



HOFFMAN



LAMSON

by Gardner Denver

RELIABLE SOLUTIONS FOR INDUSTRIAL APPLICATIONS

ENGINEERED VACUUM SYSTEMS



ENGINEERED VACUUM SYSTEMS

For Industrial Applications

Anchored in tradition, the Hoffman & Lamson Engineered Vacuum System line-up continues a century long commitment to providing customers with innovative design, a comprehensive product line, quality manufacturing, and ongoing advances in efficiency and sustainability. No other company has the capability, reputation and dedicated engineering expertise to deliver the most advanced, efficient and dependable high quality products available today.

Our Expertise

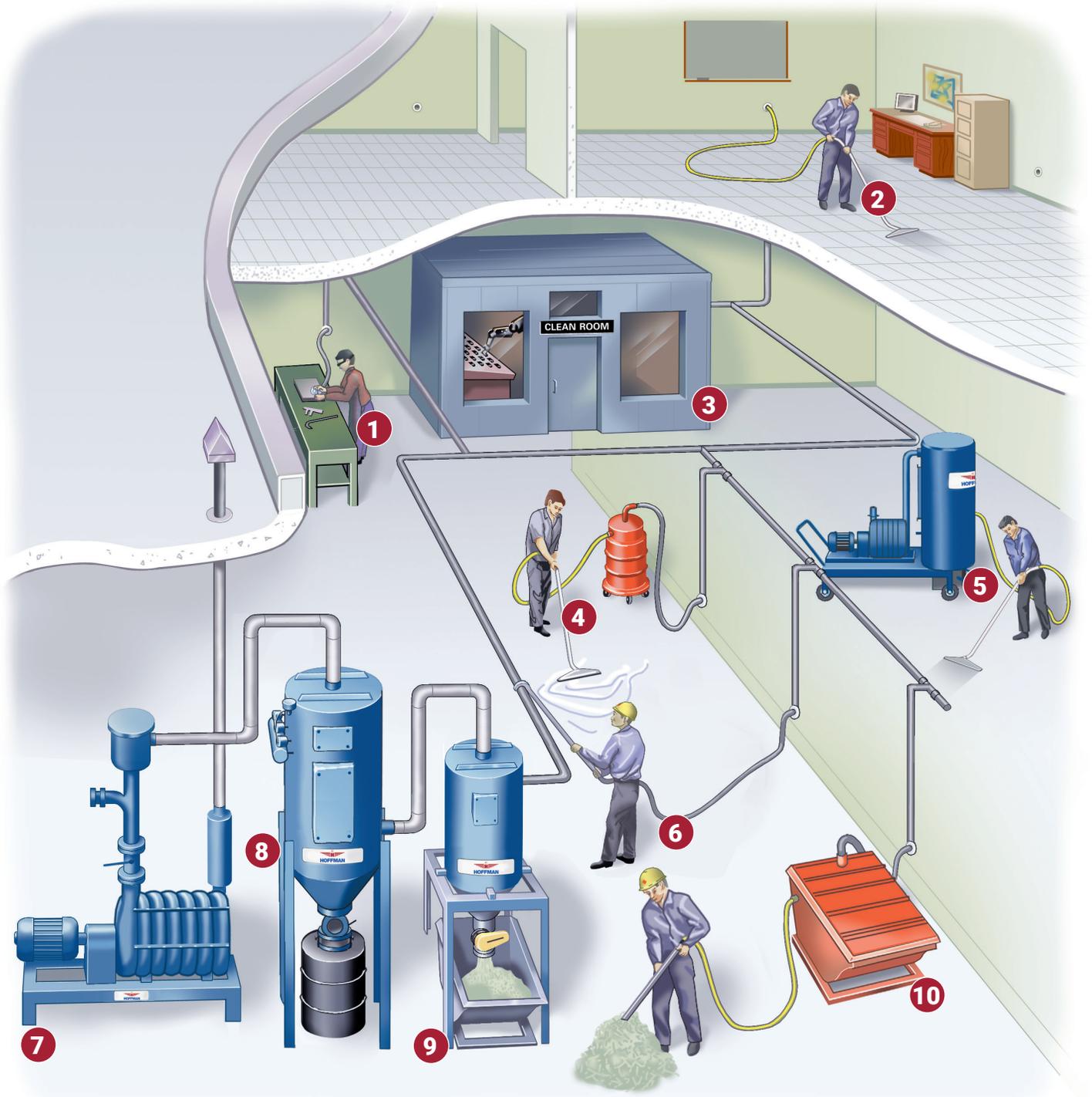
Hoffman & Lamson Engineered Vacuum Systems are designed to do more. Backed by over 100 years of design and engineering expertise, your Hoffman & Lamson's Vacuum Expertise includes:

