



Enviro-Equipment Inc.
10120 Industrial Drive
Pineville NC 28134

Stock #1436

Air Sparge Trailer Including:

Roots URAI 42 Blower with 5HP 1PH TEFC Motor

Blower Base Frame with Discharge Silencer, Belt Guard, Belts and Sheaves

2" Bleed Air Line with Brass Gate Valve and Filter Silencer

High Temperature Switch, Low Pressure Switch, Pressure Gauge, Temperature Gauge, Flow Sensor, Check Valve and Relief Valve all in main galvanized air sparge line

3x 1" Manifold Legs Each with Gate Valve, Check Valve, Pressure Gauge, Flow Meter, 1.5" FNPT Connection Through Wall

Tether Float on 60' Cable Shipped Loose for Pond Low Level Alarm

120/240V, single phase, UL 508 Relay Logic Control Panel in Nema 4 Enclosure with Motor Controls for Compressor, Relay Controls for Safety Switches and Floats, E-Stop, Non Fused Main Disconnect, Circuit Breakers for Lights/Fan,

Sensaphone Cellular Auto Dialer for Alarm Notifications

Enclosed Cargo Trailer with Rear Double Cargo Doors, Driver's Side Man Door, Light Fixture with Switch, Exhaust Fan with Thermostat, Walls/Ceiling Lined with 1" Thick Sound Foam, Exhaust Fan and Fresh Air Intake Rain Hoods Lined with 1" Thick Sound Foam, General Industrial Non-Explosion Proof Electrical Installation





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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: 11/19/2019

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	116	ICFM	+/-5 %
Standard Volume	116	SCFM	
Mass/Weight Flow	8.69	#/min	+/-5 %
System Inlet Pressure	14.7	PSIA	
Inlet Pressure Loss	0.0	PSI	
Blower Inlet Pressure	14.70	PSIA	
Blower Discharge Pressure	20.70	PSIA	
Discharge Pressure Loss	0.0	PSI	
System Discharge Pressure	6.0	PSIG	
Inlet Temperature	68	deg F	

SELECTED UNIT DETAIL:

Model	42	URAI	
Speed	2481	RPM	68.9%
Blower Differential Pressure	6.00	PSI	40.0%
Power at Blower Shaft	4.06	BHP	+/- %
Temperature Rise	74	deg F	30.8%
Discharge Temperature	142	deg F	
System Discharge Volume	93	ACFM	
Relief Valve Setting	NO RELIEF VALVE SPECIFIED		
V-Belt: Est. B10 Brg Life:	4294810	hours	
Coupling: Est. B10 Brg Life:	4638395	hours	
Est. Free Field Noise	87.3	dBa	

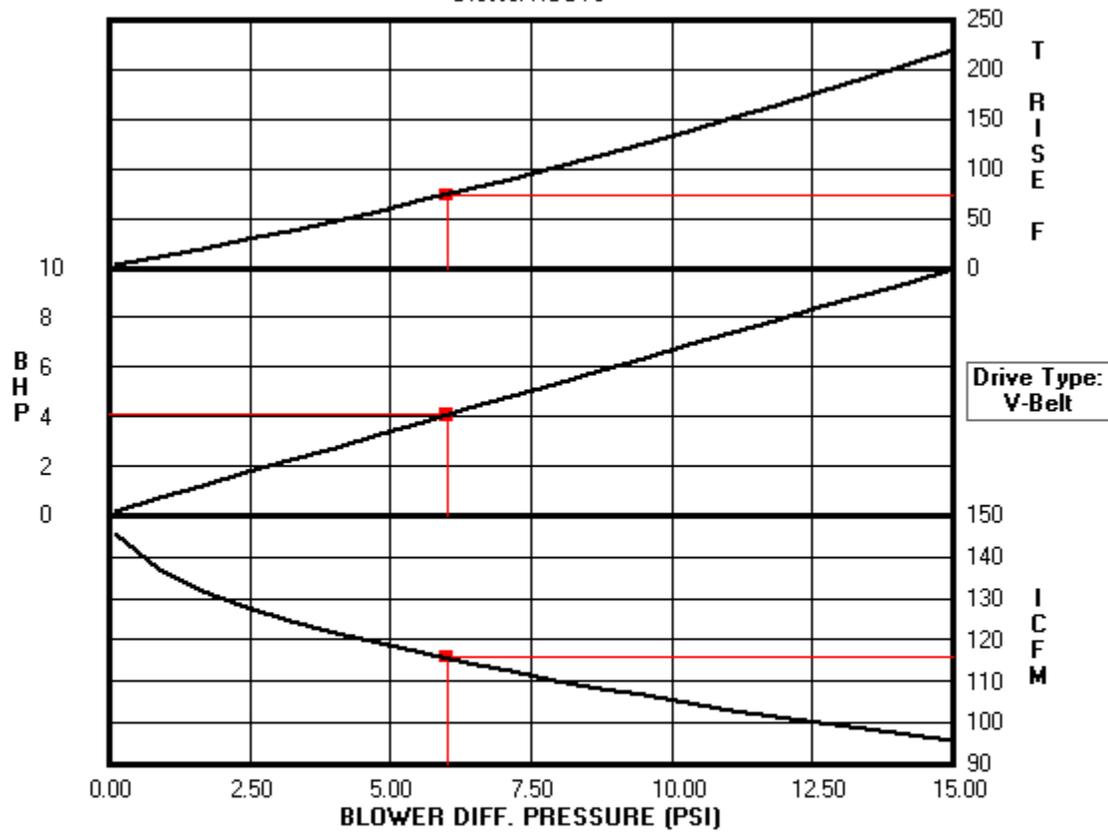
Measured as sound pressure level per ISO 2151:2004E with +/-3 dBA tolerance.



