

**Certified
EXPLOSION
PROOF**



Currently, OSHA recommends following the NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids. This standard requires the use of an approved explosion proof vacuums that meet UL standards Class I, Div 1 and 2, Group D and Class II, Div 1 and 2, Group F & G.

FRV110

Electric, 110Volt, Explosion Proof Vacuum, 135 cfm

- Multi-stage centrifugal, high performance turbine with relief valve
- Rated for continuous duty operation 24/7
- Grounded hoses and tools
- Certified dustless filtration system
- Fully grounded filter
- External filter shaker
- Upgradeable to HEPA filter
- Foot lever actuated dustpan
- Dust free emptying
- Low center of gravity (will never tip over)
- Counterbalanced base
- Carbon impregnated, compression cast composite modular housing



Certified to:



Affected Industries:

- Abrasive products
- Alumina and aluminum production and processing
- Aluminum die-castings
- Aluminum extruded products
- Aluminum foundries
- Beet sugar
- Broadwoven fabric mills, man-made fiber and silk
- Burial caskets
- Cane sugar refining
- Cellulosic man-made fibers
- Chemicals and chemical preparations
- Coating, engraving, and allied services
- Crop preparation services
- Custom compounding of purchased plastics resins
- Drapery hardware and window blinds and shades
- Electric and gas welding and soldering equipment
- Electroplating, plating, polishing, anodizing, and coloring
- Establishments engaged in the generation, transmission, and/or distribution of electric energy for sale
- Fabricated metal products
- Fabricated rubber products
- Farm product warehousing and storage
- Finishers of broadwoven fabrics of man-made fiber and silk
- Flavoring extracts, syrups, powders
- Flour and other grain mill products
- Fresh cookies, crackers, pretzels, and similar "dry" bakery products
- Guided missiles and space vehicles
- Gum and wood chemicals
- Industrial inorganic chemicals
- Manufacturing industries
- Metal cans
- Metal heat treating
- Metal stampings
- Millwork
- Miscellaneous fabricated wire products
- Molded, extruded, and lathe-cut mechanical rubber goods
- Motor vehicle parts and accessories
- Noncurrent-carrying wiring devices
- Nonferrous foundries, except aluminum and copper
- Paints, varnishes, lacquers, enamels, and allied products
- Pharmaceutical preparations
- Plastic materials, synthetic resins, and non-vulcanizable elastomers
- Plastics foam products
- Plastics materials and basic forms and shapes
- Plastics products
- Prefabricated wood buildings and components
- Prepared foods and miscellaneous food specialties
- Primary production of aluminum
- Reconstituted wood products
- Refuse systems
- Sanitary treatment facilities
- Sawmills and planing mills
- Scrap and waste materials
- Secondary smelting and refining of nonferrous metals
- Soap and other detergents, except specialty cleaners
- Structural wood members
- Textile goods
- Tires and inner tubes
- Transportation equipment
- Unsupported plastics film and sheet
- Unsupported plastics profile shapes
- Wet corn milling
- Wood household furniture, except upholstered
- Wood kitchen cabinets
- Wood products



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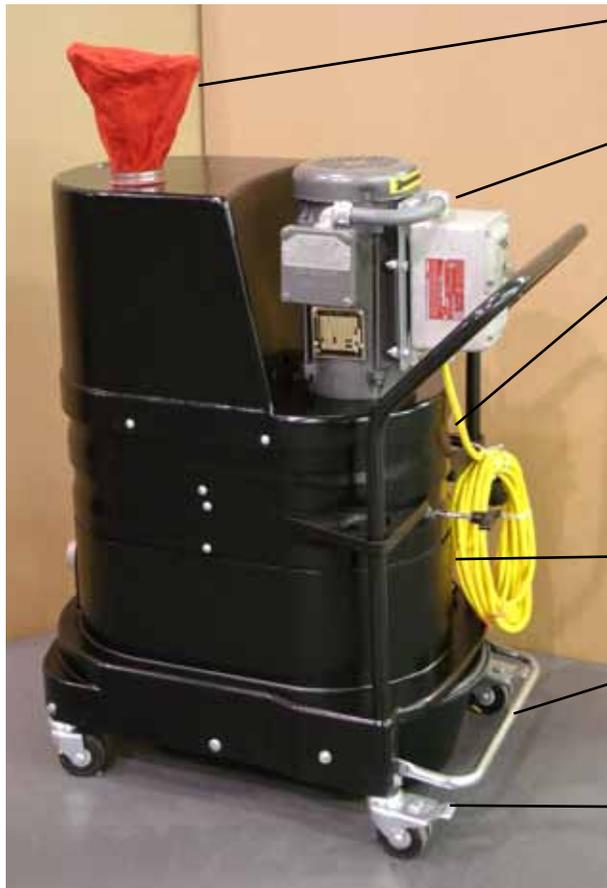


