



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

S/N: EEI-1038

Status: In Stock, Tested

Dimensions: 64x33x65, 811 pounds

Description: Air Sparge Blower

Roots URAI 53
Serial 104653

2" Bleed Air Valve with Ball Valve
1" Pressure Relief Valve Set at 9 PSIG
0 to 15 PSIG Pressure Gauge
3" Exhaust Silencer
2.5" Inlet Filter Solberg FS-31P-250

3PH 10HP XP Motor
3510 RPM
240/460
23/11.5 Amp
215T Frame, 1.15 SF

460V 3PH Panel with HOA, Timer, Transformer, Hour Meter, Motor Starter

22.5 K-D Pulleys – 4.5" Motor and 8.5" Blower
V80 56XV50 Belt





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Company: ROOTS Division
Address: 16240 Port Northwest Drive, Houston, Texas 77041
Ph: 832-590-2305/1-877-393-7668 Fax: 832-590-2326

ROOTS BLOWER PERFORMANCE SUMMARY : Program Version 6.000 Release Date
2/28/2008

Program Mode: PERFORMANCE Run Date: 01/14/2016

AMBIENT CONDITIONS:

Gas	AIR	
Relative Humidity	36%	
Molecular Weight	28.88	
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	183	ICFM	+/-5 %
Standard Volume	183	SCFM	
Mass/Weight Flow	13.71	#/min	+/-5 %
System Inlet Pressure	14.7	PSIA	
Inlet Pressure Loss	0.0	PSI	
Blower Inlet Pressure	14.70	PSIA	
Blower Discharge Pressure	23.70	PSIA	
Discharge Pressure Loss	0.0	PSI	
System Discharge Pressure	9.0	PSIG	
Inlet Temperature	68	deg F	

SELECTED UNIT DETAIL:

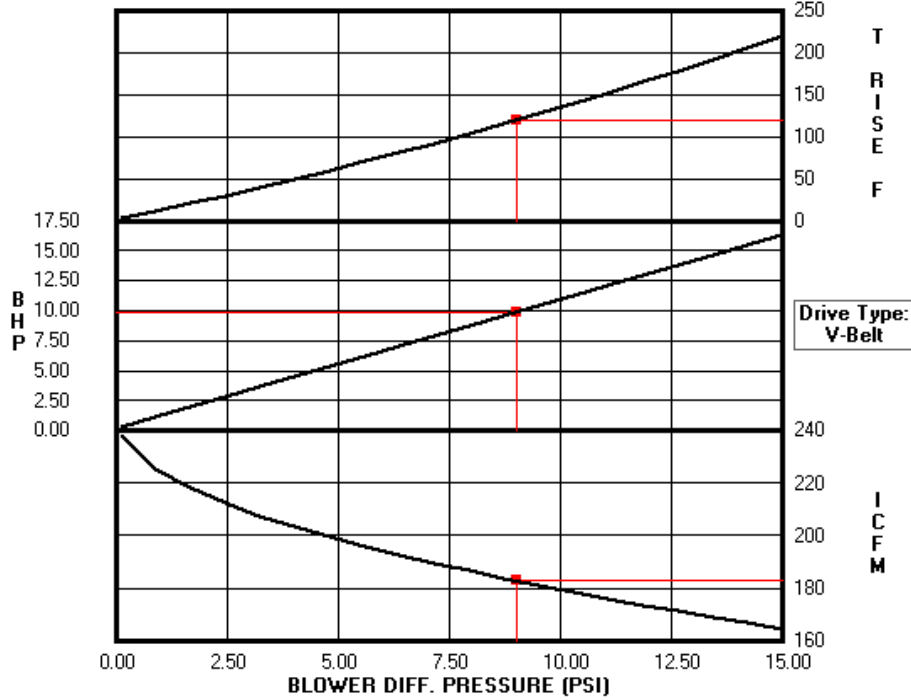
Model	53	URAI	
Speed	1858	RPM	65.2%
Blower Differential Pressure	9.00	PSI	60.0%
Power at Blower Shaft	9.85	BHP	+/- %
Temperature Rise	120	deg F	53.2%
Discharge Temperature	188	deg F	
System Discharge Volume	139	ACFM	
Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
V-Belt: Est. B10 Brg Life:	611909	hours	
Coupling: Est. B10 Brg Life:	611909	hours	
Est. Free Field Noise	88.8	dBa	

Measured as sound pressure level per ISO 2151:2004E with +/-3 dBA tolerance.



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53 URAI: Variable Pressure Performance Dresser ROOTS



INLET CONDITIONS: AIR
RH = 36.00%, MW = 28.88, k = 1.396, Tin = 68 deg F
DESIGN: Speed = 1858 RPM
System Inlet P = 14.7 PSIA
System Disch P = 9 PSIG

Drive Type:
V-Belt

Close Form

Print Curve



Design Data —