

# Industrial Vacuum Cleaning Systems

VAC-U-MAX®

SINGLE SOURCE  
CUSTOM ENGINEERING  
APPLICATION EXPERTISE

**VAC-U-MAX**

DELIVERING MORE

GLOBAL SERVICE & SUPPORT  
100% GUARANTEED  
SINCE 1954



# Compressed-Air Powered Vacuums, General Purpose

VAC-U-MAX invented the world's first vacuum cleaner for operation on compressed air in 1954. The variable orifice venturi allows operation with the lowest air consumption on the market, yet also allow you to double the vacuum level if you have more compressed air. VAC-U-MAX air vacuums will work longer than other vacuums because there are no moving parts, utilize a heavy-duty filter and cage with protective supports and low noise operation.



MDL005. Single Venturi, Dry Only, Air Powered Vacuum with 5 Gallon Capacity Pail.  
**Performance:** • Vacuum Power Source: Single Venturi. 1/2 NPT High Pressure Air Connection, 35 CFM required. • Maximum Suction Power 16" HG • Maximum Air Flow 100 SCFM • Stainless Steel construction. Also available on complete package for combustible dust applications.

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MDL TK-01 (1.5" Inlet) & TK-02 (2.0" Inlet). Liquid Recovery Vacuum. Unique design fills 99% of closed top drums at rates of up to 2 gallons per second.  
**Performance:** • Vacuum Power Source: Single Venturi. 1/2 NPT High Pressure Air Connection, 35 CFM required. • Maximum Suction Power 16" HG • Maximum Air Flow. 100 SCFM • Carbon or Stainless Steel Construction.

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MDL30 & MDL55. Air Powered Vacuums for Wet or Dry Material. These are the most versatile, heavy duty and efficient vacuums on the market today. Adjustable suction power from 110" H2O to 215" H2O, 3X the suction of comparably priced electric units, up to 400 CFM air flow. Great for liquids, picks up 2 gallons per second.  
**Performance:** • Available with Single, Twin or Four Venturi\* Jet Power Units • Dry only or wet dry versions. • Maximum Suction Power 16" HG • Maximum Air Flow 400 SCFM • Carbon Steel or Stainless Steel Construction.

\*MDL55 only

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MDL30 & MDL55 PFC. Air Powered Vacuum, Dry Only Non Combustible for Fine Powders such as cement. Perfect for powder coating operations. Pulse Filter Cleaning keeps filter clean during operation. The unique adjustable venturi operates on low air consumption for light cleaning or high vacuum for tough jobs.

**Performance:** • Available with Single, Twin or Four Venturi Jet Power Units. • Maximum Suction Power 16" HG • Maximum Air Flow. 400 SCFM • Non stick filter media rated 99.9% @ 1 micron particle size. • Carbon Steel or Stainless Steel Construction (MDL30 in single venturi version only)

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MDL 55 HEPA. Air Powered Vacuum for fine dry materials.

The 55AF is equipped with an extra large PTFE (Teflon coated) primary filter rated 99.9% efficient @ 1 micron. It is also equipped with a secondary HEPA filter rated 99.97 % efficient @ 0.3 micron.

**Performance:** • Available with Single or Twin Venturi Jet Power Units. • Maximum Suction Power 16" HG • Maximum Air Flow. 200 SCFM • Carbon Steel or Stainless Steel Construction (MDL30 in single venturi version only)

Also available in complete packages certified for combustible dust applications.

# Compressed-Air Powered Vacuums, Specialty Applications

These VAC-U-MAX vacuums are engineered for specific applications that address issues of chemical compatibility, flammability, combustibility, worker exposure to collected dusts and the unique needs of the metalworking industry. These vacuums are sold as a “package” with a collection container, a drum dolly or cart, and an engineered hose and tool kit.