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42 URAI: Variable Pressure Performance

Dresser ROOTS



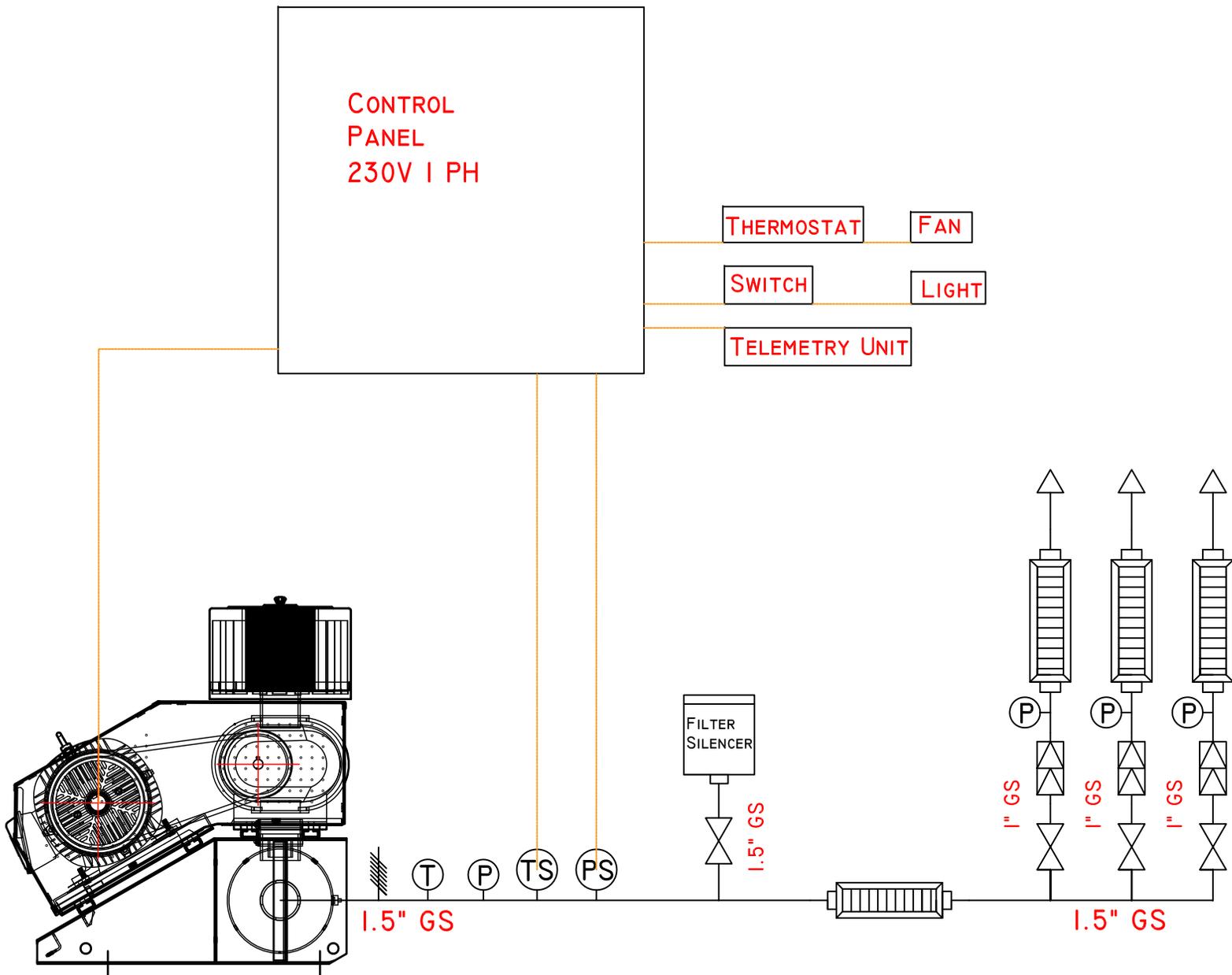
INLET CONDITIONS: AIR

RH = 36.00%, MW = 28.88, $k = 1.396$, $T_{in} = 68$ deg F

DESIGN: Speed = 2481 RPM

System Inlet P = 14.7 PSIA

System Disch P = 6 PSIG



SYMBOL	DESCRIPTION
	SAMPLE PORT
	VACUUM SWITCH
	VACUUM GAUGE
	TEMPERATURE SWITCH
	PRESSURE SWITCH
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	RELIEF VALVE
	SOLENOID VALVE
	WYE STRAINER
	CHECK VALVE
	GATE VALVE
	BALL VALVE
	VACUUM FILTER
	FILTER SILENCER
	EXHAUST MUFFLER
	FLOW METER
	TRANSFER PUMP
	VACUUM BLOWER
	AIR COMPRESSOR
	MOISTURE SEPARATOR
	HEAT EXCHANGER
	INTRINSICALLY SAFE WIRING
	POWER WIRING

DATE	REVISION	BY	CHKD

ENVIRO-EQUIPMENT, INC.
 10120 Industrial Drive
 Pineville, N.C. 28134
 PHONE 704-556-7723
 FAX 704-556-7728

TOLERANCES (UNLESS OTHERWISE SPECIFIED)		CUSTOMER: ARCADIS	
TITLE: P&ID Sparge Trailer			
SCALE: NTS	DRAWN BY: Evan Chew	CHECKED BY: EC	APPROVED BY: EC
DATE: 9-5-19	SHEET: 1	OF SHEETS: 1	DRAWING NO: 4934