

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 gas from oilfield stock tanks, casinghead gas, field gas collection, or biogas from wastewater facilities, digester tanks, landfills or breweries — 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

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ENGINEERING COMPANY, INC.

**SETTING
A NEW
STANDARD
IN CUSTOM
COMPRESSION**



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Vapor Recovery

Over 50 years ago Hy-Bon designed the first small compressor package specifically designed to capture natural gas emissions with high levels of hydrogen sulfide from oilfield stock tanks. Hy-Bon has since evolved into a global leader in this market, with units currently operating in over 20 countries—from offshore to desert service.

As a packager of a wide range of compressor styles, we are able to focus solely on the gas stream in question, and design the most cost-effective technical solution for our customer's requirements. For vapor recovery applications, we typically recommend rotary vane, rotary screw or jet pump compressors.

Our experience in handling gas streams with extremely high levels of H₂S, CO₂ and other corrosive elements helps our customers meet these challenges.

For small applications, Hy-Bon maintains an inventory of standard packages for reduced cost and quick customer turnaround. Our patented Vapor Jet System is a simple, low cost technology for the recovery of gas vapors from oil production facilities' storage tanks. The system's low capital and



operating costs gives the operator the ability to make a profit at low vapor volumes (<60 mscfd).

For larger, more complex jobs, 3-D modeling software is utilized so our customers can drop our package directly into their facility design software – dramatically reducing project lead times. Whether a cost-effective standard package or a highly sophisticated unit for the international or offshore market, Hy-Bon's experience is second to none.



Casinghead Pressure Reduction Technology

To wrench additional dollars from existing production, producers are turning to the use of low horsepower compression to boost oil production from mature fields. Hy-Bon Engineering is a global leader in this technology, with hundreds of compressor packages successfully operating in casinghead reduction applications. Based on the gas stream, pressure and volume, Hy-Bon packages reciprocating, rotary screw, rotary vane and liquid ring compressor systems for reducing annulus pressure. In addition to building new units for our customers, Hy-Bon also maintains over 200 units in our rental fleet



specifically targeted for this application.

The concept behind casinghead reduction is straightforward. When wellhead pressure is added (ie flowline or 1st stage separator), pressure on the formation is significantly impacted. The well pressures seen at the formation level are further complicated by fluctuating wellhead pressures from the pipeline. Relieving this pressure in the casinghead reduces the weight (pressure) on the formation, allowing oil or gas to more easily flow from the formation into the well bore. Reducing the pressure on the formation also dramatically reduces gas lock problems. Each formation responds differently, but in many cases production was doubled or even tripled in



mature fields.

Packages can be ordered either trailer or skid mounted. Our designs focus on safety and ease of operation and maintenance, with automated start / stop functions, easy-to-read gauges and indicator lights, integrated oil supply, and large scrubbers with automated liquid transfer systems. Hy-Bon offers both electric motor and engine drive models, with a variety of options available to fit your application.



Field Gas Gathering Booster System

It's evident that sales and distribution line pressures are going up constantly. Recognizing that the flowing pressure of a well typically declines over its lifetime—it's easy to see the need for compression on either individual wells or over a series of wells. If you can't get the gas through the pipeline, you can't get paid for it.

Hy-Bon Engineering's compressors are designed to pull gas through a manifold system and consolidate (normally at a higher pressure) into one homogenous gas stream. Booster compressors are used to take gas at one pressure and "boost" it to a higher pressure. This boosting requirement may be due to a higher line pressure, or a downstream process that requires high-

er pressure, or as the first stage of a multi-stage gas compression system. Based on the gas stream, pressure and volume, Hy-Bon packages reciprocating, rotary screw, rotary vane and liquid ring compressor systems for field gas gathering and boosting.

All of Hy-Bon's field compressor packages can be configured to work with artificial lift systems. The automatic functionality of the units allows automatic restarts, even with natural gas engines. We offer either trailer or skid mounted units, both electric motor and engine drive models, with a variety of options available to fit your application.

