

TESCORP BVR-1 SERIES VAPOR RECOVERY UNIT

**Single-stage Reciprocating Compressor
3 to 50 Horsepower; 0 to 150 PSIG Inlet Pressure
Maximum Discharge Pressure 1-stage 300 PSIG**



The TESCOP “BVR-1” SERIES is a completely self-contained compression system for applications for stock tank vapor recovery, flare gas recovery, or small-flow, medium-pressure process gas applications. Constructed as a compact and fully-contained system with a Blackmer air-cooled, single-stage, pressure-lubricated, reciprocating gas compressor and TESCOP vapor recovery unit technology and components, the BVR-1 Vapor Recovery Unit is designed for applications in field gas or refinery process applications, where very saturated and/or corrosive gases must be processed.

The unit offers the following design and optional features:

Single-stage reciprocating compressor with:

- Two-stage, single-acting, air-cooled
- Pressure lubricated power-frame compressor
- Single distance piece and seal assembly
- Corrosive gas trim

Premium efficiency electric motor drive with:

- TEFC enclosure, 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

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

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

BVR-1 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:

- Motor starters and/or VFD drives
- 2 or 3 piece distance piece and seal assemblies available
- Sour gas trim for compressor available up to 8% H₂S

**Price available upon request.
Application graphs and drawings available separately.**