```
Job Reference Information :
Job Number
Job Reference :
End User
Packager
Driver/Model :
Sizing Input Information:
Ambient Temp :
                             100 F
Location Elevation :
Gas Type Selection :
                             Natural Gas
Relative Humidity:
                             100.0
Specific Gravity:
                             0.75
k-value Cp/Cv :
                              1.226
Suction gage pressure :
                             5 PSI
Inlet Gas Temp :
                             80 F
Discharge gage pressure :
                             125 PSI
Design Flow Rate :
                             .5 MMSCFD
Conditions used in sizing/rating the unit:
Suction PSIA
Discharge PSIA
                                      139.67
Location Atmospheric Pressure
                                       14.67
Moisture Factor Multiplier
                                       1.027
Selected Frame:
Frame Selection :
                             SSPG99B (5.2 VI)
Design Rpm :
                               1010
Min Rpm :
                             673
                             2945
Max Rpm:
Max Suction Pressure, PSIG
Max Power allowed, BHP
                              180
Driver type selection :
                             Engine or V-Belt
Unit is equipped with a Turn Valve, set at 100 %.
Rating/Sizing Results: ( Note: This is a Flange-to-Flange Rating )
Discharge Temp, Degrees F
                                            191
Oil Inlet Temp, Degrees F
                                            180
Temperature RISE, Degrees Fahrenheit
                                             11
REQUIRED Flow in INLET Cu Ft per Min.
                                          276.6
RATED Flow in ICFM at op. RPM
                                          276.7
Volumetric Efficiency at op. RPM
                                          88.08
Adiabatic Efficiency at op. RPM
                                          73.36
REQUIRED Flow in Millions of SCF/Day
                                          0.500
  RATED Flow in Millions of SCF/Day
                                                  0.500 MMSCFD
RATED Flow in SCFM
                                          347.3
                                          20.33
RATED FLOW, lb/min
  RATED BHP at operating point
                                                   76.2 BHP
OIL FLOW CALCULATED, Gal/Min
                                           54.8
OIL Cooler Heat Load, MMBTU/Hr
                                          0.137
Internal Vol. Ratio ("VI")
                                           5.17
Internal Comp. Ratio
                                           7.49
Job Compression Ratio
                                           7.10
NOTE! This unit has a frame-mounted oil pump
but the oil flow around the pump in the BYPASS is GREATER than
the pump rate. The BYPASS flow is the oil flow rate used above.
```

No warnings detected due to compressor operating conditions. The "Use Compressibility" option is: OFF, Zs = 1.000, and Zd = 0.984.