



LeROI Gas Compressor Skids

4 Complete Skids Available
Item # 7294

DATA SHEET

LeROI Screw Compressor Performance Program (Version:2.1.0.40) 8/29/2014

The following is "typical" for this compressor as it is set up currently:

*****GAS*****

Gas Name: Natural Gas
Mole Weight: 18.830

Specific Gravity: 0.650
Cp/Cv: 1.260

*****COMPRESSOR*****

Model: HGF12000
Oil Pump: 13gpm @3000rpm
JShaft K,in-lb/rad: 0.000E+0
Rotor Diameter,mm: 128
Maximum Pressure,psig: 350
Minimum Oil Flow,gpm: 8.0
Input Speed,rpm: 1780
Fan Present

Internal Ratio: High
WR²,lb-ft²: 1.4
Number of Versatrol Ports: 2
Maximum Power,hp: 125
Max. Discharge Temperature,F: 230
Tip Speed, m/sec: 18
Fan Power,hp: 0.8

*****DESIGN CONDITIONS*****

Elevation,ft: 0
Suction Temperature,F: 80
Suction Pressure,psig: 0.00
Pressure Drop Suction,psi: 0.5
Oil Specific Gravity: 0.90

Atmospheric Pressure,psi: 14.6
Discharge Temperature,F: 180
Discharge Pressure,psig: 125.00
Pressure Drop Discharge,psi: 5.0
Oil Specific Heat, Btu/lb/F: 0.48

*****DESIGN POINT PERFORMANCE*****

Power,hp: 37+/-5%
Flow,mscfd: 118
Flow,icfm: 89
Versatrol Ports Open: 0.0

Oil Heat Load,Btu/min: 1321
Oil Flow,gpm: 7.7
Oil Injection Temperature, F: 132
[Oil Flow < Min]

The tanks on these packages, serial numbers 4695X16,17,18,&19, are rated to 250 PSIG DESIGN pressure, thus the tanks are good only for about 10% less or around 225 PSIG. The compressors themselves are rated to 350 PSIG discharge pressure.

The flow rate depends on the inlet pressure – the higher the inlet pressure the higher the flow rate will be. They are belt driven at about motor speed now at 1780 RPM, but this can be

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changed if necessary. With a motor / starter change they can go to 50 HP (coolers only handle 50 HP maximum heat load).

*****NOTES*****

- Minimum oil viscosity is 15 centistokes at injection temperature*
- Higher viscosity oil may cause higher than predicted shaft power*
- Discharge temperatures between 230 F and 250 F are acceptable for certain applications. Consult the factory if this condition is required.*