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Features of the FRV110



Air Diffuser/Silencer: The exhausted air from the turbine is diffused to prevent the re-entrainment of laden dust. The motor deck silencer provides a quiet working environment, even in continuous use.

Vacuum Producer: Single or Three Phase: Multi-stage centrifugal turbine produces more suction using less horsepower than any other in its class. Explosion proof TEFC Baldor® motor is maintenance free, rated for continuous duty and is completely serviceable at one of many locations nationwide. All motors are UL and CSA listed through their manufacturer and are approved for use in Class II, Dust-Ex locations.

Durable Housing: Constructed with 900 tons of pressure, compression cast composite housing will not dent, break or rust. The carbon impregnated housing is chemically neutral and static dissipating (<10-6 Ohms) to eliminate static discharge. Housing is modular to accommodate filter upgrades and is backed by our lifetime warranty.

Absolute Filtration: Optional 40 ft² HEPA filters are individually D.O.P. tested and certified to be 99.997% efficient at 0.3 microns. Our HEPA filters are made in accordance with UL standards. The use of a HEPA filter is recommended to collect and contain any lead by-product or remaining contaminants that may be present.

Superior Filtration: Our state-of-the-art, MicroClean filter provides 13 ft² of filtration that is 99.9% efficient at 0.5 microns. Primary oversized filter is low loading to prevent air flow constriction and features a reinforced steel frame and self-cleaning filter system.

Easy to Empty Dustpan: Large dustpan drops down with foot lever for easy emptying without heavy lifting of heavy motor deck or filter disassembly. Our filtration system has no messy pre-filters, consumables or bags to change. Dustless emptying leaves filter untouched to prevent recontamination of area.

Sturdy Base: Heavy-duty 3" double casters and base are fully grounded and provide easy portability. Aluminum inlet features a bronze deflector to drop material out of the air stream. Vacuum has low center of gravity and base is counterbalanced to prevent tipping.

Certified as:

Model #DS1-EX1000 for I, Group D, II, Group F & G

Motor Type:

Single Phase*

Horsepower:

1.5 HP

Voltage:

110Volts

Amp:

16 Amp

Hz:

60Hz

Noise Emission:

68 dBA

Casters:

3" heavy duty conductive

Dimensions:

35.25" x 24.5" x 35"

Vacuum Pressure:

5Hg

Air Flow:

135CFM

Filter:

13 sq ft MicroClean BVSC

Filter Efficiency:

99.9% @ 0.5 micron

Shaker:

Manual

Collection Capacity:

9 gallons

Inlet:

2" w/bronze cast deflector

Weight:

150 lbs

Included Accessories:

1.5" x 10', urethane, static conductive, molded carbon impregnated cuffs, 54", aluminum shaft, 2 bends, 11", aluminum body, 3", nylon bristles, static conductive, carbon impregnated, 14", metal body, anti-static bristles, 2" x 1.5". HEPA filter available as an option.

* Also available in three phase and pneumatic power sources.



Fully-conductive Rubber Tools for Explosion Proof Vacuums

Each 1.5" rubber tool connects with stainless steel, is non-scratching and non-denting.

35651 - Bulk pick-up tool

35652 - 4" round, brass/nylon conductive bristle brush

35653 - 8" bent rubber nozzle

35654 - 6" crevice tool

35655 - 12" flexible rubber nozzle with 90 bend

36556 - 5" utility tool



35652