

DEPURECO · II 1/2D EX H IIIC T140 DA/DB

Depureco BL 45 DEX 1/2D



The Depureco BL 45 DEX 1/2D is the BL chassis's dual-certified model -- 1.1 kW brushless motor with ATEX marking II 1/2D Ex h IIIC T140 Da/Db for zone 21 external + zone 20 internal. 45 L container, HEPA H14 as E11 inlet included, grounding and chassis bonding. Dimensions 540 x 620 x 1300 mm, 45 kg -- one of the market's most mobile ATEX vacuums for medium-sized service work. The brushless motor runs cooler than brushed motors and typically has 3-5x longer life, important in classified environments where machine surface temperature must be kept low.

APPLICATIONS

- Mobile service work in Zone 21 external + Zone 20 internal
- Cleaning production plant, machinery and floors
- Pharma, API handling and laboratories
- Dust collection during repair or shutdown work
- Brushless motor extends operating life in classified environments

Technical specifications

ATEX marking	II 1/2D Ex h IIIC T140 Da/Db
Internal / external zone	20 / 21
Motor type	1x Brushless motor 1,1 kW, 110/230V 50/60Hz
Airflow	190 m ³ /h
Vacuum	225 mbar (2294 mmH ₂ O)
Container	45 L
Sound pressure	72 dB(A)
Filter class	H class
Filter type	HEPA H14 (E11 inlet) + Stjernefilter antistatisk polyester klasse M, 15.000 cm ²
Primary filter	Stjernefilter antistatisk polyester klasse M, 15.000 cm ²
Cleaning system	Manuel filterrens
Collection system	Detachable container
Material	Lakeret staalkonstruktion
Power	1.1 kW
Voltage	110/230 V / 50-60 Hz
Dimensions (L x W x H)	540 x 620 x 1300 mm
Weight	45 kg

Questions and answers

What does dual-cert mean on the BL 45 DEX 1/2D?

The same chassis and same code (A1325) is approved for two different ATEX external zones: Zone 22 (1/3D) and Zone 21 (1/2D). We have chosen to present them as two separate product pages so you can quickly match your need. Specifications are identical on both pages -- the difference is only the certification and the zone you install in.

Is the BL 45 DEX 1/2D certified for Zone 22 external?

Yes -- see our sibling page [\[bl-45-dex-1-3d\]\(/ex-vac/en/atex-dust/z20-22-1-3d/bl-45-dex-1-3d/\)](#). It is the same model, same code, but certified for zone 22 external instead of zone 21 external.

Why a brushless motor instead of a side-channel blower?

Brushless (BLDC) motors have no carbon brushes that wear and release sparks -- important in ATEX environments where motor heat and spark generation must be minimised. They also run cooler (typically 15-20°C lower surface temperature) and have 3-5x the life of brushed motors. The BL range is therefore ideal for mobile service tasks where the motor gets many short start-stop cycles.

How heavy and how big is the BL 45 DEX 1/2D?

45 L container in AISI 304, total weight 38-45 kg depending on variant. Compact chassis that fits through standard doorways. A single operator can handle the machine on wheels and handle. Very mobile compared to ECOBULL (95 kg) or PUMA (270-620 kg).

Contact and advisory

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