

DEPURECO · II 1/3D EX H IIIC T160 DA/DC

Depureco ECOBULL T DEX 1/3D



The Depureco ECOBULL T DEX 1/3D is the ECOBULL chassis with 1/3D certification -- Zone 22 external and Zone 20 internal. Three-phase 3 kW side-channel blower, 65 L AISI 304 container and 340 m³/h airflow at 230 mbar vacuum. Star filter antistatic polyester (24,000 cm²) with manual cleaning and relief valve included. The ATEX marking II 1/3D Ex h IIIC T160 Da/Dc covers combustible dust collected internally under classified conditions (Zone 20 in the container) and Zone 22 external category 3. Typical use: powder coating, plastics, pharma where the dust itself poses an ignition risk inside the container.

APPLICATIONS

- Powder coating with internal Zone 20 collection
- Plastics and polymer production with combustible fractions
- Pharma and API handling with ATEX classification
- Medium-sized production stations requiring 1/3D certification
- Soft-metal and magnesium grinding chips in small quantities

Technical specifications

ATEX marking	II 1/3D Ex h IIIC T160 Da/Dc
Internal / external zone	20 / 22
Motor type	Sidekanalblaeser 3-fase (3 kW, 400 V)
Airflow	340 m ³ /h
Vacuum	230 mbar (2345 mmH ₂ O)
Container	65 L
Sound pressure	72 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 24.000 cm ² , manuel rens + relief valve inkluderet
Primary filter	Stjernefilter antistatisk polyester klasse M, 24.000 cm ²
Cleaning system	Manuel filterrens
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP55
Power	3 kW
Voltage	400 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 1/3D mean in the model name?

1/3D is the ATEX category: internal Zone 20 (category 1D) + external Zone 22 (category 3D). The machine may stand outside in Zone 22 and simultaneously collect combustible dust internally where the dust container itself presents a constant ignition risk (Zone 20).

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

DEX 1/3D has a star filter 24,000 cm² with manual cleaning -- cheaper, longer filter life, but requires periodic manual cleaning. ATEX SP 3D has a 3x cartridge filter 90,000 cm² with automatic reverse jet cleaning -- built for continuous operation without operator intervention. Most important: DEX 1/3D is 1/3D certified (internal Zone 20); ATEX SP 3D is only 3D (Zone 22 external).

What filter material and class does the ECOBULL T DEX 1/3D have?

Star filter antistatic polyester M class with 24,000 cm² filter surface. The antistatic coating conducts static charge away from the filter surface -- important in ATEX environment. M class is standard; H class HEPA H14 can be ordered as an option for hazardous or radioactive dust.

How large is the container on the ECOBULL T DEX 1/3D?

65 L AISI 304 container with low-level detachment -- pulled out below the machine for emptying. Grounding ensured via chassis bonding. Accessories include bag-in-container and safe-change BIBO if the dust must not contact the operator.

Contact and advisory

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