

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
Price Available Upon Request.*

The TESCORN "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, it is constructed with a Blackmer air-cooled, single-stage, pressure-lubricated, reciprocating gas compressor and TESCORN 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:

- » Single-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, 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:

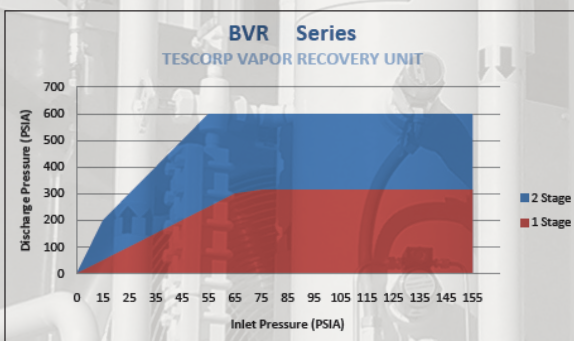
- » TESCORN vapor recovery logic, controls and indicators
- » Linear flow control logic with proportional bypass valve
- » DCS communication logic

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



**Contact TESCORN for exact compressor performance.*

