Application: SVE 1, 7.5 HP
Customer Name: GENERAL EXCAVATING
Comments:

Application Engineer: WORRELL
Sales Order Number:

GAS MIXTURE: Air(100%)
MACHINE SELECTION: 3L-LegendP
SERVICE: Dry Vacuum

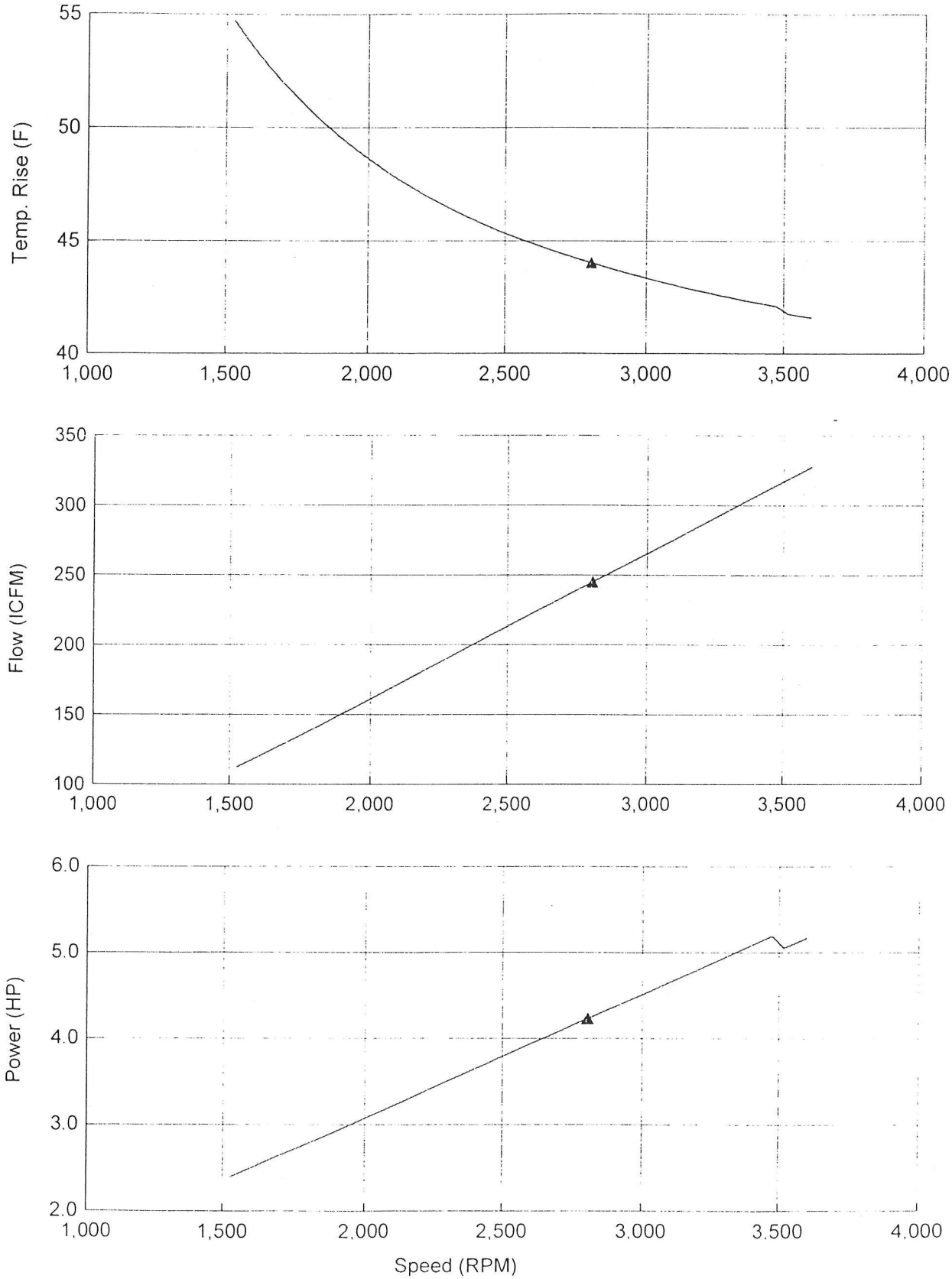
CORRECTED VALUES	ORIGINAL UNITS
Inlet Set #1	
Altitude	1500.000 Alt.(ft)
Barometer	13.902 PSIA
Inlet Pres.	-5.200 In.Hg(G)
Inlet Temp.	70.00 F
Inlet Flow	245.00 ICFM
Dis. Pres.	10.000 In.H2O(G)
Rel. Humid.	100.0 %
Delta Pressure	5.935 In.Hg(G)

MEASURED VALUES	PLOT UNITS
Inlet Set #1	
Blower Speed	2,805 RPM
% of Max. Speed	77.9 %
Blower Power **	4.2 HP
Efficiency	67.7 %
Discharge Temp.	114.0 F
Estimated Noise	81.8 dBA

