



C US

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



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

Characteristics



Continuous Duty



Cleanroom
Applications



Pharma
Applications



Dry Recovery



Explosion Proof



Resistivity: Less
than 10 ohms



HEPA Optional



Stainless Steel
AISI 304



Detachable
Tank



ULPA Optional



- 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
- Manual or automatic filtration cleaning systems
- Total surface area of SD* Reverse Purge Cartridge and Skirt is: 27.4 ft² (25 500 cm²) for ARP and MRP models
- 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

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 unit can be equipped with one of 3 filtration systems - Manual Filters Shaker (MFS), Manual Reverse Purge (MRP), Automatic Reverse Purge System (ARP). These filtration systems enable 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.

Specifications

Unit		CD-7 EX (ARP - EXTENDED)	CD-7 EX (ARP - EXTENDED)	CD-7 EX (MFS - EXTENDED)	CD-7 EX (MFS - EXTENDED)	CD-7 EX (MRP - EXTENDED)	CD-7 EX (MRP - EXTENDED)
Part#		111293A1	111293A5	111288A1	111288A5	111015A1	111015A5
Filter Cleaning		ARP	ARP	MFS	MFS	MRP	MRP
Dry Recovery	L	56.8	56.8	56.8	56.8	56.8	56.8
Vacuum Pressure	mm H ₂ O	4318	4318	4318	4318	4318	4318
Air Flow	m ³ /h	484	484	484	484	484	484
Phase		Three	Three	Three	Three	Three	Three
Horse Power	HP	7.5	7.5	7.5	7.5	7.5	7.5
Amperage	A	9	N/A	9	N/A	9	N/A
Wattage	W	5550	5550	5550	5550	5550	5550
Hertz	Hz	60	60	60	60	60	60
Voltage	V	460	575	460	575	460	575
Plug		Not Inc.	Not Inc.	Not Inc.	Not Inc.	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 airborne 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 airborne 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 Reverse Purge



The Automatic Reverse Purge System requires a small 2 HP compressor on a 1/4" air line hose @ 5 bar (80 psi), 3.78 l/s (8 cfm) to feed the system. This system is ideal when the vacuum cleaner will be attached to a processing system and the operator does not have the time to continually perform a manual purge. A flap has been installed inside of the suction port and will close automatically when the vacuum cleaner is turned off, thus eliminating the risk that any powders or debris will escape from the unit when operating the ARP without any suction power.

Manual Filter Shaker System

(illustration shows a top-mounted shaker)



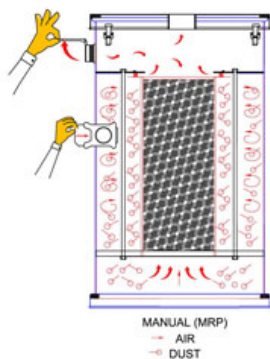
The Manual Filter Shaker system allows the operator to clean the main filter without having to open the vacuum cleaner. This shaker System reduces maintenance down time.

The Manual Filter Shaker System consists of a spring action mechanism operating directly onto the filter cage located inside of the filter chamber. The system is operated by pressing on the ergonomic handle located on the side or top of the filter chamber.

The Manual Filter Shaker dislodges the accumulated caked-on dust from the filter thus improving the filter's performance.

The filter, along with the filter cage, can be easily removed from the filter chamber and washed with lukewarm water and mild detergents.

Manual Reverse Purge System



The Manual Reverse Purge (MRP) System allows the operator to not have to open the vacuum cleaner in order to clean the Cartridge. By opening the Reverse Purge Atmospheric Pressure Release Valve the Cartridge is automatically purged of dusts. This Purging System reduces maintenance down time.

The Manual Reverse Purge (MRP) works by :

1 - Closing the slider on the opening to block the suction intake orifice for approximately 5 seconds while the vacuum is running.

2 - Then quickly open Purge Valve. Air is now flowing via the valve through to the filter.

Keep Purge Valve open for 1-2 seconds then close (repeat above steps 2 or 3 times).

Reverse Purge System will cause dust to fall off of the filter.

