

TESCORP CVR-1 SERIES VAPOR RECOVERY UNIT

Single-Stage Rotary Vane Compressor; 25 to 300 Horsepower

27" H_g Vacuum to 15 PSIG Inlet Pressure

Maximum Discharge Pressure 50 PSIG

Price Available Upon Request.



The TESCOP "CVR-1" SERIES is a completely self-contained compression system for applications for stock tank vapor recovery, flare gas recovery, or medium pressure process gas application. Constructed with a rugged rotary vane compressor and TESCOP vapor recovery technology and components, the CVR-1 is a complete and fully automated system for applications that require gas cooling, proportional capacity control, and sophisticated PLC driven control logic and communications.

The unit offers the following design features:

Single-stage rotary vane compressor with:

- » Liquid-cooled for continuous duty
- » Oil-lubricated compressor
- » Mechanical seal
- » Special vapor recovery heads for saturated gas applications

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:

- » Controls and panels per customer preference
- » Motor starters and/or VFD drives
- » DCS Communications Logic

Force feed lubrication system complete with:

- » Progressive flow type divider block lubricator, manifold, filter, and oil storage reservoir
- » Oil flow indicators, flow monitor, and controls

Premium efficiency electric motor drive with:

- » TEFC enclosure, NEMA "B" torque, 1.15 service factor
- » Inverter duty for application with "VFD" drive

CVR-1 unit construction:

- » All electrical components and wiring per NEC Class I, Division II, Class B,C, & D
- » Skid assembly shall conform to ASTM A-36 requirements
- » All rotating equipment is fully protected with non-sparking guards
- » All units receive a complete mechanical/control run test with documentation

Options:

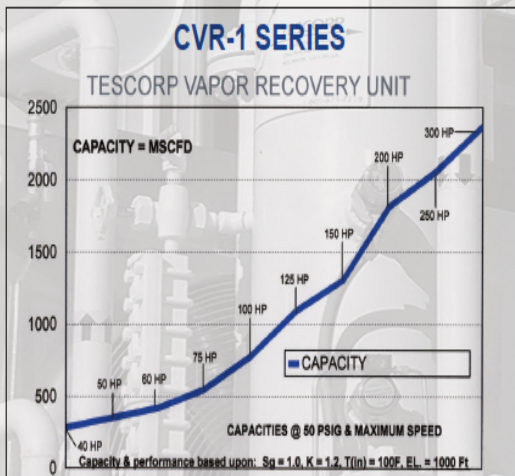
- » Sour or corrosive gas (NACE compliant)
- » Controls and panels per customer preference
- » Motor starters and/or VFD drives

Suction scrubber constructed per the following:

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

Heat exchanger assembly complete with the following:

- » Gas After-Cooler for 30°F at 100°F ambient approach, motor and manual louvers
- » Designed, constructed, stamped and National Board Certified per ASME Section VIII
- » Closed loop compressor jacket water cooling system for continuous 24/7 duty



Dimensions (inches) not binding. Subject to change without notice.

