

TESCORP CVR-1 SERIES VAPOR RECOVERY UNIT

Single-Stage Rotary Vane Compressor; 25 to 300 Horsepower

27" HgV Vacuum to 15 PSIG Inlet Pressure

Maximum Discharge Pressure 50 PSIG



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 and optional 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

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

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

CVR-1 unit construction:

- All electrical components and wiring per NEC Class I, Division II, Class B, C, & D
- Skid assembly conforms 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

Price available upon request.

Application graphs and drawings available separately.