

TESCORP BVR-B SERIES

VAPOR RECOVERY & FLASH GAS UNIT

WHEN DEPENDABLE PERFORMANCE IS CRITICAL.

Single- or two-stage Reciprocating Gas Compressor



Discharge	25	50	75	100	125	150	200	250
0	64 (10)	53 (10)						
10	122 (10)	109 (15)	96 (15)	85 (15)				
20	180 (7.5)	166 (15)	153 (15)	140 (15)	128 (20)	116 (20)		
30		224 (10)	210 (15)	197 (20)	184 (20)	172 (20)	147 (25)	
40		283 (10)	269 (15)	255 (20)	241 (20)	228 (20)	203 (25)	178 (25)
50			327 (15)	313 (15)	299 (20)	285 (25)	259 (25)	234 (30)
75				461 (15)	446 (20)	431 (20)	403 (30)	375 (30)

Discharge	25	50	75	100	125	150	200	250
0	127 (15)	107 (15)						
10	236 (15)	214 (20)	193 (25)	173 (25)				
20	348 (10)	324 (20)	301 (25)	279 (30)	256 (30)	236 (30)		
30		436 (15)	411 (25)	388 (30)	366 (40)	344 (40)	302 (40)	
40		547 (15)	522 (25)	498 (30)	475 (40)	452 (40)	409 (50)	367 (50)
50			634 (20)	609 (30)	585 (40)	561 (40)	516 (50)	473 (50)
75				891 (20)	866 (30)	840 (40)	791 (50)	

Discharge	75	100	150	200	250	300	375	475
0	25 (5)	25 (7.5)	34 (7.5)	41 (10)	41 (10)			
10			42 (7.5)	59 (10)	58 (10)	57 (15)		
20				76 (15)	75 (15)	74 (15)	73 (15)	
30					93 (15)	92 (15)		
40						110 (15)		
50								

Discharge	75	100	150	200	250	300	350	400
0	54 (15)	53 (15)	52 (15)					
10			90 (20)	89 (20)	87 (20)			
20				127 (20)	125 (25)	124 (25)	122 (25)	121 (25)
30					163 (25)	162 (25)	160 (30)	159 (30)
40						200 (30)	199 (30)	197 (40)

Suction and Discharge pressures are PSIG.
 Tables read in MSCFD (Motor H.P.) and are based on a compressor speed of 740 RPM.
 Capacity and horsepower based on natural gas with an "N" value of 1.15 and a specific gravity of 1.54 at 70°F.

The TESCOP "BVR-B" Series is a completely self-contained compression system for applications for stock tank vapor and emissions recovery, or small flow medium pressure process gas applications. Constructed as a compact and fully-contained system, these units feature a Blackmer air-cooled one- or two-stage, pressure lubricated, reciprocating gas compressor and TESCOP vapor recovery unit technology and components. The BVR Vapor Recovery Units are designed and constructed for simplicity of installation, and ease of operation for the critical demands of the harsh oilfield environment.

The unit offers the following design and optional features:

Single or two stage reciprocating compressor with:

- Single & double 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, 460 VAC/3-Phase/60 Hertz

Suction and discharge 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 per the following:

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

Vapor Recovery Control Panel is designed per NEC Class I, Division II, Class B,C, & D with:

- TESCOP vapor recovery logic, controls and indicators
- Load/recycle flow control and logic

BVR-B 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:

- Sour or corrosive gas protections
- 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

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