

S/N: EEI-1161

Date: 12/1/2008

Status: In Stock, Not Tested

Description: Blower Package SVE or Air Sparge

Sutorbilt 4MP Blower (Matches Roots URAI 45)
Model GACMBPA

GE Motor:
HP 7.5
PH 3
RPM 1765
460V (9 Amps)
Frame 213T
TEFC
Cat No. E9911

Relief Valve
Filter Housing
Silencer
Skid Mounted

Pulleys:
4.5" Blower
5.5" Motor
Actual Blower RPM: 2157



Company: ROOTS Division
 Address: 900 West Mount St., Connersville, Indiana 47331
 765-827-9200 / 765-825-7669
 Contact:

ROOTS BLOWER PERFORMANCE SUMMARY : Program Version 5.06 Release Date
 12/2/2005

Program Mode: PERFORMANCE Run Date: 12/01/2008

AMBIENT CONDITIONS:

Gas	AIR	
Relative Humidity	36%	
Molecular Weight	28.878	
k-Value	1.396	
Specific Gravity	.997	
Ambient Temperature	68	deg F
Ambient Pressure	14.7	PSIA
Elevation	0	feet

STANDARD CONDITIONS:

Pressure	14.7	PSIA
Temperature	68	deg F
Relative Humidity	36	%

INPUT CONDITIONS:

Actual Inlet Volume	202	ICFM	+/- 6 %
Standard Volume	199	SCFM	
Mass/Weight Flow	15.14	#/min	+/- 6 %
System Inlet Pressure	14.7	PSIA	
Inlet Pressure Loss	0.2	PSI	
Blower Inlet Pressure	14.50	PSIA	
System Discharge Pressure	5	PSIG	
Discharge Pressure Loss	0.2	PSI	
Blower Discharge Pressure	19.90	PSIA	
Inlet Temperature	68	deg F	

SELECTED UNIT DETAIL:

Model	45	URAI	
Speed	2157	RPM	60%
Blower Differential Pressure	5.40	PSI	54%
Power at Blower Shaft	6.3	BHP	+/- 4%
Temperature Rise	67	deg F	30%
Discharge Temperature	135	deg F	
Discharge Volume	165	ACFM	
Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Power at the relief valve Setting	NO RELIEF VALVE SPECIFIED		
Temp. Rise at the Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Discharge Temp At Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Gear Tip Speed	2261	FPM	
V-Belt: Est. B10 Brg Life:	945610	hours	
Coupling: Est. B10 Brg Life:	945610	hours	
Est. Free Field Noise @ 1 m.	84.6	dBa	
CFR	0.121		
Weight	109	lbs.	
Shaft Dia.	0.875	in.	
Min. Sheave Dia.	5	in.	

Inlet/Disch Conn. 2.5T
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ROOTS BLOWER PERFORMANCE SUMMARY : Program Version 5.06 Release Date
 12/2/2005
 Program Mode: PERFORMANCE Run Date: 12/01/2008

AMBIENT CONDITIONS:

Gas	AIR	
Relative Humidity	36%	
Molecular Weight	28.832	
k-Value	1.395	
Specific Gravity	.995	
Ambient Temperature	68	deg F
Ambient Pressure	14.7	PSIA
Elevation	0	feet

STANDARD CONDITIONS:

Pressure	14.7	PSIA
Temperature	68	deg F
Relative Humidity	36	%

INPUT CONDITIONS:

Actual Inlet Volume	189	ICFM	+/-7 %
Standard Volume	124	SCFM	
Mass/Weight Flow	9.44	#/min	+/-7 %
System Inlet Pressure	10	in Hg Vac	
Inlet Pressure Loss	0.2	PSI	
Blower Inlet Pressure	9.61	PSIA	
System Discharge Pressure	14.7	PSIA	
Discharge Pressure Loss	0.2	PSI	
Blower Discharge Pressure	14.90	PSIA	
Inlet Temperature	68	deg F	

SELECTED UNIT DETAIL:

Model	45	URAI	
Speed	2157	RPM	60%
Blower Differential Pressure	5.29	PSI	53%
Power at Blower Shaft	6.1	BHP	+/- 4%
Temperature Rise	104	deg F	46%
Discharge Temperature	172	deg F	
Discharge Volume	145	ACFM	
Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Power at the relief valve Setting	NO RELIEF VALVE SPECIFIED		
Temp. Rise at the Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Discharge Temp At Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
Gear Tip Speed	2261	FPM	
V-Belt: Est. B10 Brg Life:	1012689	hours	
Coupling: Est. B10 Brg Life:	1012689	hours	
Est. Free Field Noise @ 1 m.	83.1	dBa	
CFR	0.121		
Weight	109	lbs.	
Shaft Dia.	0.875	in.	
Min. Sheave Dia.	5	in.	
Inlet/Disch Conn.	2.5T		