

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

# Depureco PUMA 30 P DEX 1/3D



The Depureco PUMA 30 P 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 22 kW side-channel blower, 175 L container and 1985 m<sup>3</sup>/h airflow at 200 mbar vacuum. Cartridge filter 180,000 cm<sup>2</sup> 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

<b>ATEX marking</b>	II 1/3D Ex htc IIIC T140°C Da/Dc
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	Sidekanalblaeser 3-fase (22 kW), TUEV-certificeret el-panel + remote control
<b>Airflow</b>	1985 m <sup>3</sup> /h
<b>Vacuum</b>	200 mbar (2039 mmH <sub>2</sub> O)
<b>Container</b>	175 L
<b>Sound pressure</b>	78 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Cartridge antistatisk polyester klasse M, 180.000 cm <sup>2</sup> , integreret reverse jet cleaning (automatisk)
<b>Primary filter</b>	Cartridge antistatisk polyester klasse M, 180.000 cm <sup>2</sup>
<b>Cleaning system</b>	Automatisk reverse jet cleaning (SP)
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staalkonstruktion heavy-duty, AISI 304 stoevbeholder
<b>IP class</b>	IP65
<b>Power</b>	22 kW
<b>Voltage</b>	400 V / 50-60 Hz
<b>Inlet</b>	Diameter 130 mm
<b>Dimensions (L x W x H)</b>	1050 x 1950 x 2300 mm
<b>Weight</b>	560 kg

# Questions and answers

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

P stands for flow-prioritised, S for suction-prioritised. The PUMA 30 P DEX 1/3D delivers highest vacuum (380 mbar) but moderate airflow (1180 m<sup>3</sup>/h). The other variant (PUMA 30 S 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 cm<sup>2</sup> (vs star filter 45,000 cm<sup>2</sup>), 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 P 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 P DEX 1/3D, and can it be installed indoors?

Dimensions 1050 x 1950 x 2300 mm, weight 560 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

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## PARTICULAIR

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