** Drive losses not included

GAS PARAMETERS	ENGLISH UNITS	METRIC UNITS
Inlet Set #1		
Molecular Weight	28.69 lbm/lbmol	28.69 kg/kgmol
R Value	53.86 ft.lbf/lbm.R	0.29 kJ/kg.K
Density	0.057 lbm/ft^3	0.915 kg/m^3
Sp. Heat @ Const. P	0.244 BTU/lbm.R	1.020 kJ/kg.K
Ratio of Sp. Heats	1.40	1.40
Saturated Vapor Pres.	1.4302 PSIA	0.0986 Bars(A)
Partial Pres. of Gas	10.9845 PSIA	0.7574 Bars(A)
Partial Pres. of Vapor	0.3628 PSIA	0.0250 Bars(A)

GAS MIXTURE: Air(100%)
MACHINE SELECTION: 3L-LegendP



Sutorbilt

Application: SVE 2, 20 HP
Customer Name: GENERAL EXCAVATING
Comments:

Application Engineer: WORRELL
Sales Order Number:

GAS MIXTURE: Air(100%)
MACHINE SELECTION: 5L-LegendP
SERVICE: Dry Vacuum

CORRECTED VALUES	ORIGINAL UNITS	
Inlet Set #1		
Altitude	1500.000	Alt.(ft)
Barometer	13.902	PSIA
Inlet Pres.	-6.200	In.Hg(G)
Inlet Temp.	70.00	F
Inlet Flow	800.00	ICFM
Dis. Pres.	10.000	In.H2O(G)
Rel. Humid.	100.0	%
Delta Pressure	6.935	In.Hg(G)

