

Company Overview

Hy-Bon Engineering is a global industry leader since 1952 and provides leading edge design and fabrication of customized compressor packages for handling low pressure gas streams. Regardless of the application—whether for biogas from wastewater facilities, digester tanks, landfills, breweries, or gas from oil-field stock tanks, casinghead gas and field gas collection—Hy-Bon can design the package required. Hy-Bon also designs and manufactures custom CNG packages for municipal applications.

Hy-Bon units currently operate in over 20 countries—ranging from offshore to desert service. Our units are employed to capture diverse gas streams ranging from methane, hydrogen sulfide and carbon dioxide to extremely complex landfill and petrochemical gases.

Hy-Bon is your source for compressor ...

- Sales
- Rentals
- Exchange compressors
- Parts
- Repair/Refurbishing

Applications include:

- Vapor recovery
- Field gas boosters
- Field gas gathering
- Wellhead depletion
- Casinghead gas
- Gas lift
- Flare gas elimination
- Process compression
- Oil production enhancement
- Gas regulations compliance

SERVICE IS OUR SPECIALTY

Your global source for customized compressor packages handling low pressure gas streams

Contact Us

8:00 a.m. - 5:00 p.m. Central Time

Phone: 432.697.2292
Toll-Free: 800.725.1878
Fax: 432.697.2310

Mailing Address:

P.O. Box 4185
Midland, TX 79704

Physical Address:

2404 Commerce Drive
Midland, TX 79703

www.hy-bon.com



ENGINEERING COMPANY, INC.

HY-BON®

ENGINEERING COMPANY, INC.

Biogas Recovery

SETTING A NEW STANDARD
IN CUSTOM COMPRESSION

www.hy-bon.com

© 2005 Hy-Bon Engineering Company, Inc.

Waste Water Compression

Hy-Bon is a leader in wastewater gas recovery, offering standard or custom designed packages to meet highly detailed customer specifications. Our engineers draw upon over 50 years' experience with multiple industries to address the most challenging gas streams, providing integrated packages for wastewater treatment facilities across the United States and worldwide.



Hy-Bon was instrumental in the development of a specialized compressor package for the capture and compression of highly corrosive vapors, such as those encountered in this application. These packages typically use a rotary vane compressor to take these vapors from a pressure of 2-3" W.C. to 40 psig or less discharge pressure. Compressed vapors are sent to one of three systems where they are utilized for a beneficial purpose. Typically, digester gas



is utilized for one of the following:

- 1) cogeneration;
- 2) steam generation;
- 3) sewage sludge mixing or churning.

Landfill Compression

Landfill operators across the globe are economically collecting gas produced by the landfill (LFG) during the decomposition of organic matter in the landfill. In many countries, including the U.S., this gas may no longer be vented to the atmosphere.



Typically the LFG collection system consists of wells bored into the closed sections of the landfill to relieve the LFG pressure and to flow gas to a manifolded system. Hy-Bon's compressor systems



collect this gas from the manifold and compress it to be used for any of several beneficial uses.

Landfill gas may be utilized in its "raw" form to

power natural gas burning engine-driven generator packages. These systems create electricity which can supplement onsite electrical needs or be sold into the power grid. Other landfill gas systems are in place in which the operator actually cleans up the LFG, through membrane systems, chemical systems or pressure-swing absorption systems, to pipeline grade quality.

Brewery & Food Processing

Hy-Bon Engineering has extensive experience capturing methane emissions from brewery and food processing operations. In breweries, methane produced during the fermentation process is captured and directed to electric generators, which then use the gas to provide a significant percentage of the brewery's power needs. Hy-Bon customers include Miller Brewing, Modelo, Corona, and Tecate.



Food processing applications include a large range of scenarios whereby methane gas is produced from decomposing materials. In a peach canning factory in California, a Hy-Bon vapor recovery system captures methane gas from decomposing peach skins. Our units capture methane gas from large storage containers in a chicken rendering plant in Alabama. As more companies investigate ways to reduce costs utilizing their waste streams and byproducts, the applications become as diverse as the food processing industry itself. In most cases, these previously vented gas streams are used to provide heat or electricity for the plant operations—insuring emission compliance and simultaneously reducing plant costs.

