

TESCORP CGB-2 SERIES GAS BOOSTER UNIT

WHEN DEPENDABLE PERFORMANCE IS CRITICAL.

2-Stage Rotary Vane Compressor
40 to 500 Horsepower
29" HgV Vacuum or 0-15 PSIG Inlet Pressure
Maximum Discharge Pressure 150 PSIG
Price Available Upon Request.

The TESCORP "CGB-2" SERIES is a completely self-contained, two-stage compression system for applications for wet, saturated, medium to high volume gas, flare gas recovery, or medium pressure process gas application. Constructed with a rugged rotary vane compressor, TESCORP vapor recovery technology and components; the CGB-2 is a complete and fully automated system for applications that require gas cooling, proportional capacity control, and sophisticated PLC driven control logic and communications.

Performance varies with inlet pressures. See application graph for correct sizing.

The unit offers the following design features:

Two-stage rotary vane compressor with:

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

- » Closed loop compressor jacket water cooling system for continuous 24/7 duty
- » Thermostatic control valve for complete temperature maintenance in varying temperatures

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

Piping materials, welding procedures, design and construction per the following:

- » ANSI B31.3 latest edition

Premium efficiency electric motor drive with:

- » TEFC enclosure, 460 VAC/3-Phase/60 Hertz, NEMA "B" torque, 1.15 service factor
- » Inverter duty for application with "VFD" drive

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

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

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

CGB-2 unit construction:

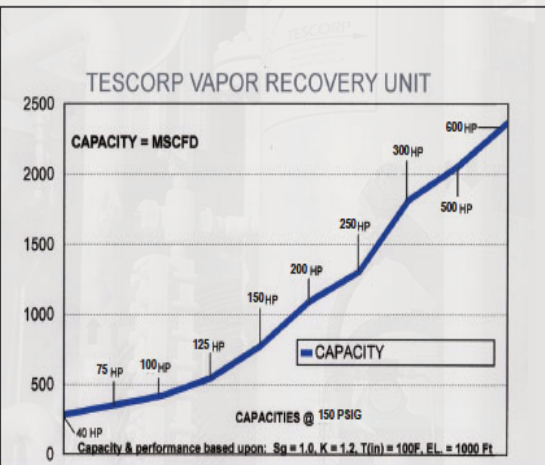
- » All electrical components and wiring per NEC Class I, Division II, Class B,C, & D
- » Skid assembly shall conform to ASTM A-36 requirements
- » All rotating equipment is fully protected with non-sparking guards
- » All units receive a complete mechanical/control run test with documentation

Heat exchanger assembly complete with the following:

- » Gas Inter-Cooler and After-Cooler are designed for 30°F approach at 100°F ambient complete with motor and manual louvers
- » Designed, constructed, stamped & National Board Certified per ASME Section VIII

Options:

- » Sour or corrosive gas protections
- » Controls and panels per customer preference
- » Motor starters and/or VFD drives



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

