

TESCORP BGB-2 SERIES GAS BOOSTER UNIT

Two-stage Reciprocating Compressor
3 to 50 Horsepower; 0 to 150 PSIG Inlet Pressure
Maximum Discharge Pressure 600 PSIG

Price Available Upon Request.

See application graph for correct sizing or consult TESCORP engineering.



The TESCORP "BGB-2" Series is a completely self-contained compression system for applications for wet, saturated and corrosive gas stream, flare gas recovery, or small flow, medium pressure process gas applications. Constructed as a compact and fully-contained system, it is constructed with a Blackmer air-cooled two-stage, pressure-lubricated, reciprocating gas compressor and TESCORP fully automated unit technology and components. The BGB-2 Gas Booster Unit is designed for applications in field gas, refinery, or process applications where difficult, saturated, or corrosive gas requirements exist.

The unit offers the following design and optional features:

Two-stage reciprocating compressor with:

- » Multi-stage, lubricated cylinders
- » Pressure lubricated power-frame compressor
- » Single or multiple distance piece(s) and seal assembly(s)

Premium efficiency electric motor drive with:

- » TEFC enclosure, 460 VAC/3Phase/60 Hertz, NEMA "B" torque, 1.15 service factor

Suction and inter-stage scrubbers are constructed per the following:

- » Designed, constructed, stamped and National Board Certified per ASME Section VIII
- » 1/8" corrosion allowance
- » Condensate level controls, gauges, pump rated for flow and pressure

Piping materials, welding procedures, design and construction are per the following:

- » ANSI B31.3 latest edition with 10% X-Ray
- » All gas transmission piping 2" and smaller shall be either socket weld, NPT, or tubing

Vapor recovery control panel is designed per NEC Class I, Division II, Class B,C, & D with:

- » TESCORP vapor recovery logic, controls and indicators
- » Linear flow control logic with proportional bypass valve
- » DCS communication logic

BGB-2 unit construction:

- » All electrical components and wiring per NEC Class I, Division II, Class B,C, & D
- » All rotating equipment is fully protected with non-sparking guards
- » All units receive a complete mechanical/control run test with documentation

Options:

- » Controls and panels per customer preference
- » Motor starters and/or VFD drives
- » 2 or 3 piece distance piece and seal assemblies available
- » Sour gas trim for compressor available to 8% H₂S