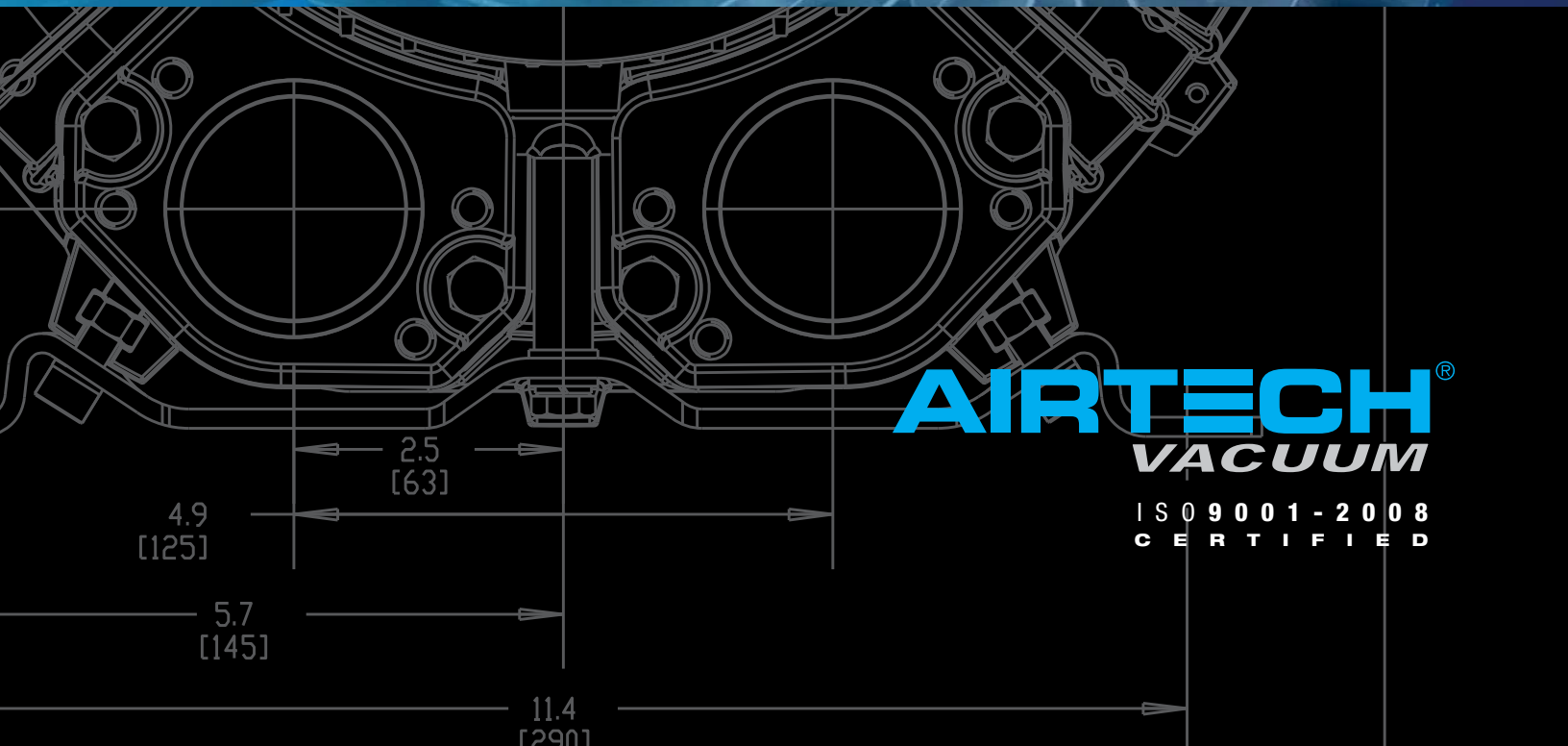


Blowers | Vacuum Pumps | Compressors



**INNOVATION | DESIGN | SOLUTIONS**



**AIRTECH<sup>®</sup>**  
**VACUUM**

ISO 9001-2008  
CERTIFIED

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## Airtech Works to Meet Your Needs

### Equipment That Works For All Applications

- Aeration
- Central vacuum systems
- Coating
- Crystalization
- Degassing
- Distillation
- Drying
- Electronics
- Evaporation
- Food Processing
- Freeze drying
- Gas boosting
- Lab & medical vacuum systems
- Landfill/Biogas
- Lifting and handling
- Meat packing
- Packaging and processing
- Paper handling
- Plastics extrusion
- Pneumatic conveying
- Printing
- Remediation
- Solar manufacturing
- Sterilization
- Thermoforming
- Vacuum forming
- Vacuum hold down (CNC)
- Vacuum infusion
- Vapor recovery
- Water treatment

Established in 1982, Airtech, Inc. is a leading global manufacturer and supplier of vacuum pumps, blowers, compressors and systems. In addition to a broad range of ready-to-ship products, we have the experience, expertise, technology, and design capabilities to quickly develop customized solutions that are backed by ISO9001 Certification.