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
213816	1	EXHAUST HEPA FILTER AND DOWNSTREAM HOUSING ASSEMBLY FOR CD-4 CD-5 & CD-7 w/ 2.5" (64mm) CONNECTION
213817	1	HEPA FILTER AND UPSTREAM HOUSING ASSEMBLY FOR CD-4 CD-5 & CD-7 w/2.5" (64mm) CONNECTION
213183	1	HEPA FILTER (H14) Ø13.8125"(35.1cm) x 11"(28cm) HIGH 700 CFM

AIR SUPPLY HOSE ASSEMBLIES AND ACCESSORIES - 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

Ø1.5" (38mm) STATIC CONDUCTIVE SUCTION HOSE ASSEMBLIES (RESISTIVITY OF 10/3 - 10/5) - Optional

Part#	Qty	Description
383441	1	STATIC CONDUCTIVE CRUSHPROOF SUCTION HOSE ASSEMBLY(NO WIRE)Ø1.5"(38mm)x15' FOR 1.5" CAMLOCK INTAKE
383441G		

Ø1.5" (38mm) KANAFLEX SUCTION HOSE ASSEMBLIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL AND PRYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS) - Optional

Part#	Qty	Description
381401A		KANAFLEX SUCTION HOSE ASSEMBLY SD*Ø1.5"(38mm)x15'(4.5cm)W/1.5"FEMALE CAMLOCK ALUMINUM HOSE CUFF&RING

Ø2" (50mm) STATIC CONDUCTIVE SUCTION HOSE ASSEMBLIES (RESISTIVITY OF 10/3 - 10/5) - Optional

Part#	Qty	Description
500540	1	CRUSHPROOF SUCTION HOSE ASSEMBLY Ø2"(50mm)x15'(4.5m)STATIC CONDUCTIVE WITH Ø2"FEMALE CAMLOCK -ALUMIN
500540G	1	

Ø2" (50mm) KANAFLEX SUCTION HOSE ASSEMBLIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL AND PRYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS) - Optional

Part#	Qty	Description
500306B	1	KANAFLEX SUCTION HOSE ASSEMBLY SD* Ø2"(50mm)x15'(4.5m)WITH Ø2" FEMALE CAMLOCK HOSE CUFF&RING

Ø3" (70mm) POLYURETHANE SUCTION HOSES AND ACCESSORIES - Optional

Part#	Qty	Description
700001	1	POLYURETHANE SUCTION HOSE ONLY Ø2.75"(70mm) STATIC CONDUCTIVE WITH WIRE (SOLD PER FOOT)
700003	1	HOSE CUFF Ø2.75"(70mm)STATIC CONDUCTIVE -BLACK
700004	1	HOSE CUFF EXPANDER Ø2.75"(70mm) TO Ø3"(76mm)STATIC CONDUCTIVE -BLACK
760020	1	CAMLOCK PART C Ø3"(76mm) -ALUMINUM

Ø1.5" (38mm) TOOLS AND ACCESSORIES TO BE USED WITH STATIC CONDUCTIVE SUCTION HOSES - Optional

Part#	Qty	Description
381364	1	WAND ASSEMBLY (2PC) STAINLESS STEEL WITH ALUMINUM ATTACHMENT
381236	1	UNIVERSAL TOOL SD* W/CONDUCTIVE BRUSH STRIPS RUBBER BLADES BRASS AXLE&WHEELS Ø1.5"(38mm)x18"(45.7cm)
381188	1	CREVICE TOOL SD* 11"(27.9cm) -ALUMINUM
381185A	1	DUSTING BRUSH SD* WITH STAINLESS STEEL COUPLING & CONDUCTIVE BRISTLES 5"(12.5cm) -ALUMINUM
383462	1	CONICAL NOZZLE ASSEMBLY W/CURVED TIP 10"(25cm) CONDUCTIVE RUBBER FOR NON WIRE HOSE (323562+381155)

Ø1.5" (38mm) TOOLS AND ACCESSORIES TO BE USED WITH KANAFLEX SUCTION HOSES - Optional

Part#	Qty	Description
381364A	1	WAND ASSEMBLY (2PCS) -STAINLESS STEEL WITH ALUMINUM ATTACHMENT & TAPER FOR USE WITH HOSE CUFF&RING
381236	1	UNIVERSAL TOOL SD* W/CONDUCTIVE BRUSH STRIPS RUBBER BLADES BRASS AXLE&WHEELS Ø1.5"(38mm)x18"(45.7cm)
381372D	1	CREVICE TOOL Ø1.5"(38mm)x11"(27.9cm) -STAINLESS STEEL (FOR USE WITH HOSE CUFF & RING)
381185DA	1	DUSTING BRUSH -ALUMINUM SD* 5"(12.5cm) WITH CONDUCTIVE BRISTLES FOR USE WITH HOSE CUFF & RING
383462D	1	CONICAL NOZZLE ASSEMBLY w/CURVED TIP 10"(25cm)CONDUCTIVE RUBBER FOR HOSE CUFF&RING(383462M+381147D)