MDL55. Flammable Liquids Recovery. This vacuum cleaner is designed for safe recovery of Gasoline, Diesel, JP-4 and JP-5 Jet Fuels plus Non-Combustible Liquids. The vacuum is compressed air powered, non-electric with no spark hazards. Will pick up over 1 gallon per sec. Meets GSA Specifications for NSN-7910-00-632-9840 Vacuum Cleaner Pneumatic. • Available in Single or Twin Venturi • Carbon Steel or Stainless Steel Construction

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MDL55 Combustible Dust Vacuums. VAC-U-MAX compressed-air powered vacuums, Models 40008, 40012, and 40013, are the first-line offerings for Class II environments due to their bumper-to-bumper grounded and bonded design and their reasonable cost and availability. These vacuums meet the NFPA 77 requirements for grounding and bonding. These vacuums also meet the definition of an “intrinsically-safe system”. VAC-U-MAX air-powered vacuums do not use electricity and do not generate any heat from operation. • Available in Single (30 & 55) and Twin Venturi (55 only) • Carbon Steel Construction • Stainless Steel Construction for Class 1 environments.

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MDL860. Continuous Bagging. The VAC-U-MAX Model 860/02 is perfect to eliminate drum handling, and collect and discharge their powders in a safe, dust-free & convenient way. The Model 860/02 uses the field-proven VAC-U-MAX Air-Powered Vacuum cover with manual pulse-jet filter cleaning and non-stick filtration that captures 99.9% of particles as small as .5 microns. The rugged portable frame includes a collection hopper with automatic discharge valve and polybag loading accessory. When the vacuum is turned off, the collected powder automatically discharges into off-the-shelf static-conductive polybag. The Model 860/02 vacuum is intrinsically safe with its fully grounded accessory kit, static-conductive filter media, and anti-sparking material inlet to allow the vacuum to be used in Class II, Division 2 environments as required by OSHA. The high vacuum and low noise level of the VAC-U-MAX Model 860/02 add to the user-friendliness and cleanliness of your facility. • Single and Twin Venturi versions • Up to 200 cfm • Maximum vacuum 16” HG.

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MDL55MW. Metal Working. The 55MW is a complete system for cleaning 100% liquids or liquids with solid particles such as metal chips or shavings. Operators can quickly empty machine tool sumps, machining beds, oil/water separators, parts washers, rinse tanks and clean up liquid spills. Solid particles are separated from collected liquid with the VAC-U-MAX Chip Basket and Liner. This Industrial Vacuum Cleaner will clean up at rates of 1-2 gallons per second (60-120 GPM). With the turn of a lever the 55MW Industrial Vacuum Cleaner will pump out the liquid contents of the drum through the discharge hose to a central filtration system for coolant/oils or approved floor drain. • Single and Twin Venturi versions

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MDL55-SR Submerged Recovery System with dispersion screen and splash baffle renders explosive powders inert by drawing debris under liquid with an extended inlet assembly; and safely separates debris from the air stream. The Model 55SR has an efficient venturi design that produces maximum suction with minimum air consumption. Please insure that you have the proper compressed air supply for optimum performance of the vacuum. • Single and Twin Venturi versions • Full Stainless Steel Construction.

# Continuous Duty Electric Vacuums



Model 150 Continuous-Duty Portable Vacuum designed to handle the most difficult powders, as well as metal chips and bakery products. It can support one operator up to 50' feet away from the vacuum and also provides excellent suction for overhead cleaning.

**Performance:**

- Maximum Suction Power 7" Hg. (95" H2O)
- Maximum Air Flow 260 CFM
- Suction Connection 2.0"
- Motor 5 HP TEFC or XP
- Capacity of Container 18 gallon
- Standard finish Blue Powder Coat



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MDL850. High-powered portable vacuum on heavy-duty frame for one operator or three simultaneous operators. Unique continuous bagging system for collected materials reduces worker exposure to collected dusts and eliminates steel drum handling. The unique backwash filter cleaning system avoids the need for compressed air and provides extended vacuuming times for the finest of powders. Primary filters are non-stick and a secondary filter is standard (HEPA filter is optional).

**Performance:** Motor: 8.5 HP / 3ph TEFC with NEMA 4 control panel • Maximum airflow: 400 CFM • Maximum Vacuum: 8" Hg (108" waterlift) • Inlet size: 3.0".



