



BIOGAS BLOWER AND COMPRESSOR PACKAGES

THE COMPANY

Applied Compression offers North America's largest selection of low, medium and high-pressure compressor packages for corrosive biogas applications. Our biogas compressor packages are designed specifically for gas mixtures containing acidic carbon dioxide and hydrogen sulphide and are manufactured using stainless steel piping, coolers and pressure vessels.

We offer North American packaging expertise, combined with the experience of internationally recognized compressor and blower manufacturer's including LeRoi, Mapro, Fornovogas and Blackmer.

These packages are designed and fabricated right here in North America ensuring compliance with local code requirements including UL, CSA, ASME and OSHA.

Our shop has Class A welding certification, a CSAZ299.3 quality assurance program and ISNet safety compliance.

Biogas plant engineers and constructors recognize the benefits of purchasing fully packaged compression system from a company with two generations of compressor packaging experience.

Benefits that include:

- Product Range:** We offer North America's widest range of biogas/digester gas compressor packages and blowers.
- Reduced Construction Costs:** Our shop costs are much lower than those of field construction.
- Single Source Responsibility:** One source for all the major components, ensuring component compatibility and process functionality throughout the entire system.
- Reduced Lead Times:** Many of the packages that we offer have been pre-designed for quick turnarounds.
- Flexible Design:** Our flexible modular design allows us to quickly and economically plan and fabricate a compressor package to meet individual customer specifications and industry specific applications.
- Application Experience:** Our management has been involved in the design and fabrication of specialized compressor packages since 1977 and we have completed projects throughout the world.
- CADD Design:** We utilize a Computer Aided Design and Drafting (CADD) system so we can provide you with a detailed look at your compressor package before it's manufactured.
- Detailed Parts & Operating Manuals:** Each compressor package manufactured by us comes with a set of in-depth parts and operating manuals so you can clearly understand the operation and maintenance requirements of the equipment.
- Quality Control Documentation:** On completion, you are provided with detailed quality control documentation including material test reports (MTRs), hydro-test reports, x-ray certificates, welding qualifications, weld mapping, ASME U1A forms etc., ensuring safe equipment operation for years to come.
- Recommended Spare Parts Lists:** Once the package is completed, we provide a detailed recommendation on which spare parts should be maintained in stock at the plant.
- Testing:** Whenever possible, each compressor package undergoes a mechanical run test and detailed inspection process prior to shipping.
- Shipping Logistics:** Whether you need a package to be shipped within Canada, across North America or overseas we can assist with final shipping arrangements to your site.

LOW PRESSURE BIOGAS BLOWER PACKAGES

At Applied Compression we recognize that in many cases, the initial capital cost of the equipment will often determine the economic viability of the project. With this in mind, we have developed a complete range of blower packages for pressures up to approximately 15 PSIG (1 Bar G).

We offer side-channel, centrifugal and rotary lobe blower options for biogas applications.

We can provide expert assistance in selecting the right blower, the right options and the right accessories for your application.



INTERMEDIATE PRESSURE BIOGAS COMPRESSOR PACKAGES

Applied Compression is the authorized North American packager of Mapro rotary vane compressors. These compressors are ideally suited for pressures up to 36 PSIG (2.5 Bar G) for air-cooled units and 58 PSIG (4 Bar G) for water-cooled compressors.

Applications include digester mixing/recirculation, fuel gas boosting, gas transfer and landfill gas extraction.

Mapro rotary vane compressors, are designed to provide years of continuous service in harsh corrosive biogas applications.

Wear is limited to vanes, bearings and shaft seals resulting in reduced maintenance costs and with fewer moving parts, Mapro rotary vane compressors are easily field repairable.

Each compressor supplied by us includes a comprehensive set of operating manuals and data sheets.

Every compressor package is completely assembled and tested under load to make sure it leaves our plant in perfect operating condition.



MEDIUM PRESSURE BIOGAS COMPRESSOR PACKAGES

Our medium pressure biogas compressor packages utilize field proven brands of rotary screw, rotary vane and reciprocating gas compressors.

These packages are designed specifically for the material and electrical requirements that are related to tough biogas applications.

This modular design makes it possible for us to find the optimum solution for each specific case, both from a technical and economical point of view.

These packages are available with a locally mounted and pre-wired control panel or with the end devices wired to a junction box for control by a main plant PLC.

Also available are variable speed drive systems that evenly match gas compression volumes to gas production rates. In periods of low demand, the VFD reduces the gas flow rate by reducing the drive speed. This reduction in speed saves power and trims operating costs.

Our goal is to provide superior, high reliability compressor packages that translate into lower operating cost and increased profits for your company.



HIGH PRESSURE RNG COMPRESSOR PACKAGES

Applied Compression offers a complete range of pre-engineered high-pressure RNG (Renewable Natural Gas) compressors for applications requiring pressures up to 5000 PSIG, as well as integrated drying and storage solutions.

Our RNG packages range in size from 5 to 750 HP (3.7 to 560 kW) and offer a clean, simple design that allows easy access for normal maintenance.

These compressor packages are available as a simple skid-mounted unit or housed in a weatherproof enclosure or walk-in style building for cold climate locations.



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