

DEPURECO · II 1/3D EX HTC IIIC T140°C DA/DC

Depureco PUMA 25 SP DEX 1/3D



The Depureco PUMA 25 SP DEX 1/3D is the PUMA chassis with TUEV-certified electrical panel and 1/3D certification -- built for heavy industrial duty in Zone 22. Three-phase 18.5 kW side-channel blower, 175 L container, 100 mm tangential inlet and 1350 m³/h airflow at 270 mbar vacuum. Automatic reverse jet cleaning. ATEX II 1/3D Ex htc IIIC T140°C Da/Dc. Remote control included. Suited to three-shift operation, powder metallurgy, steelworks and larger production plants with internal Zone 20 requirement.

APPLICATIONS

- Heavy industry and three-shift operation in Zone 22
- Powder metallurgy and metal grinding chips
- Steelworks and foundries
- Multiple simultaneous collection points via central system
- Larger production plants with internal Zone 20 requirement

Technical specifications

ATEX marking	II 1/3D Ex htc IIIC T140°C Da/Dc
Internal / external zone	20 / 22
Motor type	Sidekanalblaeser 3-fase (18.5 kW), TUEV-certificeret el-panel + remote control
Airflow	1350 m ³ /h
Vacuum	270 mbar (2753 mmH ₂ O)
Container	175 L
Sound pressure	74 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 120.000 cm ² , reverse jet cleaning (automatisk)
Primary filter	Stjernefilter antistatisk polyester klasse M, 120.000 cm ²
Cleaning system	Automatisk reverse jet cleaning
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP65
Power	18.5 kW
Voltage	400 V / 50-60 Hz
Inlet	Diameter 100 mm
Dimensions (L x W x H)	850 x 1550 x 1980 mm
Weight	370 kg

Questions and answers

How is the PUMA range positioned compared to FOX?

PUMA is heavy-industrial class: 100 mm inlet (vs FOX 80 mm), 175 L container (vs FOX 100 L), larger chassis (850 x 1550 mm), TUEV-certified electrical panel and remote control. No internal cyclone -- PUMA is intended for clean fine-dust collection without large fractions. FOX has a cyclone and is better for mixed dust sizes.

What is the difference between PUMA DEX and PUMA SP DEX?

The DEX variant (PUMA 25 DEX 1/3D) has a star filter 45,000 cm² with manual cleaning. The SP variant (PUMA 25 SP DEX 1/3D) has a larger star filter 120,000 cm² with automatic reverse jet cleaning. SP is for continuous operation without operator intervention and longer interval between container emptying; DEX is cheaper and suited to periodic operation with regular filter-cleaning cycles.

How much airflow does the PUMA 25 SP DEX 1/3D deliver (18.5 kW)?

1350 m³/h at 270 mbar vacuum. Can drive 1-3 simultaneous 100 mm collection points depending on hose length and dust load. The largest variant (PUMA 25 DEX) delivers 1350 m³/h and can drive 4-6 collection points.

What is the TUEV-certified electrical panel and why is it important?

A TUEV-certified electrical panel is a control-panel design that has passed safety review at TUEV (technical inspection). In ATEX environments it ensures electrical components have the correct IP class, proper termination and proper overcurrent protection. Important in insurance and regulatory contexts -- many steelworks and pharma plants require a TUEV panel as a condition for installation.

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/puma-25-sp-dex-1-3d/

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