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MDL650. High-powered portable vacuum on heavy-duty frame with convenient single-phase 240V motor. Unique continuous bagging system for collected materials reduces worker exposure to collected dusts and eliminates steel drum handling. The unique backwash filter cleaning system avoids the need for compressed air and provides extended vacuuming times for the finest of powders. Primary filters are non-stick and a secondary HEPA filter is standard.

**Performance:** Motor: 2.5 HP / 240V / 1ph TEFC with NEMA 4 Start/Stop • Maximum airflow: 160 CFM, Maximum Vacuum: 8" Hg (108" waterlift) • Inlet size: 2.0".



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Model 1050. This heavy duty vacuum unit is designed specifically for tough industrial environments, and will handle just about anything including steel chips, sand blast media, steel shot, bulk powders and much more. The backbone to this vacuum system is a positive displacement vacuum producer driven by a 10 or 15 horsepower 3-phase continuous duty electric motor. The PD pump provides superb airflow performance at high vacuum. The power of the 1020MFS allows it to vacuum bulk spills at a rate of 5 tons per hour or support long hoses up to 200 feet.

**Performance:**

- 10 or 15 HP Positive Displacement Rotary Lobe Pump
- Motor TEFC or XP, 1750 RPM
- Capacity of Container 40 gallon
- Blue powder coat finish
- Secondary Filter (HEPA Optional)
- 240 cfm (10 HP) or 380 CFM (15 HP) @12" HG



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Model 1500FP. This vacuum is designed with a large diameter inlet and hose for picking up bulky items such as metal chips, plastic chips and flashing. Equipped with pulse jet filter cleaning it is also great for fine powders. Supports Up to five operators using 1.5" hose at one time. The Model 1500 is equipped with a 55 gallon steel drum. Low cost, compact central vacuum requires no foundation. Plug and Play design.

**Performance:**

- Motor: 20 HP or 30 HP TEFC
- Maximum Airflow: 850 ACFM @ 60hz
- Maximum Vacuum: 8" Hg (111" H2O)
- Inlet size/ Type: 4" Camlock w/ coupler
- Filter area: Primary: 85 ft<sup>2</sup>
- Filter type: PTFE Cartridge
- Filter efficiency: 99.9 % @ 0.5 micron
- Secondary Filter
- Collection capacity: 7 ft<sup>3</sup> / 55 gallon

# Intercepts and Hoppers



Model 30R and 55R Intercept Covers fit standard 30- and 55-gallon open-top steel drums with rolled rims. Available with or without a dust filter and reliable AutoVac liquid cut-off. These models are designed for dry only or wet/dry applications (or wet-only applications by removing the filter and support cage). Carbon steel or Stainless Steel construction. Inlet and outlet connections can be mixed or matched from 1.5" to 3.0" size. Also available with HEPA filtration for dry fine/hazardous materials.

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VAC-U-MAX Model 115 Intercept Cover is designed primarily for abrasive materials with its replaceable impact baffle and heavy-duty dome cover. Collected material impacts the baffle and falls out of the airstream. The Model 115 is raised above the top of the drum for optimum velocity-drop and maximum collection capacity. A choice of inlet / outlet sizes and styles can be supplied to suit your application from 1.5" to 4.0". The Model 115 can be utilized on 55-gallon steel drums or any VAC-U-MAX intercept hopper with 22"-diameter opening. Carbon steel and Stainless Steel construction are available.

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VAC-U-MAX Wall or Column Mount Intercept saves valuable floor space. Complete with 22" diameter offset cone and 6" manual butterfly discharge manual valve to discharge in customer-supplied container.

- Heavy duty frame mounts to flatwall or column and includes front hose rack.
- Carbon Steel or Stainless Steel construction.

Wall-mounted receivers can be equipped with any Model 55 (air-powered or electric drum top) vacuum power head (Sold Separately) shown above. • Dry material use only.

