

DEPURECO · II 3 D EX HTC IIIB T140 DC

# Depureco CVS 185 Z22



The Depureco CVS 185 Z22 is a central ATEX vacuum unit for Zone 22 (external) -- delivered WITHOUT integrated filter and WITHOUT container. A 18.5-25 kW 3D ATEX-certified side-channel blower (top-mounted in a sound-insulated cabinet) delivers 1350 m<sup>3</sup>/h at 270 mBar vacuum and 74 dB(A). The unit \*\*must be mandatorily combined with a separate filtration and collection unit\*\* (DV AIR, DV AIR WB or HF Z22) -- the CVS alone is just the prime mover of the installation. Remote vacuum control, pressure-relief valve and inlet silencer (O130 connection to O70/100/130 hose via P12780) are included from the factory. An optional HEPA H14 secondary filter (110,000 cm<sup>2</sup> fiberglass) can be added. Footprint 821x1319 mm, height 1792 mm, IP55, insulation class F. Inlet O102 mm. ATEX marking II 3 D Ex htc IIIB T140 Dc.

## APPLICATIONS

- Central vacuum unit for multiple take-off points in ATEX Zone 22
- Combined with separate filter unit for industry-specific filtration
- Long pipe runs in plant and process installations
- Continuous duty with tailored collection (big-bag, Longopac, rotary valve, container)

# Technical specifications

<b>ATEX marking</b>	II 3 D Ex htc IIIB T140 Dc
<b>Internal / external zone</b>	- / 22
<b>Motor type</b>	3D ATEX-certificeret sidekanalblaeser, 18,5-25 kW (topmonteret i lyddaempet kabinet)
<b>Airflow</b>	1350 m <sup>3</sup> /h
<b>Vacuum</b>	270 mbar
<b>Sound pressure</b>	74 dB(A)
<b>Filter class</b>	No primary filter
<b>Filter type</b>	Intet primaerfilter paa enheden -- CVS Z22 skal kombineres med en separat filter- og opsamlingsenhed (fx DV AIR, DV AIR WB eller HF Z22). Valgfri HEPA H14 sekundaer (110.000 cm <sup>2</sup> fiberglas, EN 1822 klasse H14) kan tilfoejes som option mellem pumpe og filter-enhed.
<b>Primary filter</b>	Intet -- kraever separat filter-enhed
<b>Cleaning system</b>	Ikke relevant paa enheden -- renses paa tilknyttet filter-enhed (SP pulsejet-rens paa fx DV AIR eller HF)
<b>Collection system</b>	No collection (separate filtration and collection unit required)
<b>Material</b>	Lakeret staal-kabinet med lyddaempning
<b>IP class</b>	IP55
<b>Power</b>	25.0 kW
<b>Voltage</b>	400 V / 50-60 Hz
<b>Dimensions (L x W x H)</b>	821 x 1319 x 1792 mm

# Questions and answers

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## What does the ATEX marking II 3 D Ex htc IIIB T140 Dc mean?

The unit is EU-type approved under ATEX directive 2014/34/EU for operation in external Zone 22 (dust, low risk). 'Ex h' is the constructional safety type per EN ISO 80079-36/37, and 'tc' specifies the enclosure protection level against dust ignition. 'IIIB' covers non-conductive dust (paper, fibre, grain etc.) -- class IIIC (conductive metallic dust) requires separate approval. 'T140' is the maximum surface temperature in operation (140 degrees C). 'Dc' is the EPL code for Zone 22.

## Why does CVS Z22 have no built-in filter or container?

CVS Z22 is designed as a modular central system. It contains only the vacuum unit -- motor and ATEX side-channel blower in a sound-insulated cabinet -- without filter and without container. That gives freedom to tailor the rest of the installation to the process: the filter is chosen for the dust type (class M, H13 or H14), and the collection is chosen for the duty cycle (continuous discharge via big-bag or Longopac, rotary valve + container, or integrated container as on DV AIR WB). The catalogue states it directly: 'CVS vacuum units must be mandatorily combined with a filtration and collection unit' -- CVS is the prime mover, and the filter/collection unit is the other half of the solution.

## Which filter units can CVS Z22 be combined with?

Three main options: (1) \*\*HF Z22\*\* series -- central-system filter without container, where dust is discharged continuously via big-bag, Longopac, rotary valve or direct pipe to process. Suits when bin emptying isn't practical. (2) \*\*DV AIR\*\* / \*\*DV AIR Z22\*\* -- large-format filter unit (1700 or 2700 m<sup>3</sup>/h, 4 or 7 cartridges) without integrated container, combined with DISCHARGE SYSTEMS (flaps, rotary valve, butterfly) or a pre-separator (FILTER HOPPER). (3) \*\*DV AIR WB\*\* / \*\*DV AIR WB Z22\*\* -- filter unit with 175 L integrated stainless-steel container. We help match the filter unit to your CVS model based on airflow, vacuum and discharge needs.

## What is the sweet spot for Depureco CVS 185 Z22?

Depureco CVS 185 Z22 delivers 1350 m<sup>3</sup>/h at 270 mBar vacuum with O102 mm inlet. Power class is 18.5-25 kW. Choose it when the pipe network pressure drop and the number of take-off points match this profile -- see the model comparison on the category page to put all six CVS variants side by side.

# Contact and advisory

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**Product page:** [particulair.eu/ex-vac/en/atex-dust/cvs-185-z22/](http://particulair.eu/ex-vac/en/atex-dust/cvs-185-z22/)

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