBULL M ATEX SP 3D



The Depureco ECOBULL M ATEX SP 3D is the ECOBULL chassis with reverse-jet cartridge filter and pure 3D certification for Zone 22 external. Single-phase 1.8 kW side-channel blower, 65 L AISI 304 container and 240 m³/h airflow at 180 mbar vacuum. 3x cartridge antistatic polyester (90,000 cm²) with reverse jet cleaning and relief valve as standard. The ATEX marking II 3D Ex h IIIC T160 Dc covers Zone 22 external -- suited to stand-alone installation in powder coating, plastics production or pharma environments where Zone 22 is the only classified zone.

APPLICATIONS

- Powder coating in Zone 22 installations
- Plastics production and polymer fractions
- Pharma and API handling in Zone 22
- Medium-sized production stations requiring mobility
- Stand-alone collection at a single machine with reverse-jet continuity

Technical specifications

ATEX marking	II 3D Ex h IIIC T160 Dc
Internal / external zone	22 / 22
Motor type	Sidekanalblaeser 1-fase (1.8 kW, 230 V), ATEX-certificeret til kategori 3D
Airflow	240 m ³ /h
Vacuum	180 mbar (1835 mmH ₂ O)
Container	65 L
Sound pressure	74 dB(A)
Filter class	M class
Filter type	3x Cartridge antistatisk polyester klasse M, 90.000 cm ² , reverse jet cleaning + relief valve inkluderet
Primary filter	3x Cartridge antistatisk polyester klasse M, 90.000 cm ²
Cleaning system	Reverse jet cleaning (manuel puls)
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	1.8 kW
Voltage	230 V / 50-60 Hz
Inlet	Diameter 70 mm
Dimensions (L x W x H)	660 x 800 x 1630 mm
Weight	95 kg

Questions and answers

What does ATEX SP 3D mean in the model name?

SP stands for Self-Powered Cleaning -- integrated reverse jet with compressed-air pulse. 3D refers to the ATEX category: Zone 22 external (category 3D). The model is certified II 3D Ex h IIIC T160 Dc and can be installed stand-alone in a Zone 22 environment without an additional filter cleaning setup.

Is the ECOBULL M ATEX SP 3D certified for Zone 21?

No. The ECOBULL M ATEX SP 3D is pure 3D -- Zone 22 external only. For Zone 21 choose a 1/2D model, e.g. the Depureco BL 45 DEX 1/2D. For internal Zone 20 (combustible dust inside the container itself) choose a 1/3D model, e.g. the ECOBULL M DEX 1/3D.

What is the difference between ATEX SP 3D and DEX 1/3D?

SP 3D has a 3x cartridge filter with 90,000 cm² and reverse-jet cleaning included -- built for continuous operation with automatic filter cleaning. DEX 1/3D has a star filter 24,000 cm² with manual cleaning and is cheaper, but requires manual filter handling. SP 3D also has pure 3D marking (Zone 22 external only); DEX 1/3D has 1/3D marking (Zone 22 external + Zone 20 internal).

Is the 1.8 kW single-phase side-channel blower enough for my task?

The ECOBULL M ATEX SP 3D delivers 240 m³/h at 180 mbar -- sufficient for one to two stationary collection points with 3-5 m hose. For higher airflow choose the ECOBULL PLUS ATEX SP 3D (350 m³/h) or the TX range (350-550 m³/h). For a 100 mm inlet and heavy industrial duty, choose the PUMA DEX range.

Contact and advisory

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