



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

S/N: EEI-1212

Status: In Stock, Tested

Dimensions: 2.5'x4'x5' (with silencer removed for storage), 593 pounds.

Description: Soil Vapor Extraction Skid – 50" WC Max Vacuum, 170 CFM Open Flow
Sutorbilt 3MP Blower Model GABMBPA (Equivalent to Roots URAI 33)
Baldor 1.5HP 115/230V 1PH 1725 RPM Motor
KO Tank with 2" FNPT Ball Valve Inlet Connection
Solberg CSL-751-200HC Vacuum Filter
Ametek Rotron 2" Exhaust Silencer
Dwyer XP High Level Float, Murphy XP High Temperature Switch
Various Vacuum and Temperature Gauges
XP Control Panel Wired 230V 1PH with 20' power cable





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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: 05/23/2016

AMBIENT CONDITIONS:

Gas	AIR	
Relative Humidity	36%	
Molecular Weight	28.867	
k-Value	1.396	
Specific Gravity	.996	
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	152	ICFM +/-5 %
Standard Volume	133	SCFM
Mass/Weight Flow	9.96	#/min +/-5 %
System Inlet Pressure	51	in H2O Vac
Inlet Pressure Loss	0.0	PSI
Blower Inlet Pressure	51.00	in H2O Vac
Blower Discharge Pressure	14.70	PSIA
Discharge Pressure Loss	0.0	PSI
System Discharge Pressure	14.7	PSIA
Inlet Temperature	68	deg F

SELECTED UNIT DETAIL:

Model	33	URAI	
Speed	2858	RPM	79.4%
Blower Differential Pressure	1.84	PSI	15.3%
Power at Blower Shaft	1.55	BHP	+/- %
Temperature Rise	23	deg F	10.3%
Discharge Temperature	91	deg F	
System Discharge Volume	138	ACFM	
Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
V-Belt: Est. B10 Brg Life:	48085122	hours	
Coupling: Est. B10 Brg Life:	48085122	hours	
Est. Free Field Noise	79.2	dBa	

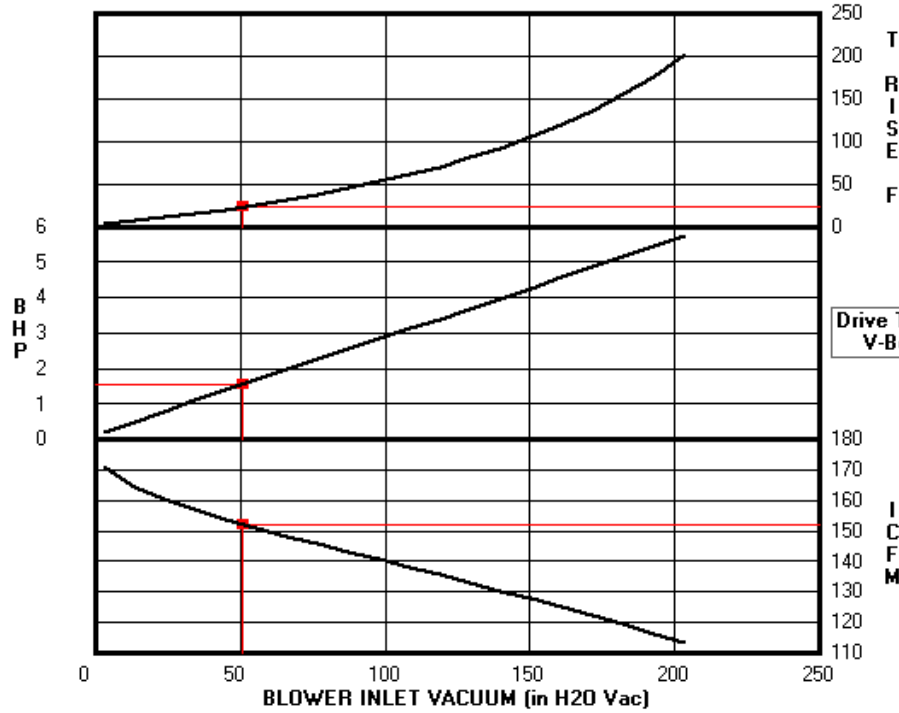
Measured as sound pressure level per ISO 2151:2004E with +/-3
dBA tolerance.



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33 URAI: Variable Pressure Performance

Dresser ROOTS



Drive Type:
V-Belt

Close Form

Print Curve



INLET CONDITIONS: AIR
RH = 36.00%, MW = 28.867, κ = 1.396, T_{in} = 68 deg F
DESIGN: Speed = 2858 RPM
System Inlet P = 51 in H₂O Vac
System Disch P = 14.7 PSIA

Design Data —