

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

# Depureco BL 20 JC DEX 1/2D



The Depureco BL 20 JC 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. 38 L container, HEPA H14 as E11 inlet included, grounding and chassis bonding. Dimensions 540 x 620 x 1050 mm, 38 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

<b>ATEX marking</b>	II 1/2D Ex h IIIC T140 Da/Db
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	1x Brushless motor 1,1 kW, 110/230V 50/60Hz
<b>Airflow</b>	190 m <sup>3</sup> /h
<b>Vacuum</b>	225 mbar (2294 mmH <sub>2</sub> O)
<b>Container</b>	38 L
<b>Sound pressure</b>	72 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (E11 inlet) + Konisk cartridge 16.000 cm <sup>2</sup> + Jet Clean
<b>Primary filter</b>	Konisk cartridge antistatisk polyester klasse M, 16.000 cm <sup>2</sup>
<b>Cleaning system</b>	Jet Clean (pneumatisk puls)
<b>Collection system</b>	Detachable container
<b>Material</b>	Lakeret staalkonstruktion
<b>Power</b>	1.1 kW
<b>Voltage</b>	110/230 V / 50-60 Hz
<b>Dimensions (L x W x H)</b>	540 x 620 x 1050 mm
<b>Weight</b>	38 kg

# Questions and answers

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## What does dual-cert mean on the BL 20 JC DEX 1/2D?

The same chassis and same code (A1285) 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 20 JC DEX 1/2D certified for Zone 22 external?

Yes -- see our sibling page [\[bl-20-jc-dex-1-3d\]/\(ex-vac/en/atex-dust/z20-22-1-3d/bl-20-jc-dex-1-3d/\)](#). 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 20 JC DEX 1/2D?

38 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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## PARTICULAIR

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**Product page:** [particulair.eu/ex-vac/en/atex-dust/bl-20-jc-dex-1-2d/](http://particulair.eu/ex-vac/en/atex-dust/bl-20-jc-dex-1-2d/)

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