



Ex tb III C T130°C Db

Certificate No.
CNEx22.5885X
Issued by China National
Quality Supervision and Test
Centre for Explosion
Protected Electrical Products



It is electric explosion-proof vacuum cleaners, which are suitable for zone 21 and zone 22 with explosive dust environment. They are used to clean up and recover explosive dust. They are widely used in petrochemical, aerospace, military, chemical pharmaceutical, food, 3D printing and other industries. It is suitable for long time continuous operation in heavy industrial environment.

- 220V Explosion-proof high-pressure fan can work continuously for 24 hours, stable and low noise.
- Explosion-proof electrical box, static conductive filters, static clip, static conductive chain, electrostatic wheels -ensure overall security of the whole machine.
- Two electrostatic conductive filters with filtering area of 21600CM², Filtering precision 0.3 μm.
- Patented filter cleaning technology (patent No.: ZL 2018 20338995.6) –No need to shut down the machine and block the inlet.
- 60L Stainless steel upper and lower barrels -durable, static conductive, smooth and easy to clean.

Description	Unit	KVCE-EX60-1
Current type	Ph -V -Hz	1-220 -50/60
Power	kW	2.2
Airflow	m ³ /h	220
Vacuum	kPa / inH2O	26 / 104
Sound pressure level	dB(A)	68
Container capacity	l / gal	60 / 15.85
Filter area	cm ² / ft ²	21600 / 23.3
Filter efficiency	μm	0.3
Filter type		2 HEPA filters
Filter cleaning system		Patented manual shaking
Inlet diameter	mm	40/50
Cable length	m / ft	8 / 26.2
Dimensions (L ×W ×H)	mm / in	908*566*1128



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Filter Unit

The filter is securely shielded and installed within the collection tank. It features an anti-static material filter bag combined with a HEPA filter cartridge, offering a filtration surface area of 20,000 square centimeters for optimal inhalation performance. The Ø40mm suction inlet, located beneath the filter, enables the vacuum to efficiently collect dust and solid particles without making contact with the filter, thus prolonging its lifespan.



Collection Unit

Collected materials are stored in a 304 stainless steel dust tank with a capacity of 45 liters, allowing for easy and safe disposal. The entire unit is grounded and designed to be anti-static. The vacuum cleaner comes with four casters, two of which are swiveling for enhanced mobility. Additionally, the provided storage tank conveniently accommodates various vacuum accessories. All hoses and accessories are crafted from conductive materials and include grounding clamps to ensure safety and reliability.



Kertz KVCE-EX-45-1 Mini Series Explosion-Proof Vacuum Cleaners are designed to be compact, lightweight, and easy to transport. They are ideal for use in explosion-proof environments across 22 zones in various factories. Utilizing advanced brushless motor technology, these cleaners are capable of long-term continuous operation under any working conditions, ensuring a safe and user-friendly experience.

Key Features:

- ATEX explosion-proof certification for the entire unit
- Constructed from durable 304 stainless steel
- Safety-certified brushless motor
- Extensive antistatic H-level filtration system
- Explosion-proof electronic control switch

Vacuum Unit:

The vacuum suction is generated by a professional-grade, single-phase brushless motor certified for safety in Europe and America. It features an independent control panel, ensuring safe and stable performance while requiring no maintenance, even during 24-hour continuous operation. The electrical system includes an explosion-proof certified control switch (with IP65 protection). Additionally, the machine is equipped with a power indicator light to guarantee the safe operation of the entire unit.

Model	KVCE-EX45-1	
Voltage	50/60Hz	220V
Power	KW	1,2
Vacuum	mm.H2O	2300
Airflow	M3/H	180
Filter surface	M2	2
Filter Type	Pocket	M class anti-static polyester
Filter Efficiency	CAT BIA	H
	Micron	99,97% DOP on 0.3
Capacity	Lt	45
Suction Inlet	Dia	40
Noise	dB	70
Protection	IP	65
Dimension	CM	52*55*82
EX Zone	(Direttiva 94/9/CE)	22
EX-Mark	(Direttiva 94/9/CE)	II 3D Ex tc IIIB T135°C Dc