Wastewater Treatment Solutions

Complete Packages and Custom Designs

www.gasho.org
Blower systems are used at multiple stages in the treatment of wastewater

Blowers are used to pump air through wastewater to enhance the aerobic digestion of organics, providing a way of controlling the BOD (biological oxygen demand) involved in the process. Blowers are also used in the basic movement of wastewater and sludge through the treatment system, as well as controlling odors and digester gases.

Gasho, Inc. – The Leader in Blower and Vacuum Solutions

Gasho, Inc. is the source for custom packaged solutions including system evaluation, design assistance, installation, replacement parts, and on-site service. Our team of dedicated professionals can also assist you in defining specifications and technical drawing needs when developing a request for a quote.

We specialize in the fabrication of reliable standard packages as well as custom blower and vacuum packages to suit your particular needs. Unique applications that require special attention and an inventive approach are our specialty. We offer complete package solutions using a variety of technologies, including regenerative blowers, positive displacement blowers, and rotary claw vacuum pumps and compressors. We also offer a wide range of noise and weather protection enclosures.
AMETEK Technical & Industrial Products’ ROTRON brand has long been a world leader in regenerative blower technologies, bringing regenerative advantages to a new level, providing quiet, maintenance-free, oil-free operation.

### Industrial / Chemical Processing Blowers

Our industrial DR (Domestic Regenerative) blowers include: rugged cast aluminum housing, cover, impeller, and muffler tower, removable cast iron flanges bolted to a sheet of metal manifold, TEFC motors on single-ended models, ODP motors on all double ended models, carbon steel shaft and zinc plated hardware, and permanently sealed motor bearings for 20,000-25,000 hours of life.

Our CP (Chemical Processing Regenerative) blowers include: Chem-Tough(TM) surface conversion corrosion resistant treatment for aluminum casting, Teflon® lip seal in a stainless steel case standard for leakage containment to 25 cc/min or less, Chemical Duty motors with 303 stainless steel motor shafts, stainless steel hardware throughout, and nickel plated flanges and muffler retainers.

### Environmental / Chemical Processing Blowers

**ROTRON®**

Our EN (Environmental Regenerative) blowers are designed the same as the DR blowers, except added features include: heavy duty cast aluminum manifold, our spark resistant housing cover, impeller, muffler tower and manifold are vacuum impregnated, Teflon® lip seal in a stainless steel case standard for leakage containment to 25 cc/min or less, explosion-proof motors standard and available in a variety of world voltages, all metal-to-metal surfaces are sealed with RTV sealant, and various UL explosion-proof listings.

Environmental (EN) regenerative blowers are also available in our Chemical Processing (CP) configuration: Chem-Tough(TM) surface conversion corrosion resistant treatment for all castings, Teflon® lip seal in a stainless steel case standard for leakage containment to 25 cc/min or less, stainless steel hardware throughout, and nickel plated flanges and muffler retainers.
Competitor® Rotary Positive Displacement Blowers

**Competitor® Plus™ and Competitor® SL™**

- Timed with precision helical gears, keyed to the rotor shafts
- Include double-row ball bearings at the gear end
- Rotors with integral shafts
- Reduced noise versions available with tri-lobe rotors
- Rated up to 15 PSIG discharge pressure or 16” Hg dry vacuum
- Bi-directional rotation
- Competitor® SL™ has splash lubrication at both gear end and drive end

Competitor Plus and Competitor SL blowers are designed to be interchangeable with equivalent models of competing manufacturers.

**PD Plus® High-Pressure Industrial Blowers**

- Known for quality, dependability and outstanding performance
- Models ranging from 3.25” to 12” gear diameter and 2.5” to 48” rotor length
- Standard construction materials: cast iron housing, end plates and port fitting with ductile iron rotors and shafts (special materials offered)
- Single and double envelope gas service available with mechanical seals
Qx™ Rotary Positive Displacement Blowers

- One of the industry's quietest blowers
- High efficiency at high pressure and vacuum
- Bi-directional rotation
- Timed with precision helical gears, keyed to the rotor shafts
- Includes double ball bearing on timing gear end for additional strength and single roller bearing on the drive shaft end of the machine
- L10 bearing life of up to 200,000 hours
- Tri-lobe rotors offer reduced pulsation and lower noise levels
- Oil lubrication on both ends with easy to view sight glasses allowing quick maintenance
- Features larger shaft diameter compared to competing manufacturers

Equalizer® Rotary Positive Displacement Blowers

Equalizer® RM and Equalizer® DF

- Compact design
- Available in popular 4.5” and 6” gear diameters
- Bi-directional rotation
- Timed with precision helical gears, keyed to the rotor shafts
- One piece housing
- Rotors with integral shafts
- Flow configuration is field convertible from horizontal to vertical

Equalizer RM and DF blowers are designed to be interchangeable with equivalent models of competing manufacturers.
The Centurion Series of cast iron blowers and exhauster are precision manufactured to the highest industry standards. Each unit is custom engineered to meet your individual performance requirements, assuring trouble free operation 24 hours a day, 365 days a year.

- Capacities from 100 to 12,000 CFM
- Pressures to 15 PSIG; Vacuums to 15” HG
- Aerodynamic cast aluminum impellers
- Cast iron, vertically split modular construction
- Precision machined AISI 1045 steel shaft
- Outboard mounted four bearing design
- Rotating assembly statically and dynamically balanced
- Labyrinth or Carbon Ring (with Purge Option) seals
- Grease or oil lubrication
Product Lines

Compression Claw Vacuum Pumps

We offer compression claw vacuum pumps that are designed with high efficiency, low maintenance technology featuring integrated cooling without additional cooling medium.

Venturi Aerator

A compact Venturi aspirator is used to draw air, oxygen, or both, and mix it into the fluid that passes through it. Greater efficiency and effectiveness in delivering oxygen to the process is achieved by combining injection and mixing in one step. Key benefits include:

- System maintenance is simple and minimal since access to submerged equipment is not required.
- No heat is added to the process.
- Enhanced separation of solids.
- Oxidation of H2S.
Depend on Gasho…

A family owned business since 1982, Gasho, Inc. has been an innovator delivering value added solutions for your industrial applications requiring vacuum pumps and blower equipment. Whether it is sales, service, repairs or rental equipment, Gasho, Inc. is your partner. If you are an OEM, contractor, distributor or end user, you can trust in Gasho’s commitment of quality service, equipment and custom packages, delivered within your budget.

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