

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

Depureco PUMA 30 S DEX 1/3D



The Depureco PUMA 30 S DEX 1/3D is the PUMA HD heavy-duty chassis with 130 mm inlet and 1/3D certification for the heaviest industrial dust collection in Zone 22. Three-phase 18.5 kW side-channel blower, 175 L container and 1180 m³/h airflow at 380 mbar vacuum. Cartridge filter 180,000 cm² with integrated automatic reverse jet cleaning. TUEV-certified electrical panel and remote control included. ATEX II 1/3D Ex htc IIIC T140°C Da/Dc. Built for steelworks, foundries, powder metallurgy and other extreme industrial applications in Zone 22.

APPLICATIONS

- Steelworks and foundries in Zone 22
- Powder metallurgy and heavy metal processing
- High airflow or high vacuum for long hose runs
- Central system operation with multiple simultaneous 130 mm collection points
- Extremely dust-loaded environments with three-shift operation

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	1180 m ³ /h
Vacuum	380 mbar (3875 mmH ₂ O)
Container	175 L
Sound pressure	78 dB(A)
Filter class	M class
Filter type	Cartridge antistatisk polyester klasse M, 180.000 cm ² , integreret reverse jet cleaning (automatisk)
Primary filter	Cartridge antistatisk polyester klasse M, 180.000 cm ²
Cleaning system	Automatisk reverse jet cleaning (SP)
Collection system	Detachable container
Material	Lakeret staalkonstruktion heavy-duty, AISI 304 stoevbeholder
IP class	IP65
Power	18.5 kW
Voltage	400 V / 50-60 Hz
Inlet	Diameter 130 mm
Dimensions (L x W x H)	1050 x 1950 x 2300 mm
Weight	620 kg

Questions and answers

Why is the PUMA 30 available in both P and S variants?

P stands for flow-prioritised, S for suction-prioritised. The PUMA 30 S DEX 1/3D delivers highest vacuum (380 mbar) but moderate airflow (1180 m³/h). The other variant (PUMA 30 P DEX 1/3D) swaps these parameters -- same motor size, but different compressor setup. Flow-prioritised is for large airflows (e.g. extraction hoods and large enclosures); suction-prioritised is for long hose runs and fine sticky dust requiring high vacuum.

What is the difference between PUMA HD and PUMA DEX?

PUMA HD is the heavy-duty variant: 130 mm inlet (vs PUMA DEX 100 mm), cartridge filter 180,000 cm² (vs star filter 45,000 cm²), larger chassis (1050 x 1950 mm), 22 kW motor (vs 7.5-18.5 kW). Built for steelworks and foundries. Automatic reverse jet cleaning included as standard (no separate SP variant).

Can the PUMA 30 S DEX 1/3D be used for steel chips and grinding dust?

Yes. Antistatic polyester M class filter plus grounding handles soft-metal chips and dust. The AISI 304 container is corrosion-resistant. Note: very large steel-chip fractions should go through a pre-separator before PUMA HD -- chips can damage the cartridge filter by direct intake. Contact us for pre-separator manifold design if you have mixed chips/dust.

What is the footprint of the PUMA 30 S DEX 1/3D, and can it be installed indoors?

Dimensions 1050 x 1950 x 2300 mm, weight 620 kg. Requires at least 3 x 3 m of service space around the machine. The IP65 chassis allows placement in humid environments (e.g. near process-water installations). Sound pressure 78 dB(A) -- hearing protection recommended for permanent operator presence.

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-30s-dex-1-3d/

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