

DEPURECO · II 1/2D EX HTC IIIC T140°C DA/DC

# Depureco FOX 5,5 SP DEX 1/2D



The FOX 5.5 SP DEX 1/2D is mid-capacity with self-cleaning: 4 kW motor delivers 450 m<sup>3</sup>/h at 230 mbar, 90,000 cm<sup>2</sup> cartridge filter cleaned automatically by reverse jet every 30-60 seconds. Zone 21 certification (ATEX II 1/2D Da/Dc) with H14 HEPA included. 100 L container, 80 mm inlet, 1860 mm tall chassis for the cartridge pack. Fits two-shift or rotating shift operations where the operator shouldn't have to think about filter maintenance between shifts.

## APPLICATIONS

- Two-shift production in Zone 21 with no filter-cleaning responsibility between shifts
- Bakery, milling or other dust-heavy environment where a filter would clog quickly
- Chemical or pharmaceutical fine dust with HEPA exhaust requirement
- Production lines with changing product types (varying dust profile)
- Installations without a permanent operator nearby

# Technical specifications

<b>ATEX marking</b>	II 1/2D Ex htc IIIc T140°C Da/Dc
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	Sidekanalblaeser 3-fase (4 kW) med intern cyklon-forseparation
<b>Airflow</b>	450 m <sup>3</sup> /h
<b>Vacuum</b>	230 mbar (2345 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) + H14 absolutfilter 28.000 cm <sup>2</sup> (inkluderet)
<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>	4 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>	157 kg

# Questions and answers

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## What is the typical annual maintenance?

Minimal: visual inspection of the cartridge pack every 3-6 months, compressed-air hose and coupling check every six months, HEPA filter replacement after 24-36 months depending on loading. The reverse-jet valves have 5+ years of life at 6 bar. The container is emptied as needed -- 100 L usually holds a week's dust in two-shift operation.

## How many simultaneous pickup points can 450 m<sup>3</sup>/h handle?

Practical: two simultaneously active 80 mm points. Three points is possible with staggered loading (only two active at a time). For reliable coverage of three-four points, choose the PUMA 10 SP DEX 1/2D (750 m<sup>3</sup>/h + 100 mm). An 80 mm T-branch with automatic dampers can also be used for sequential pickup.

## Should the cartridge filter be replaced on the same interval as a star filter?

No -- much longer. The cartridge filter (90,000 cm<sup>2</sup>) has 3-4 times the surface of a star filter (24,000 cm<sup>2</sup>) AND is cleaned automatically, so effective life is typically 3-5 years versus 6-12 months for a star filter. For dust containing adhesive or greasy components, life may be reduced, so consider the PTFE antistatic filter (P11847 family) as an alternative.

## Can the FOX 5.5 SP run without compressed air for a short while?

Yes -- if the compressed air fails, the motor and suction continue. But without reverse-jet cleaning, the filter begins to load, and pressure drop rises within 30-60 minutes depending on dust loading. Best practice: install a low-pressure alarm on the compressed-air inlet so the operator knows. Depureco optionally supplies a low-pressure sensor kit.

# 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-5-5-sp-dex-1-2d/](http://particulair.eu/ex-vac/en/atex-dust/fox-5-5-sp-dex-1-2d/)

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