

TESCORP CGB-1 SERIES GAS BOOSTER UNIT

Single-Stage Rotary Vane Compressor
25 to 300 Horsepower
Vacuum to 27" HgV or 0-50 PSIG Inlet Pressure
Maximum Discharge Pressure from 60 to 150 PSIG

Price Available Upon Request.

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

The TESCORP "CGB-1" SERIES is a completely self-contained single-stage compression system for applications for wet, saturated and corrosive gas stream, flare gas recovery, or medium pressure process gas application. Constructed with a rugged rotary vane compressor, TESCORP vapor recovery technology and components; the CGB-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

- » 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 are 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:

- » Controls and panels per customer preference
- » DCS Communications 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-1 unit construction:

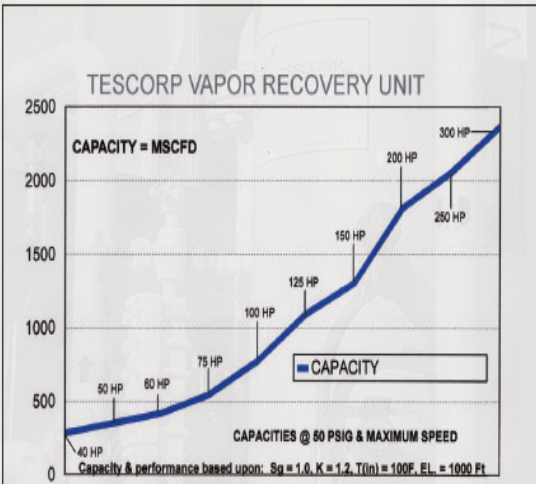
- » All electrical components and wiring per NEC Class I, Division II, Class B,C, & D
- » Skid assembly shall conform to ASTM A-36 requirements
- » All rotating equipment is fully protected with non-sparking guards
- » All units receive a complete mechanical/control run test with documentation

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

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.

