

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

# Depureco FOX 3 SP DEX 1/3D



The Depureco FOX 3 SP DEX 1/3D is the FOX chassis with internal cyclone and 1/3D certification. Three-phase 2.2 kW side-channel blower, 100 L container, 80 mm tangential inlet and 320 m<sup>3</sup>/h airflow at 200 mbar vacuum with automatic reverse jet cleaning. ATEX II 1/3D Ex htc IIIC T140°C Da/Dc. The cyclone pre-separation catches heavy fractions before the filter -- especially important for organic fibres, paper, granulates and coarse fillers. IP65 chassis. Suited to medium-sized industrial dust collection in Zone 22 with an internal Zone 20 requirement.

## APPLICATIONS

- Medium-sized industrial dust collection in Zone 22
- Organic fibres, paper, cellulose, wood dust
- Granulates and coarse fillers (cyclone pre-separation)
- Polymer fractions and plastics production
- Stationary or semi-mobile installation at production line

# Technical specifications

<b>ATEX marking</b>	II 1/3D Ex htc III C T140°C Da/Dc
<b>Internal / external zone</b>	20 / 22
<b>Motor type</b>	Sidekanalblaeser 3-fase (2.2 kW) med intern cyklon-forseparation
<b>Airflow</b>	320 m <sup>3</sup> /h
<b>Vacuum</b>	200 mbar (2039 mmH <sub>2</sub> O)
<b>Container</b>	100 L
<b>Sound pressure</b>	73 dB(A)
<b>Filter class</b>	M class
<b>Filter type</b>	Cartridge antistatisk polyester klasse M, 90.000 cm <sup>2</sup> , reverse jet cleaning (automatisk)
<b>Primary filter</b>	Cartridge antistatisk polyester klasse M, 90.000 cm <sup>2</sup>
<b>Cleaning system</b>	Automatisk reverse jet cleaning
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staalkonstruktion, AISI 304 stoevbeholder
<b>IP class</b>	IP65
<b>Power</b>	2.2 kW
<b>Voltage</b>	400 V / 50-60 Hz
<b>Inlet</b>	Diameter 80 mm
<b>Dimensions (L x W x H)</b>	660 x 1200 x 1860 mm
<b>Weight</b>	142 kg

# Questions and answers

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## What is the FOX range's main feature compared to ECOBULL and PUMA?

Internal cyclone pre-separation. The cyclone catches heavy fractions (granulate, chips, sand, coarse filler) before the airstream reaches the filter. This extends filter life significantly and lets the filter focus on finer dust. FOX is therefore ideal for dust with mixed grain sizes -- paper, fibres, granulate, wood dust, while PUMA without cyclone is better for pure fine-dust collection.

## What is the difference between FOX DEX and FOX SP DEX?

The DEX variant (FOX 3 DEX 1/3D) has a star filter 24,000 cm<sup>2</sup> with manual cleaning -- longer filter life, lower cost, but requires periodic operator intervention. The SP variant (FOX 3 SP DEX 1/3D) has a cartridge filter 90,000 cm<sup>2</sup> with automatic reverse jet cleaning -- for continuous operation without operator intervention, larger capacity but higher cost and taller machine.

## How much airflow does the FOX 3 SP DEX 1/3D deliver (2.2 kW)?

The FOX 3 SP DEX 1/3D delivers 320 m<sup>3</sup>/h at 200 mbar vacuum. Sufficient for one to two simultaneous 80 mm collection points with 3-5 m hose. Longer hoses or finer dust require higher vacuum -- choose a larger FOX variant or a PUMA in that case.

## How large is the container and how is it emptied?

100 L AISI 304 container, below-machine detachment principle -- rolled out on wheels for emptying. The container catches both cyclone-pre-separated coarse fraction (upper part) and filter-cleaned fine dust (lower part). Grounding ensured via chassis bonding.

# Contact and advisory

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## PARTICULAIR

### Particulair

Højtoften 12

2690 Karlslunde, Denmark

CVR: 34129894

Phone: (+45) 70 23 12 03

E-mail: [sales@particulair.com](mailto:sales@particulair.com)

Web: [particulair.eu](http://particulair.eu)

**Product page:** [particulair.eu/ex-vac/en/atex-dust/fox-3-sp-dex-1-3d/](http://particulair.eu/ex-vac/en/atex-dust/fox-3-sp-dex-1-3d/)

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