Ø2" (50mm) TOOLS AND ACCESSORIES TO BE USED WITH STATIC CONDUCTIVE SUCTION HOSES - Optional

Part#	Qty	Description
500160	1	WAND ONLY SINGLE BEND Ø2"(50mm)x48"(1.2m) WITH TAPER FOR UNIVERSAL TOOL -ALUMINUM
500161A	1	UNIVERSAL TOOL Ø2"(50mm)x20"(51cm)SD* NO COUPLING WITH BRASS WHEELS&CONDUCTIVE BRISTLES&RUBBER BLADE
500156B	1	CREVICE TOOL SD* (NO COUPLING) Ø2"(50mm)x15"(38cm) -ALUMINUM
501184A	1	DUSTING BRUSH ALUMINUM SD* Ø2"(50mm)x5"(12.7cm)WITH CONDUCTIVE BRISTLES & TUBE FOR PRESSURE FIT
500230	1	CONICAL NOZZLE RUBBER SD* ASSEMBLY Ø2"(50mm)x7.5"(19cm) WITH Ø2"(50mm)PRESSURE FIT ALUM. CONNECTOR

Ø2" (50mm) TOOLS AND ACCESSORIES TO BE USED WITH KANAFLEX SUCTION HOSES - Optional

Part#	Qty	Description
500160SS	1	WAND ONLY SINGLE BEND Ø2"(50mm)x48"(1.2m) -STAINLESS STEEL AISI 304 FOR HOSE CUFF & RING
500161A	1	UNIVERSAL TOOL Ø2"(50mm)x20"(51cm)SD* NO COUPLING WITH BRASS WHEELS&CONDUCTIVE BRISTLES&RUBBER BLADE
500558	1	CREVICE TOOL Ø2"(50mm)x15"(38cm) -STAINLESS STEEL AISI 304
501184DA	1	DUSTING BRUSH ALUMINUM SD* Ø2"(50mm)x5"(12.7cm) WITH CONDUCTIVE BRISTLES FOR USE WITH HOSE CUFF&RING
500230D	1	CONICAL NOZZLE ASSEMBLY -CONDUCTIVE RUBBER Ø2"(50mm)x7.5"(19cm)FOR USE WITH HOSE CUFF & RING

Ø3" (70mm) TOOLS AND ACCESSORIES TO BE USED WITH POLYURETHANE SUCTION HOSES - Optional		
Part#	Qty	Description
700050	1	WAND ASSEMBLY Ø2.75"(70mm) WITH TOOL COUPLING -ALUMINUM
700054	1	UNIVERSAL FLOOR TOOL Ø2.75"(70mm)x20"(51cm)INCLUDES RUBBER BLADES & BRUSH STRIPS
700056	1	UNIVERSAL FLOOR TOOL SD* Ø2.75"(70mm)x20"(51cm) INCLUDES RUBBER BLADES & CONDUCTIVE BRUSH STRIPS
700060	1	CREVICE TOOL Ø2.75"(70mm)x20"(51cm)
700064	1	METAL CONNECTOR (STRAIGHT) Ø2.75"(70mm) -ZINC PLATED
700068	1	CONICAL NOZZLE (STRAIGHT) Ø2.75"(70mm) -CONDUCTIVE RUBBER

CONNECTORS WITH MULTIPLE SUCTION INTAKES - Optional		
Part#	Qty	Description
760094	1	CONNECTOR 2 WAY Ø3"(76mm)CAMLOCKxØ1.5"(38mm)xØ1.5"(38mm)MALE CAMLOCK -ALUMINUM
760300	1	CONNECTOR 2-WAY Ø3"(76mm)CAMLOCKxØ2"(50mm)xØ2"(50mm)MALE CAMLOCK -ALUMINUM
760302	1	CONNECTOR 3-WAY Ø3"(76mm)CAMLOCKxØ1.5"(38mm)xØ1.5"(38mm)xØ1.5"(38mm)MALE CAMLOCK -ALUMINUM
760304	1	CONNECTOR 2 WAY Ø3"(76mm)CAMLOCKxØ1.5"(38mm)xØ1.5"(38mm)TUBE -ALUMINUM
760306	1	CONNECTOR 2 WAY Ø3"(76mm)CAMLOCKxØ2"(50mm)xØ2"(50mm)TUBE -ALUMINUM
760308	1	CONNECTOR 3-WAY Ø3"(76mm)CAMLOCKxØ1.5"(38mm)xØ1.5"(38mm)xØ1.5"(38mm)TUBE -ALUMINUM

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

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.