



Enviro-Equipment Inc.  
Remediation Division  
10120 Industrial Drive  
Pineville NC 28134  
704 556 7723

S/N: EEI-1187

Date: 5/4/2009

Status: In Stock

Dimensions: 34"L x 24"W x 48"H, 235 LBS

Description: SVE or Air Sparge Pilot Test Unit

- Roots URAI 22 Blower
- Baldor XP Motor
  - o 3HP 1PH
  - o 29/14.5 Amps @ 115/230V
  - o 3450 RPM
  - o 184T Frame
  - o Cat No. L5026T
- Allen Bradley XP Start Stop Switch WIRED 220V 1PH
- Vacuum Relief Valve AW-1035
- Pressure Relief Valve GAST AA307
- Connections: 1" Camlocks
- Stoddard D13-1 Silencer 1"
- 1" In Line Filter Housing
- Belts/Sheaves/Bushings
  - o AK54H and AK39H Sheaves
  - o H1 1/8 and H 5/8 Bushings
  - o A37 Belt





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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: 02/17/2009

AMBIENT CONDITIONS:

Gas	AIR	
Relative Humidity	36%	
Molecular Weight	28.797	
k-Value	1.395	
Specific Gravity	.994	
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	46	ICFM +/- 5 %
Standard Volume	24	SCFM
Mass/Weight Flow	1.84	#/min +/- 5 %
System Inlet Pressure	14	in Hg Vac
Inlet Pressure Loss	0.2	PSI
Blower Inlet Pressure	7.65	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	22	URAI
Speed	4800	RPM 91%
Blower Differential Pressure	7.25	PSI 60%
Power at Blower Shaft	2.5	BHP +/- 4%
Temperature Rise	194	deg F 86%
Discharge Temperature	262	deg F
Discharge Volume	32	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	3144	FPM
V-Belt: Est. B10 Brg Life:	586021	hours
Coupling: Est. B10 Brg Life:	1196804	hours
Est. Free Field Noise @ 1 m.	87.1	dBa
CFR	0.016	
Weight	32	lbs.
Shaft Dia.	0.625	in.
Min. Sheave Dia.	4	in.
Inlet/Disch Conn.	1T	