- Housekeeping
- Pneumatic Conveying
- Product Reclamation
- Hazardous Dust Control

Our Solutions

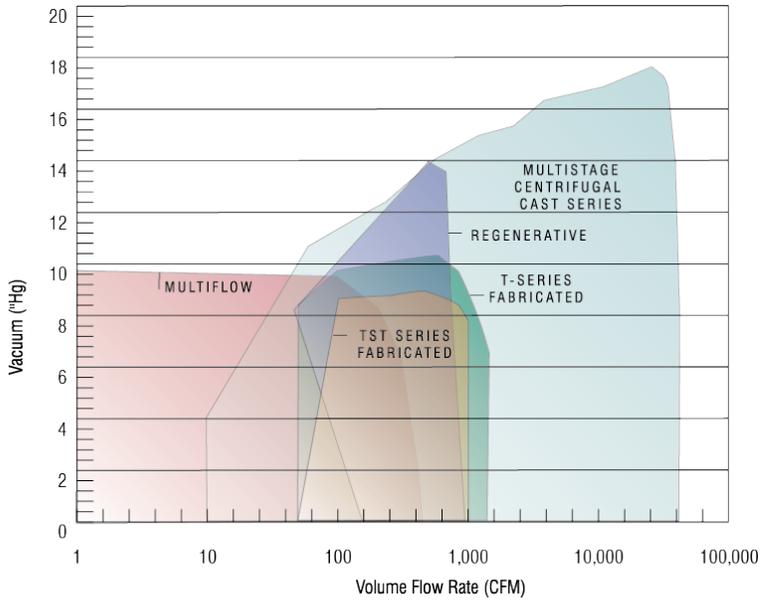
- Pre-Engineered and Custom Designed Systems
- Stationary and Portable Systems
- Primary and Secondary Separators
- Controls for Monitoring and Efficiency
- Accessories: Filters, Explosion Proof Upgrades, Hoses, Tools and More.





- 1** High velocity, low volume dust pickup for hand tools
- 2** Central vacuum, office work
- 3** Clean room central vacuum system
- 4** Wet pick up application with liquid separator
- 5** Portable vacuum system

- Overhead cleaning with wall rod and pipe brush **6**
- Multistage centrifugal exhauster - industrial duty **7**
- Hoffco-Pulse secondary separator with continuous discharge **8**
- Primary separator with continuous discharge **9**
- Bulk pickup with material dropping out in hopper **10**



EXHAUSTERS

The heart of any vacuum system, whether central or portable, is the exhauster. Hoffman & Lamson offers centrifugal and regenerative exhausters for engineered vacuum systems, backed by proven reliability with over 100,000 machines in operation worldwide.

LAMSON TURBOTRON™

Regenerative Half & Full Flow Exhausters

The Lamson TurboTron is specifically designed to provide continuous flow and pulse-free air while delivering quiet and clean vacuum (82 dBA at 3 feet, up to 14 \"Hg.)

- Airflow to 900 cfm
- Vacuum to 14 \"Hg

Lamson TurboTron is practically maintenance free with only one moving part and no timing gears. High tensile strength aluminum housing is corrosion resistant and uses a non-binding Teflon® seal in close tolerance areas. Bearings require only occasional greasing and the shaft seals are non-contacting and non-wearing.



LAMSON MULTIFLOW

Built of lightweight, durable, aluminum alloy castings, Lamson's Multiflow exhauster offers proven vacuum performance on a portable, fabricated steel base.

- Airflow to 250 cfm
- Vacuum to 7 \"Hg

The 4-stage, belt-driven design offers high performance and economy. Cast aluminum impellers are backwards curved and dynamically balanced to provide years of trouble free operation.

