



**GUARANTEED** for the safe recovery of combustible/conductive dusts &/or flammable liquids.

Designed for use in Class I, Division 1, Groups A, B, C and D T6 and Class II, Division 1, Groups E, F, G, Hazardous Locations as defined in the National Electric Code (NFPA 70)

CE II 2 G/D c IIC T6 (85°C)

**LCIE 03 ATEX 6310** See Certificate

### Characteristics



Explosion Proof



Resistivity: Less than 10 ohms



Detachable Tank



Shooting Range Approved



HEPA Included



High Efficiency



Dry Recovery



Stainless Steel AISI 304



Static Dissipating Toolkit



- 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.
- Designed for the recovery of flammable and toxic powders such as unspent gunpowder and lead contaminants
- Ideal for shooting ranges, army ammunition depots, manufacturers of firearms and pyrotechnic industries
- Pneumatically (air) operated
- 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)
- Equipped with an SD\* polyliner and clip 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

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. This unit has been designed for the recovery of flammable and toxic powders such as unspent gunpowder and lead contaminants. This unit is ideal for shooting ranges, army ammunition depots, manufacturers of firearms and pyrotechnic industries. This unit includes poly liners for the safe and easy disposal of recovered materials. 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                | SS-20L (DT) RE HEPA (FR-P) |
|---|---------------------|----------------------------|
| Part#   |                     | 110406                     |
| Weight  | kg                  | 27                         |
| Filter Cleaning                                   |                     | NONE                       |
| Decibels  | dB                  | 70                         |
| Dimensions  | cm                  | H108 × W58 × L61           |
| Dry Recovery                                      | L                   | 19.7                       |
| Vacuum Pressure                                   | mm H <sub>2</sub> O | 4572                       |
| Air Flow at Suction Intake                        | m <sup>3</sup> /h   | 187                        |
| Venturi   |                     | Single                     |
| Minimum Compressor HP - 1 HP = 4 CFM <sup>1</sup> | HP                  | 15                         |
| Air Line Size                                     |                     | 1/2"                       |
| Input Air Volume                                  | m <sup>3</sup> /h   | 76.5                       |
| Input Air Pressure                                | PSI / Bar           | 80 / 5.5                   |
| Airjet (Venturi)                                  |                     | 6mm                        |

## Notes:

<sup>1</sup> Specifications may vary depending upon the performance of the compressor.

## 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 (H14) |

### 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* |

### EXHAUST FILTRATION - Optional

| Part#  | Qty | Description   |
|--------|-----|---|
| 213034 | 1   | ADAPTOR PLATE, WITH Ø2"(50mm) CAMLOCK VENTING EXHAUST FOR USE WITH RE SYSTEM -STAINLESS STEEL |

### POLY LINER RECOVERY BAGS AND ACCESSORIES - Included

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

| TOOLS AND ACCESSORIES - 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 |
| 211030                           | 1   | AIR SUPPLY HOSE ASSEMBLY SD* Ø0.5"(12.7mm)x50'(15m) WITH 1 MALE QUICK DISC. & 1 FEMALE QUICK DISC.   |
| 211033B                          | 1   | FEMALE QUICK DISCONNECT Ø0.5"(12.7mm) WITH Ø0.5"(12.7mm) FEMALE THREAD (BRASS)                       |
| 211095C                          | 1   | HEX NIPPLE -BRASS (0.5"NPT)  |
| 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   |

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

## 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.