Airtech's headquarters is located in Englewood, NJ with operations in Marietta, GA; Novato, CA; Schweinfurt, Germany; and Shenzhen, China; and a far-reaching network of distributors that offer responsive and reliable sales and service support. Our engineering design and manufacturing centers in the U.S., Europe and Asia give us access to worldwide resources so we can provide the most innovative and cost-effective solutions that work for you!





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## 3BA Series



### Vacuum/Pressure Regenerative Blowers

The 3BA series of regenerative vacuum/pressure blowers is the ideal alternative to standard rotary vane pumps and PD/rotary lobe blowers. Lightweight and compact design adds to ease of operation, and close-coupled construction allows the 3BA to be quickly integrated into your existing system. The units are oil-free, maintenance-free and operate at an industry low dB(A) sound level. The 3BA has an operating capacity range of up to 1500 CFM and can achieve an end vacuum up to 20" Hg or a pressure of 13 PSIG.

#### FEATURES:

- Cooler running, outboard bearing provides maintenance-free operation
- Environmentally friendly oil-free technology
- Extremely quiet operation
- Variable Speed Drives available
- All motors are standard TEFC with Class F insulation, UL recognized, CE Compliant  
Explosion-Proof motors available
- Custom construction blowers are available
- Rugged die cast aluminum construction

## Custom Solutions



**At times, our clients realize that the best solution is a custom solution – and here are examples of how Airtech delivered!**

### Drive Hermetically Sealed for Dangerous and Poisonous Gases

The client needed a hermetically sealed blower for maximum protection, plus a magnetic drive to enhance leak tightness between the motor and pump housing. This custom-designed pump featured inlet and outlet flanges sealed with O-rings. It also included VFD drive options.

### Explosion Proof 3BA Regenerative Blower – Nickel Plated for the Pharmaceutical Industry

Electro-less nickel plating was used to create a corrosion-resistant blower (Teflon plating was an option). The customized blower also featured high temperature bearings and an explosion-proof motor. To facilitate sterilization, the entire blower was designed for Washdown Duty and Clean in Place (CiP).





## L-Series

### FEATURES:

- Oil level sight glass
- Vibration isolators
- Anti-suck-back valve
- Integral exhaust filters
- TEFC high efficiency tri-voltage motor (208-230/460V 50/60)
- Wire mesh inlet screen
- Gas ballast



### Oil-Lubricated Rotary Vane Vacuum Pumps

Airtech's L-Series rotary vane oil-flooded vacuum pump is a real workhorse with a simple design that ensures reliability and durability. The L-Series Pump has integral exhaust filters, vibration isolators, and composite vane material to promote longevity. It has an operating capacity range of 7-460 CFM while obtaining an end vacuum of 0.5 Torr.

## VCX/PCX Series

### FEATURES:

- Non-contact design
- Dry (oil-free) pumping chamber
- Air-cooled & direct driven
- Simple, modular construction
- Suitable for variable speed applications



### Rotary Claw Vacuum/Pressure Pumps

The Airtech positive displacement rotary claw design is air cooled, dry running and non-contact for a pump that is extremely reliable over a long service life. The non-contact design eliminates internal wear and maintenance, and its air-cooled operation means no water level checks, and no sealing or lubricating oil in the pumping chamber.

The claw shaped rotors inside the pump housing rotate in opposite directions, compressing the air and discharging through a silencer to the atmosphere. The anti-suck-back valve in the inlet flange prevents back flow into the pumping chamber. The two rotors are synchronized by gears that are oil lubricated for a long gear life.



## 3AV/3AVU/3AVH Series



### Liquid Ring Vacuum Pumps

Airtech/Speck Liquid Ring Vacuum Pumps are ideal for various applications that require continuous and quiet operation, compact design, and reduced power consumption. The single and two stage, variable discharge port design provides efficient operation from 1 through 1,100 CFM for vacuum levels up to 29"Hg. The impeller's unique design of slower spinning curved blades reduces tip speed enhancing the life expectancy of the pump.

#### FEATURES:

- **Standard pumps have cast iron housing, bronze or ductile iron impeller & PTFE flap valve**
- **Stainless Steel material available**
- **Designed for heavy duty applications**
- **Manufactured to ISO 9001 standards**
- **Single face mechanical seal arrangement is standard**

## 3AL Series



### Self-Contained Liquid Ring Vacuum Pumps

The 3AL is an ideal alternative to rotary vane vacuum pumps and older liquid ring technology. The 3AL arrives ready to use and requires no external water or oil supply. It has a self-contained internal water circuit, is oil-and maintenance-free, and is insensitive to dust and water vapor. The only thing it discharges is cool, clean air. With size capacities of 260 CFM, these pumps can achieve vacuum pressure of 28.5"Hg (35 torr). Optional air-jets can be utilized to achieve vacuum levels better than 29.5"Hg (10 torr).