CAST SERIES MULTISTAGE CENTRIFUGAL

The Hoffman & Lamson cast series offers the broadest range of sizes & volume with models for 60 Hz and 50 Hz operations.

- Airflow to 41,000 cfm
- Vacuum to 17.6 "Hg



T-SERIES MULTISTAGE CENTRIFUGAL

Cast aluminum heads for great efficiency, durability and stability. Four bearing design eliminates excessive load on the inner bearings, increasing bearing life; allows use of a short shaft motor for quick and easy replacement without removing the rotating assembly.

- Airflow to 1,400 cfm
- Vacuum to 11 "Hg



TST SERIES STANDARD OVERHUNG FABRICATED MULTISTAGE CENTRIFUGAL

Advantages of Hoffman & Lamson multistage centrifugal at the most economical price point. Excellent for less demanding applications that do not require high vacuum performance.

- Airflow to 1,300 cfm
- Vacuum to 8.7 "Hg



COLLECTORS

Hoffman & Lamson offers an extensive line of collectors, each with specific attributes and functions that can be customized to accommodate nearly any application.

PRIMARY COLLECTORS

Used When Large Quantities of Bulk Solids are Part of the Collection Process

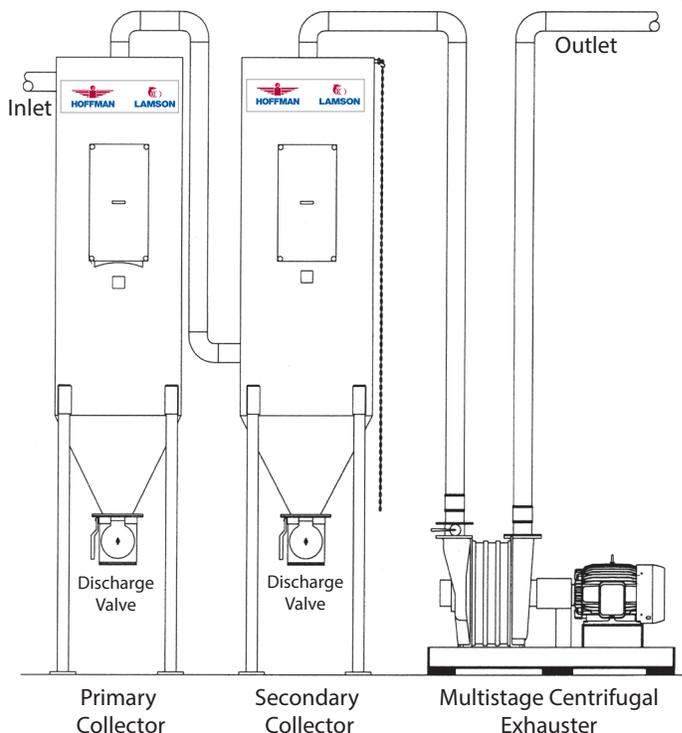
Primary collectors are usually equipped with cone bottoms and often store solid particles for longer periods of time. Dust laden air and heavy particulate enter the collector tangentially at the top, outside a cylindrical baffle plate. Cyclonic action and reduced velocity precipitate the heavier material to the bottom of the tank. Up to 95% of the material is retained, with the remainder carried to the secondary collector for capture.

Hoffman and Lamson collectors can be mounted on legs or saddle supports, may be provided with a cone bottom or dust buckets and are offered with a variety of accessories.

SECONDARY COLLECTORS

Used to Capture Remaining Material Passed on From the Primary Unit, or Used Alone for Low Dust Applications

Secondary collectors are similar to primaries in that they can also use cyclonic action and reduced velocity to drop out larger, heavier particulate, but they also use bag or cartridge filters to capture particulate. Low dust applications often use this type of collector without a primary. Various mounting options and accessories are available.



