

**AIRMAC**



Premium quality blower packages through innovative design and superior construction.

## **Q Series Blower Packages**



**Air Mac**

# AIRMAC

## Q SERIES BLOWER PACKAGES

Q Series rotary lobe blower packages offer flows to 10,000 CFM, vacuum to 16" HG and pressures to 20 PSIG.

Blower selection is made using computer modeling software carefully considering bearing life, % of maximum pressure, blower speed, temperature rise and noise level. Multiple impeller styles and profiles are available to choose from in the Gardner Denver rotary lobe product range.



### Impeller Designs



**Two - lobe Straight**



**Tri-lobe Helical**



**Helical Screw**



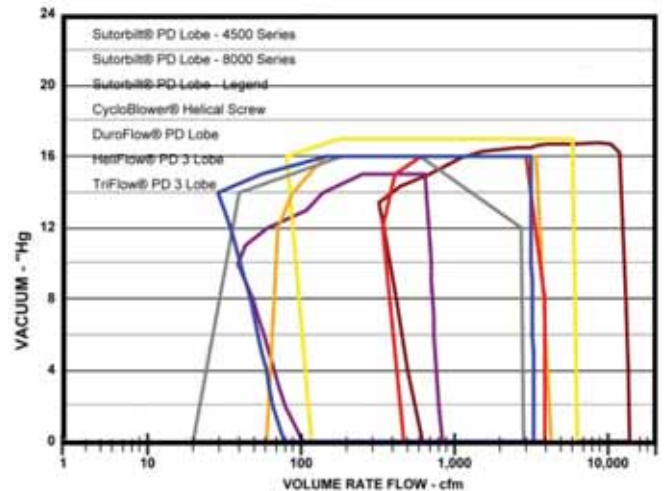
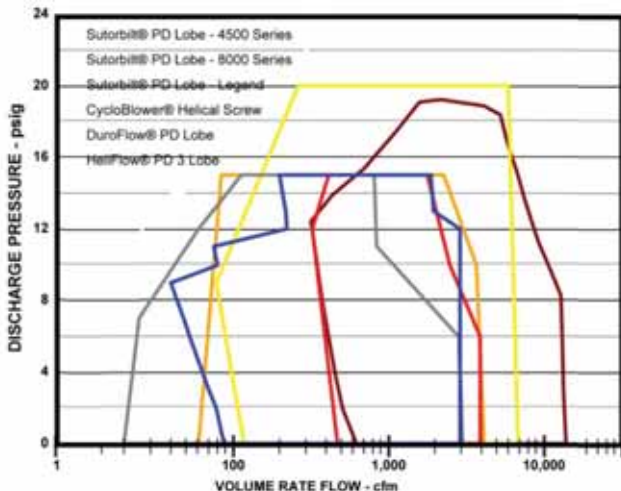
**Sutorbilt Legend**

- Sutorbilt Legend PD blowers are capable of reliably handling continuous loads
- Alloy steel timing gears assures non-slip timing under the most strenuous conditions
- Gear and bearing lubrication provides superior blower life
- High strength drive shaft provides greater blower durability and installation flexibility
- High strength cylinder with heat dissipating fins for reduced noise and vibration
- High temperature seals provide leak-free operation in severe-duty applications
- Available with Dual Splash Lubrication (DSL) and mechanical seals for gas applications

- HeliFlow PD blowers feature a unique and innovative impeller design
- Solid helical tri-lobe rotors with Helical alloy timing gears
- Engineered for lower pulsations and lower noise
- Oversized spherical roller bearings provide superior overhung load capability
- High strength cylinder with heat dissipating fins for reduced noise and vibration
- Piston Ring air seals provide leak-free operation in severe-duty applications
- Dual Splash Lubrication (DSL) for reduced service intervals



**HeliFlow**



## Q SERIES BLOWER PACKAGES

### Integral Enclosure

- Up to 20 dBA noise reduction.
- Suitable for installation outdoors.
- Integral to blower package (No assembly required)
- Powder coated 16 gauge metal panels
- Ample forced air ventilation system
- Hinged doors and lift off panels for easy service access

### Performance

- All inlet and discharge losses are factored into package performance calculations; CFM is stated at the discharge.
- Motor nameplate HP is not exceeded even at relief valve settings.
- Drives are designed for maximum life and minimum bearing load, with a service factor of 1.4 for belt drive and 2.0 for direct.
- All packages are tested at design and relief valve conditions. Readings are recorded on a Test Data Report.



