

## **AV1-1 EX CR Ex Air Cleanroom Vacuums**





Industrial Vacuums for Hazardous Materials

Explosion Proof/Dust Ignition Proof Compressed Air-Operated Pneumatic Cleanroom Vacuums

II 2 GD c IIC T6 (85°C)

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 (NEC) and NFPA 70

Certified EPL Db and EPL Gb (Equipment Protection Level)

PrestiVac cleanroom vacuums are specifically designed to be used in ISO 4 (Class 10) cleanroom/controlled environments for decontamination control. The stainless steel construction is easy to clean and sterilize. The exhaust air is filtered through a **ULPA** filtration system with an efficiency of 99.9995% @ 0.12 micron, eliminating

the risk of any contamination. Our compressed air operated cleanroom vacuums do not have any electrical components that can cause any electromagnetic (EMI) or radio frequency interference (RFI) that can affect any electronic equipment in the cleanroom.

PrestiVac explosion proof/dust ignition proof vacuums are specifically designed to safely vacuum explosive, combustible liquids and dusts. Our explosion proof/dust ignition proof vacuums are completely grounded and static dissipating because they are built entirely with non-sparking metals and do not have any painted components so there is no risk of fire or explosion from a spark or static build up. Compressed Air-Operated Vacuums have no motor or electrical components that can overheat and be a source of ignition. Our explosion proof/dust ignition proof vacuums comply with NFPA 484 guidelines and are an effective tool for good housekeeping practise as per OSHA.

#### Features:

- Powerful Suction - Highest Performance
- Air operated Pneumatic unit with no electrical components or moving parts so it can run continuously and will not overheat or breakdown
- Stainless steel construction makes it a solid unit that is easy to clean and sterilize
- Static dissipating ESD safe
- Complete with static dissipating suction hose and accessories
- Ergonomic and lightweight, weighing only 10 lbs
- Ideal for confined spaces and light applications
- Quiet operation with only 72 dB

#### Filtration System:

- 4-stage filtration system for maximum performance and efficiency
- Conductive ESD safe filters
- Conductive ESD safe collection filter bag
- **ULPA** Filtration with an efficiency of 99.9995% @ 0.12 micron. Testing Method: IEST RP-CC034.3. H15. MIL-STD 282 / A.S.T.M. - D2986-91. MPPS method EN 1822

#### Applications:

Hazardous flammable/combustible gases, vapors and liquids:

- Class I Group A (Acetylene, etc.)
- Class I Group B (Butadiene, Ethylene Oxide, Hydrogen, etc.)
- Class I Group C (Acetaldehyde, Cyclopropane, Diethyl Ether, Ethylene, Isoprene, etc.)
- Class I Group D (Acetone, Ammonia, Benzene, Butane, Ethane, Ethanol, Gasoline, Methane, Octane, Pentane, Petroleum, Propane, Styrene, Turpentine, Vinyl Chloride, etc.)

#### Combustible/Conductive\* dusts

- Class II Group E\* metal dusts (Aluminum, Bronze, Chromium, Iron Carbonyl, Magnesium, Tantalum, Titanium, Zinc, Zirconium, and other commercial alloys)
- Class II Group F Carbonaceous dusts (Carbon black, Charcoal, coke, coal, etc.)
- Class II Group G combustible dusts (Agricultural, Calcium, Chemical, Cocoa, Coffee, Corn, Cotton, Egg white, Epoxy resin, Flour, Grain, Lactose, Malt, Melamine, Milk, Oat, Plastic, Rice, Sodium, Spices, Starch, Sugars, Sulfur, Tobacco, Vinyl, Wheat, Whey, Wood, etc.)

\* NFPA guidelines recommend a maximum collection capacity of 5 lbs for combustible metals in a dry format. If you require a higher capacity, please see our Explosion Proof Immersion Separator Vacuums.

#### Specifications:

|                         |             |
|-------------------------|-------------|
| Model                   | AV1-1 EX CR |
| Air Flow (CFM)          | 120         |
| Vacuum Pressure (H2O)   | 200         |
| Collection Type         | Dry         |
| Capacity (gal)          | 1           |
| dB(A) @ 6 ft            | 72 dB       |
| Air Line Size<br>(I.D.) | 0.5"        |
| Input Pressure (PSI)    | 80 to 100   |
| Input Air Flow (CFM)    | 35          |

**\*\*Optional 3/8" (9.5 mm) I.D. Air Line Configuration Also Available\*\***

Included Accessories:

- Static dissipating air supply hose assembly 0.5" (12.7mm) x 25' (7.5m)
- Static dissipating suction hose assembly 1.25" (38mm) x 10' (3m)
- Stainless steel double bend wand assembly
- Floor tool
- Crevice tool
- Round tool

Optional Accessories:

- Extension wand
- Single bend wand
- Flat tool
- Dust extraction Arm

Options:

- Vacuum Gauge
- Needle/ broken ampule collector separator
- Dust Extraction Arm assembly

Filtration Options:

- Upstream **ULPA** Filtration with an efficiency of 99.9995% @ 0.12 micron. Testing Method: IEST RP-CC034.3. H15. MIL-STD 282 / A.S.T.M. - D2986-91. MPPS method EN 1822
- Upstream **HEPA<sup>Plus\*</sup>** Filtration with an efficiency of 99.995% @ 0.2 micron. Testing Method: IEST RP-CC034.3. H14. MIL-STD 282 / A.S.T.M. - D2986-91. MPPS method EN 1822.
- Activated Carbon Filtration System to adsorb solvent fumes and vapors

If you have a special application or specific requirement, please feel free to contact us. As manufacturers, we can modify our units to meet your specific needs.

Cleanroom, EXPLOSION PROOF DIVISION 1 (AIR), Explosion Proof, CLEANROOM (AIR)

