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

Depureco FOX 7,5 DEX 1/2D

The FOX 7.5 DEX 1/2D is the power upgrade within the FOX chassis: 5.5 kW delivers 550 m3/h at 240 mbar -- enough vacuum to handle 10-15 m hose, more simultaneous points or dust below 50 micron. ATEX II 1/2D Ex htc IIIC T140°C Da/Db with H14 HEPA filter included. The same 100 L container and footprint as FOX 3 and 5.5, so you can upgrade on existing installations without moving walls. The choice when the task has grown but you don't yet want to jump to the PUMA class.

APPLICATIONS

- Cross-line dust collection with longer hose runs (10-15 m)
- Fine dust (below 50 micron) from metallurgy or chemical industry
- Replacement of FOX 3/5.5 when the production line has been scaled up
- Zone 21 areas with evening and night shifts that cannot clean the filter often
- Awkward or space-constrained pickup scenarios that need reserve power

Technical specifications

ATEX marking	II 1/2D Ex htc IIIC T140°C Da/Db
Internal / external zone	20 / 21
Motor type	Sidekanalblaeser 3-fase (5.5 kW) med intern cyklon-forseparation
Airflow	550 m³/h
Vacuum	240 mbar (2447 mmH_2O)
Container	100 L
Sound pressure	74 dB(A)
Filter class	M class
Filter type	Stjernefilter antistatisk polyester klasse M, 24.000 cm2, manuel rens + H14 absolutfilter 28.000 cm2 (inkluderet)
Primary filter	Stjernefilter antistatisk polyester klasse M, 24.000 cm2
Cleaning system	Manuel filterrens
Collection system	Detachable container
Material	Lakeret staalkonstruktion, AISI 304 stoevbeholder
IP class	IP65
Power	5.5 kW
Voltage	400 V / 50-60 Hz
Inlet	Diameter 80 mm
Dimensions (L x W x H)	660 x 1200 x 1510 mm
Weight	177 kg

Questions and answers

Why 5.5 kW when the FOX 10 is only 7.5 kW -- how much difference is there?

On airflow, both deliver 550 m3/h. The difference is vacuum (240 vs 280 mbar) and thermal reserve in the motor. The FOX 10 maintains 280 mbar stably under a fully loaded filter, whereas the FOX 7.5 begins to drop as filter loading rises. Choice: FOX 7.5 for intermittent heavy duty, FOX 10 for continuous heavy loading. The two are mechanically identical -- the difference is motor size and control panel.

How long a hose can I use?

Practical limit: 15 m of 80 mm antistatic hose. Longer than that (>15 m), effective suction at the nozzle drops below 150 mbar and cleanup time on light spills grows. For hose runs over 20 m, look at the PUMA 10 DEX 1/2D (100 mm + 270 mbar) -- a larger inlet reduces pressure drop significantly.

Can I use a reducer down to a 50 mm hose?

Yes, with reducer P00278 (d80/50). Used when the collection point only accepts 50 mm -- typically a hand wand or a fixed installation with a small coupling. Expect 30-40% lower airflow at the nozzle due to increased pressure drop, but local vacuum rises. Useful for precision collection in Zone 21, e.g. powder filling or sieving surfaces.

How much current does the FOX 7.5 draw in operation?

Approximately 11-13 A at 400 V / 50 Hz under full load. Fits a standard CEE three-phase 16 A socket. Inrush is about 3x nominal for 0.5-1 seconds -- rarely a problem in industrial installations. Consult your electrician on cable length and circuit-breaker rating -- motor protection must match the side-channel blower characteristic.

Contact and advisory

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