**Q-408-20**

Powder coated 16 gauge sheet metal panels are mounted to a structural steel frame that encapsulates and protects the entire blower package. Panels are lined with 1.5" or 2" thick acoustic material that absorbs and dissipates noise energy. Panel edges are trimmed with a neoprene bulb gasket that tightly seals against the frame virtually eliminating "noise leaks"

Quarter turn compression latches are used on access panels which allows quick easy service of the routine service items. These panels are either "lift off" or hinged based on their weight. Other panel mounting methods are used depending on the panel location as well.

A forced air cooling fan is sized to provide ample cooling of the enclosure so the interior temperature of the enclosure stays within a maximum 15 degrees of the outside temperature at design conditions. Ventilation ducts eliminate line of site openings to dramatically reduce emanated noise.



**Forced Air Cooling**



**Quarter Turn Compression Latch**



**Easy Filter Access**



**Q-7028-200 Doors Off**  
*(Lift off hinges)*



**Q-7028-200 Doors Open**

*Superior noise levels are achieved through a combination of design elements. Proper blower selection, premium quality silencers, and sound reduction enclosure deliver a very quiet package.*



**"Lift Off" Panels**

#### **Standard Equipment**

- Positive displacement rotary blower
- Synthetic lubricant fill and level gauge
- Drive motor 208-230-460/3/60 1.15 SF ODP, EPACT
- V-Belt drive or Direct drive coupling
- Totally enclosed guard
- Oversized inlet silencer filter combination
- Full flow relief valve Pressure or Vacuum
- Gauge, Pressure or Vacuum, SS, liquid filled
- Discharge silencer, chambered reactive/absorptive
- Flexible connector between blower & silencer
- Structural rigid steel mounting base
- Drawings, instruction & operating manuals
- Integral acoustic enclosure

#### **Options**

- Automatic Belt Tensioner
- TEFC, IP-55 drive motor
- Discharge check Valve
- Air filter maintenance gauge
- Premium efficiency motor
- Weighted relief valve
- Temperature gauge
- IEEE-841 motor
- Additional Flex connector
- High air temperature switch
- 380/3/50 & 575/3/60 voltages
- VFD variable frequency drive
- Across the line motor starter
- Custom paint colors



Airmac, founded on the principle of offering superior blower packages, has a history of innovation and excellence that sets standards for the industry. For twenty years Unimac LP has supplied blower packages on an international scope, with installations in the Middle East, Central and South America, Indonesia and the United States.

Our 16,000 sq. ft. shop is located on over an acre with an overhead crane, welding shop, metal-cutting saws and paint booth. A 600-amp test stand allows full load testing up to 250 HP and a VFD drive allows testing with 50 Hz power, common for international voltages.

Products are designed using Autodesk INVENTOR 2012, and manufactured in house, adhering to standardized quality control procedures. Critical steps in the fabrication process such as cutting, welding, piping, wiring and painting are performed by fabricator-welders, mechanics and technicians experienced in their craft with a proven track record of success in producing quality equipment. The end result is a consistent level of high quality that ships on time and performs as expected.

Pre-designed packages range from bare bones “Base Mounted” to “Quiet Enclosed” for maximum noise attenuation. By standardizing our designs we can streamline the whole manufacturing process, providing an excellent value with faster delivery. Our products incorporate innovative design concepts with added features to improve reliability, extend useful life, and make routine service easier. Attention to detail and an exceptional level of construction quality are evident throughout our products.

Sizes from 1 to 27,000 CFM • Pressures to 40 PSI • Vacuum to 27" Hg • Combined Pressure-Vacuum



Base Mounted



Table Top



Clam Shell



Quiet Enclosed



Gas Booster

12411 Astoria Blvd,  
Houston TX 77089  
281-922-5800

8901 Directors Row  
Dallas TX 75247  
866-424-7622

81104 SE 59th  
Oklahoma City, OK 73129  
405-632-2510