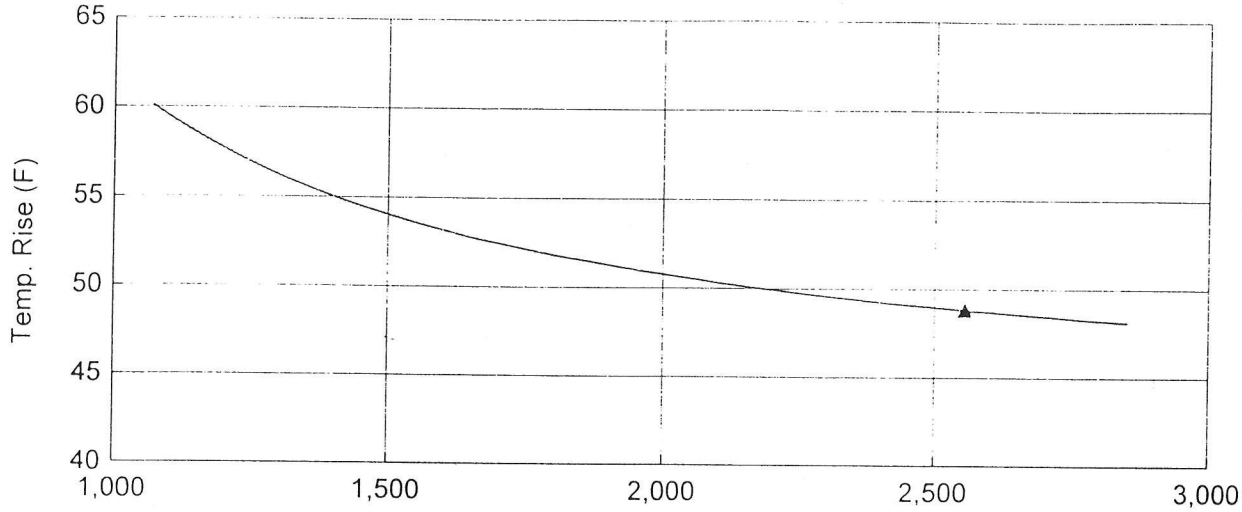
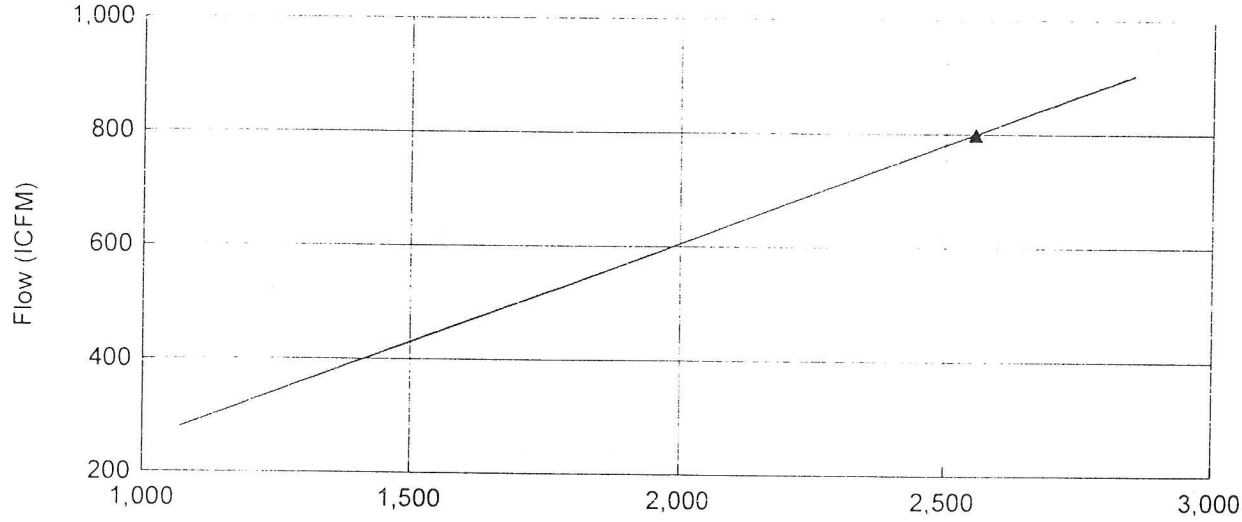
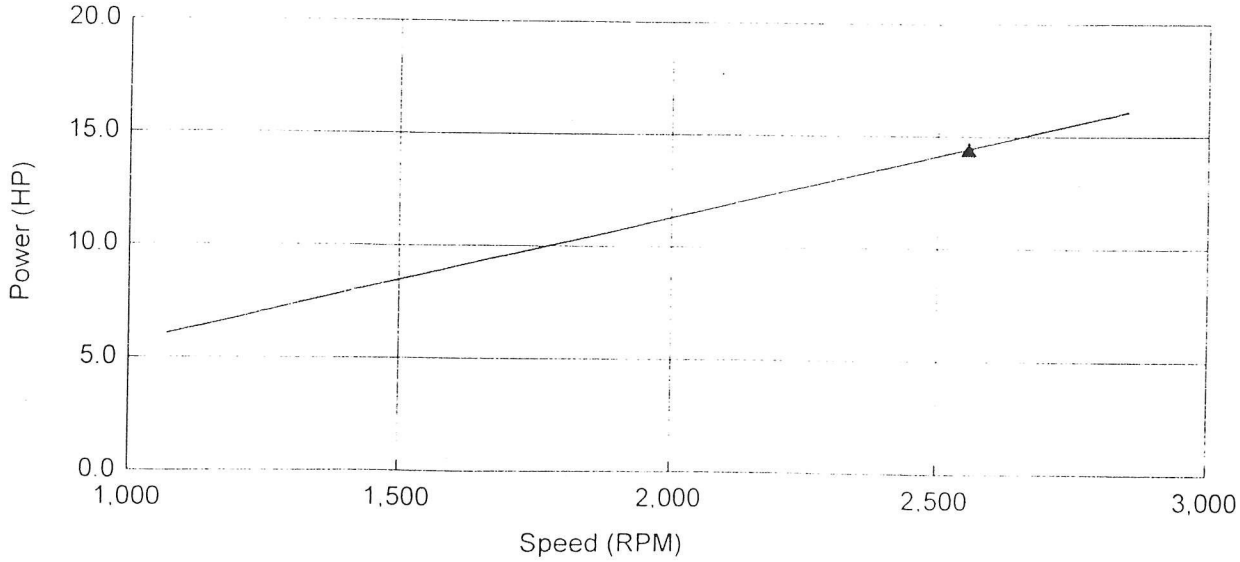
MEASURED VALUES	PLOT UNITS	
Inlet Set #1		
Blower Speed	2,556	RPM
% of Max. Speed	89.7	%
Blower Power **	14.4	HP
Efficiency	74.4	%
Discharge Temp.	118.8	F
Estimated Noise	87.4	dBA

** Drive losses not included

GAS PARAMETERS	ENGLISH UNITS		METRIC UNITS	
Inlet Set #1				
Molecular Weight	28.69	lbm/lbmol	28.69	kg/kgmol
R Value	53.86	ft.lbf/lbm.R	0.29	kJ/kg.K
Density	0.055	lbm/ft^3	0.875	kg/m^3
Sp. Heat @ Const. P	0.244	BTU/lbm.R	1.021	kJ/kg.K
Ratio of Sp. Heats	1.40		1.40	
Saturated Vapor Pres.	1.6373	PSIA	0.1129	Bars(A)
Partial Pres. of Gas	10.4932	PSIA	0.7235	Bars(A)
Partial Pres. of Vapor	0.3628	PSIA	0.0250	Bars(A)

Date 11/11/2004

PROJECT: DORCHESTER

GD Sutorbilt

GAS MIXTURE: Air(100%)
MACHINE SELECTION: 5L-LegendP