CUSTOMIZE YOUR SYSTEM

SEPARATOR AND PRIMARY COVERS, AND FILTERS

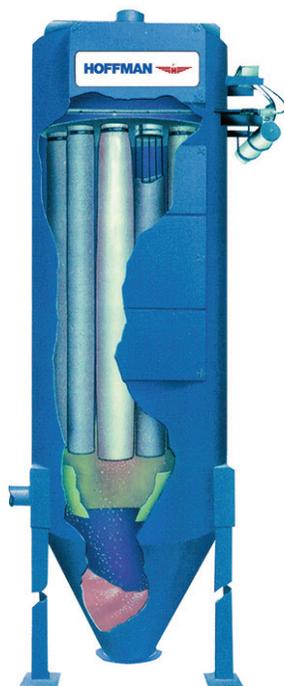
- L-Style Inline Filters (HEPA Available)
- SLS-Liquid Separator Tanks
- A-Series 55 Gallon Drum Covers
- Hoffman Style 55 Gallon Drum Covers
- Flux Primary Tanks/Covers

ACCESSORIES

- Level Sensors
- Broken Bag Detectors
- Rotary Airlocks
- Equalization Lines & Bags
- Vibrators
- Multiple Bag Options
- Platform Ladders
- Removable Wear Plates
- Photohelic Gauges
- Maghelic Gauges
- Single/Double Hinge Valves
- Timer Boards
- Explosion Vents
- Isolation Systems
- Suppression Systems

SECONDARY COLLECTORS

PRIMARY COLLECTORS



**HOFFCO-PULSE
SECONDARY**

Uses reversed airflow to dislodge accumulated dust without disrupting service. Pulse durations are adjustable by means of a timer for optimum bag cleaning. The HOFFCO-PULSE is available with cone bottom or dust bucket, and are one of our most popular models for a wide range of separation needs.



**S-TYPE
SECONDARY**

Multiple tubular dust bags trap fine particles not captured by the primary collector. Various fabrics are available to provide the most effective filtration for each application. Dust bags may be cleaned manually or automatically using an electric bag shaker.



**TURBOCLEAN
CARTIDGE
PULSE-JET
FILTRATION**

Filter capacities from four 8"x16" to thirteen 12" x 36". Reverse jet continuous cleaning, pleated cartridge filter elements, drum lid and connective sleeve to cone. Filter medias include poly-felt, spunbonded and PTFE membrane.



**S-TYPE
PRIMARY**

Capture, separate and filter solids directly from the piping systems by baffle plates and cyclonic action. Up to 95% of the solids can be continuously discharged or retained for future disposal. Available with cone bottom or dust bucket.



SELF-CONTAINED VACUUM SYSTEMS

Hoffman & Lamson portable vacuum systems are mounted on a common frame and include the exhauster, motor and secondary type collector. They can be stationary, skid mounted for small central systems, or mounted on wheels for complete mobility.

EXHAUSTER

Heavy-duty multistage centrifugal vacuum produces standard 5 to 20 horsepower ranges, and handles up to 8 operators simultaneously.

- Regenerative
- TST-Series Fabricated
- T-Series Fabricated

COLLECTOR

Heavy gauge carbon steel is standard, with stainless steel and other optional alloys available.

- S-Type Secondary Collector with snap-in bag filters and other accessories

DUST BUCKET

- 1.5 to 3.0 cubic feet capacity

OPTIONS

- Electric Bag Shaker or Hoffco-Pulse Bag Cleaning Systems
- In-line HEPA filter
- Cone bottom with adjustable legs



MOBILE UNIT



STATIONARY UNIT

HOSES & TOOLS

The right tool for every job!

Fully realize the benefits of your vacuum system with a variety of hoses and tools that are practical and easy to use.

Hoffman & Lamson offer a variety of hoses from general to heavy duty.



HOSES

AVAILABLE IN 1.5 & 2 INCH

- General Duty
- Heavy Duty
- Static Grounded Heavy Duty Hoses Available

TOOLS

AVAILABLE IN 1.5 & 2 INCH

- Floor Rods
- Floor Tools
- Bulk Conveying Tools
- Hand Tools
- Utility Tools

SMOOTH FLOW TUBING & FITTINGS

DECREASE FRICTION LOSS

Our lightweight tubing and fittings provide efficiency and cost effective piping – and are selected worldwide in place of heavy, cast iron piping.

- Available in sizes from 2 1/8" to 14" OD
- Gauges 16 through 11
- Available in Carbon Steel, Zinc Coated (Galvanized), Stainless Steel and Aluminum

Our engineering team will facilitate the installation or upgrade of your system by providing layout drawings, and information on the correct method of installation. A full supply of Smooth Flow tubing and fittings is available and ready for shipment.



ACCESSORIES & CONTROLS

Customize your system and maximize performance and efficiency with Hoffman & Lamson accessories.

