



EXP1 models certified for :
Class I, Division 1, Group D T3C and
Class II, Division 1, Groups E, F and G



GUARANTEED for the safe
recovery of combustible/conductive
dusts

Characteristics



Explosion Proof



Resistivity:
Less than 10
ohms



HEPA Included



ULPA Optional



Dry Recovery



Stainless Steel
AISI 304



Static
Dissipating
Toolkit



High Efficiency



Detachable
Tank



Cleanroom
Applications



Pharma
Applications



Legally certified explosion proof/dust ignition proof by a recognized testing laboratory Less than 10 Ohms of resistivity HEPA Filter - Included with an efficiency of 99.995% on 0.3 micron. Tested: IEST RP-CC001.3. H14 by MPPS method as per EN 1822. *Cleanroom compatible. Can be used in the pharmaceutical industry with optional stainless steel cart Designed for applications where finely pulverized dust is to be recovered Single phase explosion proof/dust ignition proof motor Available with Manual Filter Shaker (MFS) system For dry recovery only All stainless steel SAE 304 construction (except cart). Stainless steel cart available Detachable recovery tank (DT). Recovery capacity of 6.25 gallons (25 liters) SD* polyliner and clip available for easy and safe disposal of recovered materials Equipped with an SD* 4-wheel cart and tool basket Complete static dissipating tool kit and suction hose included 35L detachable recovery tank is available SD* Static Dissipative

All stainless steel SAE 304 construction (except cart). Less than 10 Ohms of resistivity. This unit is equipped with a true HEPA (H14) Filter located downstream of the motor. This unit is cleanroom compatible and can be used in the pharmaceutical industry when equipped with an optional stainless steel cart. This unit has been designed for applications where finely pulverized dust is to be recovered. This dry only unit contains a Manual Filter Shaker (MFS) system. All of our HEPA vacuum cleaners are Aerosol Leak Tested before leaving our facility.

Specifications

	Unit	EXP1-20L (DT) RE HEPA (MFS)
Part#		110364A
Weight	lbs	100
Filter Cleaning		MFS
Decibels	dB	75
Dimensions	Inches	H43 × W26 × L26
Dry Recovery	Gal	5
Vacuum Pressure	Inches H ₂ O	69
Air Flow at Suction Intake	CFM	132
Phase		Single
Horse Power	HP	1.3
Amperage	A	9
Wattage	W	1000
Hertz	Hz	60
Voltage	V	120
Plug		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 and OSHA compliant.

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.](#)

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.

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 - Included

Part#	Qty	Description
211027B	1	HEPA FILTER 99.995% EFFICIENCY ON 0.3 MICRON (CE VERSION)

FILTERS AND ACCESSORIES - Included

Part#	Qty	Description
215177A	1	MAIN FILTER ASSEMBLY SD* PTFE, w/GASKET & RING, w/LACES, FOR SS/EXP-20 DT (CAGE SOLD SEPARATELY)
214880B	1	WIRE CAGE FOR FILTER -POWDER COATED

PRE-FILTERS - Optional

Part#	Qty	Description
215179	1	PREFILTER ONLY WITH ELASTIC, SD*

POLY LINER RECOVERY BAGS AND ACCESSORIES - Optional

Part#	Qty	Description
212100DS	1	CONDUCTIVE POLY LINER WITH DRAW STRING (20/25 LITRES)
212100DS-5	1	CONDUCTIVE POLY LINER WITH DRAW STRING (20/25 LITRES)(PACKAGE OF 5)
213780	1	POLY LINER RETAINER PLATE WITH CLIP

EXPLOSION PROOF TOOLS AND ACCESSORIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL AND PYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS OF RESISTIVITY) - Included

Part#	Qty	Description
381400B	1	KANAFLEX SUCTION HOSE ASSEMBLY SD* Ø1.5"(38mm)x10'(3m)W/HOSE CUFF&RING, FOR USE WITH 2"(50mm)CAMLOCK

EXPLOSION PROOF TOOLS AND ACCESSORIES - MANDATORY FOR USE WHEN RECOVERING CONDUCTIVE, METAL AND PYROTECHNIC DUST. STATIC DISSIPATIVE (LESS THAN 10 OHMS OF RESISTIVITY) - Included

Part#	Qty	Description
381364A	1	WAND ASSEMBLY (2PCS), STAINLESS STEEL w/ALUMINUM ATTACHMENT, w/TAPER FOR USE w/HOSE CUFF w/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)
211065B	1	MULTIMETER

STATIC CONDUCTIVE TOOLS AND ACCESSORIES (RESISTIVITY OF 10/3 - 10/5) - Optional

Part#	Qty	Description
383440B	1	STATIC CONDUCTIVE CRUSHPROOF SUCTION HOSE ASSEMBLY(NO WIRE)Ø1.5"(38mm)x10'(3m) FOR 2" CAMLOCK INTAKE
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)

GROUNDING REEL - Optional

Part#	Qty	Description
211191	1	GROUNDING REEL WITH STAINLESS STEEL CABLE WITH AIRCRAFT GROUNDING CLAMP 50'(15m)

MALE PLUG AND FEMALE RECEPTACLE - CLASS I - GROUP D AND CLASS II GROUPS F & G - Optional

Part#	Qty	Description
211912	1	MALE PLUG EXPLOSION PROOF MODEL ENP5151 OR MODEL UGP-15231QW, 120V 15AMPS, NEMA CONFIGURATION 5-15P
211913	1	RECEPTACLE EXPLOSION PROOF MODEL CRH ENR5201, 120V, 1PHASE, 15 & 20 AMPS

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.