Tiger-Vac®
...The name to vacuum with

CD-10 EX SERIES
Pharma* - Dry Recovery

CD-EX models certified for : Class I, Group D, Class II, Groups F and G *Class II - Division 1 - Group E (metal dust) motor available

GUARANTEED to be capable of safely recovering combustible/conductive dusts &/or flammable liquids.

Characteristics

HEPA Optional | ULPA Optional | Pharma Applications | Cleanroom Applications | Continuous Duty | Explosion Proof

Detatchable Tank | Stainless Steel AISI 304 | Forklift Ready | Dry Recovery | Resistivity: Less than 10 ohms

- Legally certified explosion proof/dust ignition proof by a recognized testing laboratory
- Less than 10 Ohms of resistivity
- HEPA Filter - Optional with an efficiency of 99.995% on 0.3 micron. Tested: IEST RP-CC001.3. H14 by MPPS method as per EN 1822. Or ULPA Filter - Optional with an efficiency of 99.999% on 0.12 micron. Tested: IEST RP-CC001.3. Filtration efficiency of 99.9995% on 0.18 micron. Tested: IEST RP-CC001.3. U15 by MPPS method as per EN 1822. Or
- *Cleanroom compatible. Can be used in the pharmaceutical industry
- Continuous duty 3-phase explosion proof/dust ignition proof motor
- Fully automatic filtration cleaning systems
- All Stainless Steel SAE 304 construction
- For dry recovery (liquids can be recovered into a separate tank)
- Detachable recovery tank (DT) for easy disposal of recovered materials
- Declaration of conformity
- Group E Motor (Metal Dust) and Switch available
- Other motor performances available
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All stainless steel SAE 304 construction. Equipped with a continuous duty 3-phase explosion proof/dust ignition proof motor. Less than 10 Ohms of resistivity. These units can also be equipped with true HEPA Filters (H14)/ULPA Filters (U15) located upstream and/or downstream of the motor. This unit can be used for general maintenance in hazardous locations and is designed to be either a portable or stationary unit. This unit is cleanroom compatible and can be used in the pharmaceutical industry. This is equipped with an Automatic Purge System (APS). This filtration system enables the operator to clean the internal filters/cartridges without having to open up the vacuum cleaner. These filtration systems reduce maintenance downtime. All of our HEPA vacuum cleaners are Aerosol Leak Tested before leaving our facility.

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Specifications

	Unit	CD-10 EX (APS)	CD-10 EX (APS)
Part#		111022A1	111022A5
Filter Cleaning		APS	APS
Dry Recovery	L	98.4	98.4
Vacuum Pressure	mm H_2O	4572	4572
Air Flow	m^3/h	960	960
Phase		Three	Three
Horse Power	HP	10	10
Amperage	A	12	9.3
Wattage	W	7400	7400
Hertz	Hz	60	60
Voltage	V	460	575
Plug		Not Inc.	Not Inc.

High Efficiency Particulate Air Filter

A HEPA filter is a type of air filter, which means it filters the air coming in or out of the vacuum cleaner system. It can remove at least 99.99% of dust, pollen, mould, bacteria and any other airborn particles with a size of 0.3 micron or larger.

North-America: Each HEPA Filter has a minimum filtration efficiency of 99.99% on 0.3 micron. Tested as per IEST-RP-CC001.3.

Europe: Each HEPA Filter has a minimum filtration efficiency of 99.995% on 0.3 micron, rated H14 as per EN 1822 by MPPS method.

Click here to download Tiger-Vac's HEPA Filter's standards chart.

Ultra Low Penetration Air Filter

A ULPA filter is a type of air filter. It can remove at least 99.999% of dust, pollen, mould, bacteria and any other airborn particles with a size of 0.12 microns or larger.

North-America: Each ULPA Filter has a minimum filtration efficiency of 99.999% on 0.12 micron. Tested as per IEST-RP-CC001.3.

Europe: Each ULPA Filter has a minimum filtration efficiency of 99.9995% on 0.18 micron, rated U15 as per EN 1822 by MPPS method.

Automatic Purge system

Explosion proof Automatic Purge system (Pneumatic Timers)

A full immersion system for hazardous areas, consisting of a round header tank with fully integrated diaphragm valves, is built inside of the filter chamber. The system operates with filtered, oil-free compressed air. The diaphragm valves are opened in sequence by a solenoid valve controlled by pneumatic (air) operated timers located outside of the filter chamber.

A short pulse of compressed air is injected into the top of theStatic dissipating and conductive PTFE laminated filter catridges creating a stronger airflow downward moving pressure wave. This wave breaks up the accumulated dust that is caked onto the cartridges.