IN-LINE HEPA FILTER



DRUM TOP COLLECTOR



AIR-LOCK VALVES

- 8" Single or Double Flanged - Manual or air operated, leakproof and self compensate for wear
- Rotary & Slide Valves also available

AUTOMATIC AIR BLEED SYSTEM

Operate your vacuum cleaning system during low demand periods.

EQUALIZATION LINE

Securely positions plastic liners in the collector dust bucket.

IN-LINE FILTERS

- HEPA Absolute Filters - 99.7% effective on 0.3 micron size materials

CONTROLS & INSTRUMENTATION

Monitor your vacuum system, improve efficiency and protect your investment with controls and instrumentation from Hoffman & Lamson.

RIGEL CONTROLS

Rigel Controls are engineered with the newest technologies, yielding cost effective, flexible, and robust systems for multistage centrifugal blowers. Through energy savings, Rigel Controls offer an accelerated payback on initial investment, with added features that are unmatched by ordinary VFD's.

SMART METER

Designed to protect single blowers in constant speed applications, the SmartMeter II monitor includes three digital displays, two inputs and four alarm outputs. SmartMeter II can be configured for a variety of blower protection applications. The SmartMeter II can monitor any of the following: motor amperage/airflow, vibration, temperature or pressure, with the ability to alert the customer and shut down the blower.

COLLECTOR OPTIONS

- Wet Separators - remove moisture from the air stream
- Drum Top Separators - remove materials prior to the tubing system

EXPLOSION PROOF YOUR SYSTEM

From explosion vents to isolation valves, suppression systems and flameless devices, our systems offer customizable options that minimize potential for combustion.

- Cast Iron Exhausters with Aluminum Impellers
- Explosion Proof Motors
- Grounded Filters
- Chemical Isolation
- Mechanical and Passive Isolation Valves
- Explosion Vents
- Suppression Systems
- Flameless Venting Devices



HOFFMAN & LAMSON CERTIFIED™ Service & Support

Count on Hoffman & Lamson for the highest quality repairs and service at a competitive price. The Hoffman & Lamson Certified Service Team provides fast, expert repairs, service and preventative maintenance for centrifugal blowers and engineered vacuum systems.

Protect your investment. Maintain performance. Improve reliability. Hoffman & Lamson Certified Service and Support.

WHAT WE OFFER

- Factory Trained Technicians
- Strategically located Service Centers
- Hoffman & Lamson Certified OEM Parts



FACTORY SERVICES

- Inspection & Analysis
- Blower Restoration & Repair
- Rotor Balancing
- Testing
 - ASME
 - Gas
 - Mechanic
 - Hydrostatic
 - Overspeed
 - Dye Penetrant

FIELD SERVICES

- Warranty Renewal
- Start-up & Operator Training
- Vibration Analysis
- Laser Alignment
- Troubleshooting

OEM PARTS & LUBRICANTS

- Genuine AEON Blower Oil & Grease
- Bearing Kits & Housings
- Seal Kits
- Impellers
- Replacement Hoses, Tools & Accessories



HOFFMAN® & LAMSON® Products & Systems



HOFFMAN & LAMSON Multistage Centrifugal Blowers

HOFFMAN & LAMSON Multistage Centrifugal Blowers are the ideal solution for processes that require uniform pressure, pulse-free flow, and oil-free operation. With designs optimized for 60 and 50 Hz markets, we offer efficient performance backed by a history of reliable operations.



HOFFMAN REVOLUTION™ High Speed Centrifugal

The HOFFMAN REVOLUTION High Speed Centrifugal Blower utilizes advanced centrifugal engineering technologies that deliver up to 45% energy savings, provide increased reliability with little or no maintenance, and come factory pre-wired and tested in an ergonomically designed sound enclosure for plug-and-play operation.



Controls & Energy Management

Considering an efficiency upgrade? HOFFMAN & LAMSON upgrades and High Speed Centrifugal Blower solutions deliver increased efficiency and improved reliability.



Support, Service & OEM Parts

Restore blower performance and maintain system reliability with HOFFMAN & LAMSON OEM Service, support, and parts - available through our global network of HOFFMAN & LAMSON CERTIFIED™ Service & Distribution Centers.



LAMSON

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