#### FEATURES:

- **Oil-free**
- **Self Contained**
- **Maintenance-free**
- **Compact**
- **Quiet operation**
- **Maximum vacuum of 28.5 Hg**

- **Compact lightweight design**
- **Environmentally friendly, oil-free technology**
- **Operates quietly at a maximum 70 dB(A)**
- **Maintenance-free design**
- **Cooler running outboard bearings increase service life**
- **Built-in particulate filters and silencers**
- **Handles vacuum and/or pressure applications**
- **Ideal alternative to standard oil-sealed rotary vane pumps**



## HP Series



- High-efficiency cooling fan
- Hard-coated compression cylinder
- Anodized aluminum precision valve plates
- Low noise level
- Maintenance-free operation
- Optional vacuum restart

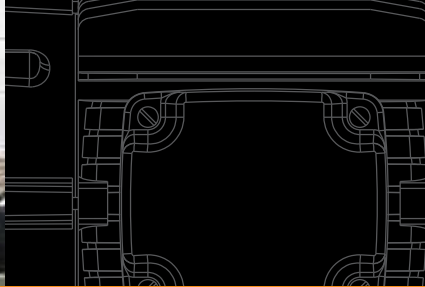
The compact and lightweight design of the Orion series dry rotary vane vacuum/pressure pumps adds to their ease of operation. They are an ideal alternative to standard oil-sealed rotary vane pumps. With built-in particulate filters and silencers, they can quickly be added to your existing system. The cooler-running outboard bearing increases service life. Dry rotary vane pumps eliminate the need for oil, are virtually maintenance free and run quietly at a maximum of 70 dB(A). Orion pumps operate at a range of 5.5-150 CFM and can achieve an end vacuum of 27"Hg and pressure to 14 PSIG.

Airtech Dry Piston Vacuum Pumps and Air Compressors are ideal products for the medical, instrumentation, calibration and portable equipment OEM markets. Their lightweight compact design and quiet operation makes them the first choice for equipment operating near populated areas.

**Airtech warehouses most brands of vacuum pump accessories and spare parts. Our vast inventory of components are in stock at all locations throughout the USA.**







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## Airtech Systems

### Rotary Vane Vacuum Systems

Single stage, oil-flooded vacuum systems have been a staple in many of the above-mentioned applications and industries for over half a century. These systems are designed in various configurations to save space: Vertical or Horizontal Tank Mounted or Expandable Stack/Base Mounted. Years and years of reliability and low maintenance make these systems a wise and economical choice.



**Airtech Systems** are designed and built to meet each customer's specific needs. Multiplex systems provide an economical advantage with smaller, lower horsepower pumps that operate in a lead-lag sequence only as capacity requires. A built-in backup allows for continued operation should one pump need servicing.

These systems can be used for applications in a range of industries: surgical, dental, laboratory, environmental, food packaging and many others.

### 3AL Self-Contained Recirculating Liquid Ring Vacuum System

Liquid ring technology has been the most reliable vacuum source for more than 70 years. Airtech designed the 3AL to be environmentally friendly with a unique water recirculation system and maintenance-free operation. Air cooled pumping systems are commonly used in the medical, industrial, and food processing industries. The 3AL is an excellent alternative to oil-flooded pumps that require maintenance scheduling, dry-vane pumps that cannot handle water vapor or carryover, or non-contact pumps that must be protected from particulates. All 3AL systems are designed in Simplex to Multiplex configurations and can either be tank mounted or stack/base mounted as shown here.



### Non-Contact Rotary Claw Vacuum or Pressure Systems - VCX/PCX

This Quadruplex Medical Vacuum System (NFPA 99C Compliant) was developed for a hospital that wanted minimal maintenance and the most advanced vacuum technology available. The non-contact, dry rotary claw design features a vacuum system for surgical, waste anesthetic gas disposal (WAGD), and laboratory and industrial applications. The systems come complete with a touch-screen control panel, variable speed drives to economically control the speed of the pumps and lower energy consumption, and a fully-automated PC controller that interface with the Building Automation Systems (BAS).



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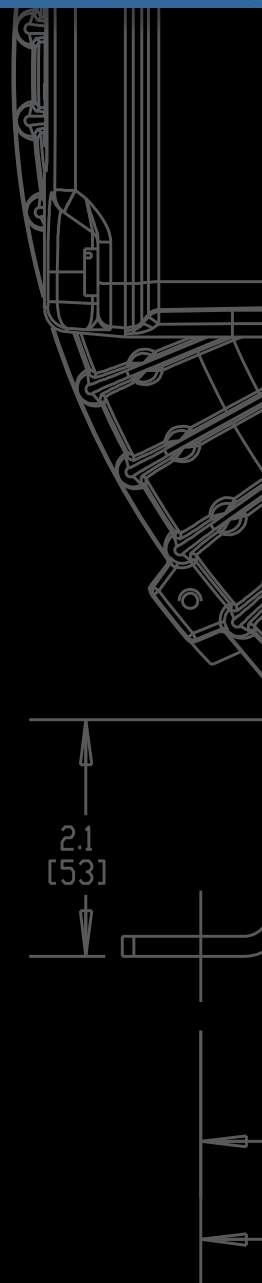
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