

TIGER-VAC · II 1/2GD EXTERNAL: EX DB H IIB T4 GB -- EX H TB IIIC T135 C DB IP65 -- INTERNAL: EX H IIC T6 GA -- EX H IIIC T50 C DA -- -5 C <= TA <= +37 C -- EN 17348 DT/LC -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3RD PARTY

# Tiger-Vac CD-63L EX (W&D;) Z1-2-21-22 -- single-phase



The Tiger-Vac CD-63L EX (W&D;) Z1-2-21-22 in single-phase configuration (112500B3) is Tiger-Vac's ATEX wet/dry vacuum for internal Zone 20 + gas Zone 1 + dust Zone 21 (II 1/2GD). 3rd party certified per LCIE 03 ATEX 6295 X and IECEx LCI 10.0040X. A 230 V TEFC induction motor (1500 W, 12.3 A) delivers 212 m<sup>3</sup>/h at 2540 mmH<sub>2</sub>O and 72 dB(A). 56.8 L AISI 304 dust tank combined with 64.4 L liquid capacity via wet floater system. Manometer and muffler included, plus liquid filter and dry filter for occasional dry bulk recovery. Suitable for refineries, chemical industry, pharmaceutical production and other combined-zone applications where simultaneous wet and dry handling of combustible powder and liquid is required.

## APPLICATIONS

- Refinery boundary zones with simultaneous gas Zone 1 and dust Zone 21
- Chemical industry with solvent vapour and combustible fine powder
- Pharma production with non-flammable liquids and powder
- Spill clean-up of non-flammable liquids in ATEX-classified areas
- Sites where single-phase 230 V is the required supply

# Technical specifications

<b>ATEX marking</b>	II 1/2GD External: Ex db h IIB T4 Gb -- Ex h tb IIIC T135 C Db IP65 -- Internal: Ex h IIC T6 Ga -- Ex h IIIC T50 C Da -- -5 C <= Ta <= +37 C -- EN 17348 DT/LC -- LCIE 03 ATEX 6295 X -- IECEx LCI 10.0040X -- ATEX 3rd party
<b>Internal / external zone</b>	20 / 21
<b>Motor type</b>	1-faset TEFC induction-motor, eksplosionsbeskyttet (Ex db h IIB T4 Gb / Ex h tb IIIC T135 C Db IP65) -- 3rd party certified
<b>Airflow</b>	212 m <sup>3</sup> /h
<b>Vacuum</b>	249 mbar (2540 mmH <sub>2</sub> O)
<b>Container</b>	56.8 L
<b>Sound pressure</b>	72 dB(A)
<b>Filter class</b>	H class
<b>Filter type</b>	HEPA H14 (EN 1822, 99,995 % MPPS) tilvalg på CD-63L, standard på CD-3 EX -- aerosol leak-testet, OSHA-compliant
<b>Primary filter</b>	Hovedfilter SD* statisk afladende m/pre-filter SD* og liquid filter (separat for væske-opsamling)
<b>Cleaning system</b>	Ingen aktivt filterrens-system -- skiftes ved mætning
<b>Collection system</b>	Detachable container
<b>Material</b>	AISI 304 rustfri stål krop og heavy duty powder coated cart
<b>IP class</b>	IP65
<b>Power</b>	1.5 kW
<b>Current</b>	12.3 A
<b>Voltage</b>	230 V / 50 Hz / 1~
<b>Inlet</b>	Diameter 50 mm
<b>Dimensions (L x W x H)</b>	1090 x 610 x 1040 mm
<b>Weight</b>	107 kg

# Questions and answers

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## What does II 1/2GD mean?

II 1/2GD is the ATEX combined marking indicating: II = surface installation, 1/2 = internal category 1 (highest level, for Zone 0 gas / Zone 20 dust) and external category 2 (for Zone 1 gas / Zone 21 dust), G = gas, D = dust. The CD-63L (W&D;) may therefore collect from the most hazardous point (Zone 20 inside the tank / Zone 0 gas) while the operator stands in a less hazardous area (Zone 21 / Zone 1). This is the preferred marking for wet/dry applications in refineries and chemical industry.

## What is the difference between single-phase and three-phase CD-63L (W&D;)?

Drive specs are identical (212 m<sup>3</sup>/h, 2540 mmH<sub>2</sub>O, 72 dB(A), 56.8 L dust + 64.4 L liquid, 107 kg). The difference is motor configuration: single-phase (112500B3) uses 230 V and 12.3 A with 1500 W power; three-phase (112500B1) uses 400 V and 4.8 A with 2200 W power. The three-phase motor is more efficient (lower current at higher power) and has longer life. Choose single-phase if you have a 230 V outlet; choose three-phase if you have a 400 V installation.

## What liquids may it pick up?

Only non-flammable liquids per EN 17348 LC. This means water, brine, coolants, non-flammable process liquids and spills from non-flammable media may be collected. FLAMMABLE liquids (petrol, solvents above their flash point) are NOT covered by the certificate and may not be collected -- for liquid recovery in Zone 0 gas, see the separate model catalogue.

## Why a wet floater system?

The wet floater is a mechanical cut-off mechanism that closes the suction when the liquid reaches a set level in the tank. This prevents liquid from reaching the motor via the vacuum circuit and damaging it. The floater system is mandatory on wet/dry vacuums per EN 17348 LC and is part of the 3rd party ATEX certificate. At emptying the liquid must be disposed of per local regulation (contact us for advice on disposal of classified liquids).

# Contact and advisory

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