

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

# Depureco ECOBULL PLUS DEX 1/3D



The Depureco ECOBULL PLUS DEX 1/3D is the ECOBULL chassis with 1/3D certification -- Zone 22 external and Zone 20 internal. Three-phase 4 kW side-channel blower, 65 L AISI 304 container and 350 m<sup>3</sup>/h airflow at 270 mbar vacuum. Star filter antistatic polyester (24,000 cm<sup>2</sup>) 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

<b>ATEX marking</b>	II 1/3D Ex h IIIC T160 Da/Dc
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	Sidekanalblaeser 3-fase (4 kW, 400 V)
<b>Airflow</b>	350 m <sup>3</sup> /h
<b>Vacuum</b>	270 mbar (2753 mmH <sub>2</sub> O)
<b>Container</b>	65 L
<b>Sound pressure</b>	74 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Stjernefilter antistatisk polyester klasse M, 24.000 cm <sup>2</sup> , manuel rens + relief valve inkluderet
<b>Primary filter</b>	Stjernefilter antistatisk polyester klasse M, 24.000 cm <sup>2</sup>
<b>Cleaning system</b>	Manuel filterrens
<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>	660 x 800 x 1630 mm
<b>Weight</b>	95 kg

# Questions and answers

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## 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 cm<sup>2</sup> with manual cleaning -- cheaper, longer filter life, but requires periodic manual cleaning. ATEX SP 3D has a 3x cartridge filter 90,000 cm<sup>2</sup> 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 PLUS DEX 1/3D have?

Star filter antistatic polyester M class with 24,000 cm<sup>2</sup> 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 PLUS 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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## PARTICULAIR

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