

Phil
7.**Job Reference Information :**

Job Number :
 Job Reference :
 End User :
 Packager :
 Driver/Model :

the SSQ costs

6000⁰⁰ more
than a SSQ**Sizing Input Information :**

Ambient Temp : 100 F
 Location Elevation : 3500
 Gas Type Selection : Natural Gas
 Relative Humidity : 100.0
 Specific Gravity : 0.68
 k-value Cp/Cv : 1.244
 Suction gage pressure : 0 PSI
 Inlet Gas Temp : 80 F
 Discharge gage pressure : 110 PSI
 Design Flow Rate : .75 MMSCFD

750 MMSCF/day
 - 20% CO₂ deduct
 - 15% surge rate

Conditions used in sizing/rating the unit:

Suction PSIA 12.85
 Discharge PSIA 122.85
 Location Atmospheric Pressure 12.85
 Moisture Factor Multiplier 1.042

510 MSCF/day

Selected Frame :

Frame Selection : SSQG99B (4.6 VI)
 Design Rpm : 1800
 Min Rpm : 616
 Max Rpm : 2695
 Max Suction Pressure, PSIG 50
 Max Power allowed, BHP 240
 Driver type selection : Engine or V-Belt
 Unit is equipped with a Turn Valve, set at 95 %.

Rating/Sizing Results: (Note: This is a Flange-to-Flange Rating)

Discharge Temp, Degrees F	198
Oil Inlet Temp, Degrees F	180
Temperature RISE, Degrees Fahrenheit	18
REQUIRED Flow in INLET Cu Ft per Min.	644.4
RATED Flow in ICFM at op. RPM	644.4
Volumetric Efficiency at op. RPM	87.31
Adiabatic Efficiency at op. RPM	72.51
REQUIRED Flow in Millions of SCF/Day	0.750
RATED Flow in Millions of SCF/Day	0.750 MMSCFD
RATED Flow in SCFM	520.8
RATED FLOW, lb/min	28.08
RATED BHP at operating point	136.7 BHP
OIL FLOW CALCULATED, Gal/Min	62.0
OIL Cooler Heat Load, MMBTU/Hr	0.248
Internal Vol. Ratio ("VI")	4.61
Internal Comp. Ratio	6.69
Job Compression Ratio	9.56

NOTE! This unit has a frame-mounted oil pump

No warnings detected due to compressor operating conditions.

The "Use Compressibility" option is: OFF, Zs = 1.000, and Zd = 0.989.