



800-536-9933

www.pdblowers.com

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	