The pneumatically (air) operated controls, located outside of the filter chamber, allow only one cartridge to be cleaned at any give time, thus ensuring that the vacuum cleaner operates continuously.

Industrial Automatic Purge System (Electric Timers)

A short pulse of compressed air is injected into the top of the filter cartridges creating a stronger wave of airflow pressure which moves downward into the filters and breaks up the accumulated dust that is caked onto the cartridges.

The electrically operated controls, located outside of the filter chamber, allow only one cartridge to be cleaned at any give time, thus ensuring that the vacuum cleaner operates continuously.

Explosion Proof Requirement

In order for Tiger-Vac to legally certify an Explosion Proof/Dust Ignition Proof vacuum cleaner system the unit must be static dissipative (SD*) and conductive and have a resistivity measuring less than 10 Ohms to any point on the vacuum cleaner system. This makes the unit eligible to be Explosion Proof/Dust Ignition Proof and be part of Tiger-Vac's quality control management system ISO 9001:2008.
When using a pneumatic Explosion Proof Vacuum Cleaner System the customer must make sure that the source of air supply (compressor) is grounded.

Ex-Mat Recovery

Tiger-Vac, as the manufacturer, GUARANTEES, that these units can be used to safely recover combustible /conductive dusts and/or flammable liquids.

The ATEX marking certifies only, by it's Ingress of Protection (IP), the capacity of the vacuum cleaner to be in the presence of combustible /conductive dusts and/or flammable liquids but does not certify the capacity of the vacuum cleaner to recover them.

Detachable Recovery Tank

Many of our vacuum cleaners come equipped with a detachable tank for the easy disposal of recovered materials. Our detachable tanks range in size from 20 to 160 liters (5.28 gal to 42.25 gal) and are available in stainless steel or powder coated, with or without wheels for maneuverability.

HEPA FILTER AND ACCESSORIES - Optional		
Part#	Qty	Description
213818	1	EXHAUST HEPA FILTER AND DOWNSTREAM HOUSING ASSEMBLY FOR MODEL CD-10 WITH 4"(10.2cm) CONNECTION
213819	1	HEPA FILTER AND UPSTREAM HOUSING ASSEMBLY FOR MODEL CD-10 WITH 4"(100mm) CONNECTION (BEFORE MOTOR)
213183	1	HEPA FILTER (H14), Ø13.8125"(35.1cm) x 11"(28cm) HIGH, 700 CFM

REVERSE PURGE FILTER CARTRIDGE - Included		
Part#	Qty	Description
214478A	1	FILTER CARTRIDGE, 3 HOOK, CONDUCTIVE ALUMINIZED SPUN BOND POLYESTER, 35"(89cm)HIGHx6"(15.24cm)OD

SKIRT FOR REVERSE PURGE FILTER CARTRIDGE - Optional		
Part#	Qty	Description
214475	1	SD* SKIRT FOR FILTER CARDRIDGE 35"(88.9cm)HIGHx6"(15.2cm)OD

AIR SUPPLY HOSE ASSEMBLIES AND ACCESSORIES FOR MODEL CD-10 EX (APS) - Included		
Part#	Qty	Description
214712	1	AIR SUPPLY HOSE ASMBLY SD* Ø0.375"(9.5mm)x50'(15m)W/0.25"(6.4mm)MALE QUICK DISC&FEMALE QUICK DISC
303126	1	QUICK DISCONNECT, FEMALE Ø.25"(6.4mm) SOCKET x Ø.25"(6.4mm) FEMALE THREAD -BRASS
303123	1	HEX NIPPLE 0.25"(6.4mm)NPT -BRASS

RUPTURE DISK - Optional		
Part#	Qty	Description
214679	1	2"(50mm)RUPTURE DISK ASSEMBLY INCLUDES DISK HOLDER & SS FLANGEES (MUST BE FACTORY INSTALLED)
214680	1	RUPTURE DISK 2"(50mm) MODEL PBV-70, ALUMINUM/STAINLESS STEEL 316
214681	1	SAFETY HEADS (RUPTURE DISK HOLDER), FOR 2"(50mm) RUPTURE DISK, CS/CS

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WARNINGS:

For the recovery of metallic dusts, it is recommended that this unit be used in conjunction with an immersion separator

Only tools and accessories provided by Tiger-Vac shall be used with this vacuum cleaner. Any other tools used will render the warranty null and void and may cause an explosion which could result in bodily harm. Tiger-Vac will not assume any responsibility for damage that may occur due to the improper use or handling of the vacuum cleaner system.

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