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Model 6X22HD Intercept. Heavy-duty hopper mounted in square-tube forklift frame to conveniently discharge collected materials into a customer's container, or returned to a manufacturing process without the need to turn over a drum. Heavy-duty stainless steel slide gate with handwheel operation allows control of the discharging material. The 7 ft<sup>3</sup> hopper will accept a VAC-U-MAX Model 115 intercept cover (shown in photo) or MDL 55 compressed-air-powered vacuum (covers and vacuums sold separately). Carbon steel hopper/frame construction is standard.

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VAC-U-MAX Self-Dump Hoppers allow for extended vacuuming times and large-volume recovery of wet and/or dry materials. The heavy-duty reinforced containers are constructed of carbon steel with a blue epoxy finish, and are rated for 16" Hg (220" waterlift) maximum vacuum. They are supplied in 1- and 2- cubic yard capacities. A gasketed full-width opening door provides quick emptying of the container and easy clean-out. A heavy link chain with eye hook hold the door open during dumping. The self-dumping hopper is a familiar and convenient tool for operations and maintenance personnel. (Shown with air powered vacuum on the cover)



MDL1020XP with self dumping hopper

# Central Vacuum Cleaning Systems



VAC-U-MAX is a worldwide leader of today's most innovative industrial vacuum cleaning equipment and central vacuum cleaning equipment.

Our industrial vacuums are used in all applications from general plant clean up to high volume recovery of material. At VAC-U-MAX, we've redefined the vacuum cleaning industry by offering the latest technology in filtration and material handling.

We're material handling specialists! We provide choices of collection containers and disposal techniques to match your material handling requirements. Some VAC-U-MAX systems can eliminate material handling completely.

- □ VAC-U-MAX selects the best vacuum producer for the application. A wide range of performance with local service and warranty support.
- □ VAC-U-MAX supplies written performance guarantees. A nationwide network of independent dealers will evaluate your application and provide local support after the sale.
- □ Most VAC-U-MAX systems provide tool-free access and change out of all filter elements which promotes preventative maintenance and results in minimum downtime.
- □ VAC-U-MAX saves on installation costs. Our preassembled design reduces mechanical and electrical contractor labor cost.
- □ VAC-U-MAX manufactures all of our equipment in our 70,000 square foot facility. We are also a Certified UL Control panel Builder.
- □ Contact us to arrange a site visit or to receive a copy of our inquiry form.



# Hose, Tools and Accessories

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### The Perfect Pick-Up Line.

#### Industrial Vacuum Cleaning Systems from VAC-U-MAX

VAC-U-MAX is a premier manufacturer of industrial vacuum cleaning systems for production lines and other dust-intensive areas. With a VAC-U-MAX heavy-duty industrial vacuum cleaning system on site, both your capital equipment and your employees will be safer and cleaner. So put our field-proven industrial vacuum cleaning systems to work for you, and watch dust and other particulate contamination simply disappear.

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**VAC-U-MAX**  
Belleville, New Jersey

VAC-U-MAX was founded in 1954 with the invention, patenting and production of the world's first compressed-air-powered vacuum. We continue to lead the industrial vacuum industry today in best practices and innovative technology for the safe and successful vacuuming of combustible dusts such as solid rocket propellant, aluminum and magnesium dusts, coal dust, cornstarch, powdered milk, cocoa powder, sugar, rubber dust, methylcellulose, plastic dusts, paper dust, ordnance materials, wood dust, toner, etc.

Compliance with the latest versions of NFPA 68, 69, 77, 484, 654, 850 and others. Awareness of the OSHA National Emphasis Program for Combustible Dusts and the National Electric Code, full documentation and our experience are all part of the package when you purchase equipment for combustible dusts from VAC-U-MAX.

And since we engineer and manufacture and assemble all of our systems for combustible dust handling in our 70,000 square foot plant, we have control over the quality and finish...we can customize our standard products to suit your existing plant conditions. Control Panels are all built in our UL-certified electrical department. You are welcome to visit VAC-U-MAX. Watch us produce your equipment, inspect it before shipment, or conduct a Factory Acceptance Test (FAT). And you can sleep well at night with our unique Air-Tight Performance Guarantee.

Made with Pride in America

**VAC-U-MAX**

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