AMBIENT CONDITIONS:

Gas: Air
Relative Humidity: 80%
Molecular Weight: 28.377
k-Value (ratio of specific heats): 1.395
Specific Gravity: 0.980
 Ambient Temperature: 100 deg F
Ambient Pressure: 14.32 PSIA
Elevation: 700 Feet

INPUT CONDITIONS:

Actual Volume: 420 ICFM
Standard Volume: 361 SCFM
Mass/Weight Flow: 28 lb/min
System Inlet Pressure: 14.32 PSIA
Inlet Pressure Drop: 0.3 PSI
Blower Inlet Pressure: 14.02 PSIA
System Discharge Pressure: 14.0 PSIG
Discharge Pressure Drop: 0.2 PSI
Blower Discharge Pressure: 28.52 PSIA
Inlet Temperature: 100 deg F

STANDARD CONDITIONS:

Pressure: 14.7 PSIA
Temperature: 68 deg F
Relative Humidity: 36 %

BLOWER PERFORMANCE:

Blower Model: 406 RootsFlo
Blower Operating Speed: 3,550 RPM (89% of maximum)
Blower Shaft Horsepower: 38.7 HP
Differential Pressure across Blower: 14.50 PSI (97% of maximum)
Temperature Rise across Blower: 232 deg. F (84% of maximum)
Blower Discharge Temperature: 332 deg. F
Estimated Noise @ 1 Meter: 102.9 dBA
Blower Discharge Volume: 293 ACFM
Estimated Bearing Life (V-Belt): 15,766 Hours
Estimated Bearing Life (Coupling): 15,766 Hours
Gear Tip Speed: 4,185 Feet/Minute
Connection Sizes (Inlet/Outlet): 4T / 4T