Sutorbilt Legend Model 2M

Price:

Click to enter price

Project Specifications

Corrected Values	Original Units		English Units		Metric Units	
Barometer	100	ALTI-FT	14.642	PSIA	1.01	bar a
Elevation	100	ALTI-FT	100	ALTI-FT	30	alti-m
Inlet Pressure	-0.3	PSIG	-0.3	PSIG	-0.021	bar g
Inlet Temp.	100	°F	100	°F	38	°C
Inlet Flow	7	SCFM	7.98	ICFM	14	m^3/h
Dis. Pressure	4	PSIG	4	PSIG	0.276	bar g
Rel. Humidity	80	%	80	%	80	%
Delta Pressure	4.3	PSI	4.3	PSI	0.296	bar

Measured Values	Plot Units		English Units		Metric Units	
Blower Speed	1559	RPM	1559	RPM	1559	RPM
% of Max Speed	30	%	30	%	30	%
Blower Power**	0.6	HP	0.6	HP	0.5	kw
Efficiency	21.2	%	21.2	%	21.2	%
Discharge Temp.	260	°F	260	°F	127	°C
Estimated Noise	75	db	75	db	75	db

**Drive losses not included

Physical:

Weight	55 lbs.
Gear Diameter	2.75 in.
Case Length	2 in.
Port Size	1 in.
WR^2	0.04 lb-ft^2
Configuration	Horizontal

Performance:

Max Delta P	12 PSI
Max Temp	315 °F
Max speed	5275 rpm
Min speed	1389 rpm
Max Case Pressure	25 PSIG
Max Delta T	215 °F
Max T	315 °F

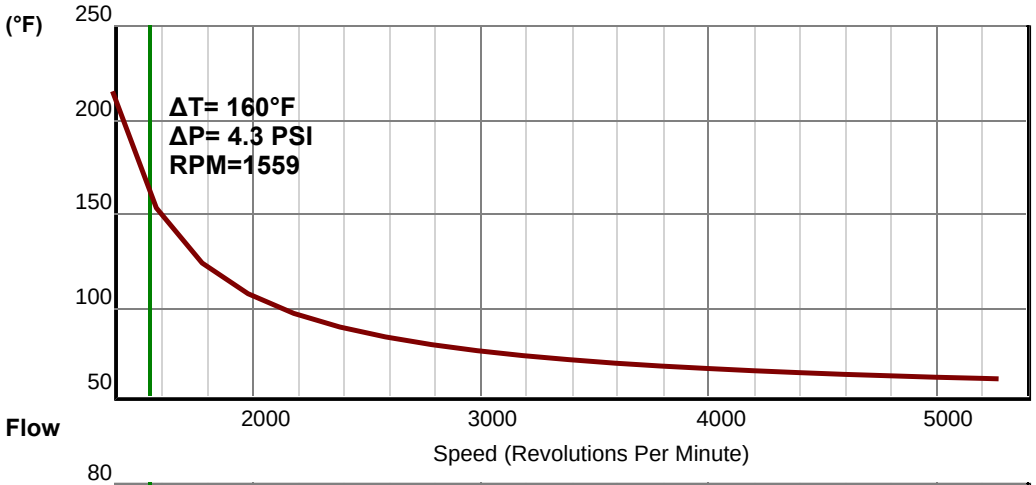
Gas Parameters	English Units		Metric Units	
Molecular Weight	28.39	lbm/lbmol	28.39	kg/kgmol
R Value	54.43	ft.lbf/lbm.R	0.29	kJ/kg.K
Density	0.068	lbm/ft^3	1.085	kg/m^3
Sp. Heat @ Const. P	0.25	BTU/lbm.R	1.03	kJ/kg.K
Ratio of Sp. Heats	1.4		1.4	
Saturated Vapor Pres.	0.9487	PSIA	0.065	bar a
Partial Pres. of Gas	13.5827	PSIA	0.936	bar a
Partial Pres. of Vapor	0.7589	PSIA	0.052	bar a
Reference Pressure	14.696	PSIA	1.01	bar a
Reference Temperature	68	°F	0	°C
Reference Rel. Humid.	36	%	0	%

Gas mix: % by volume

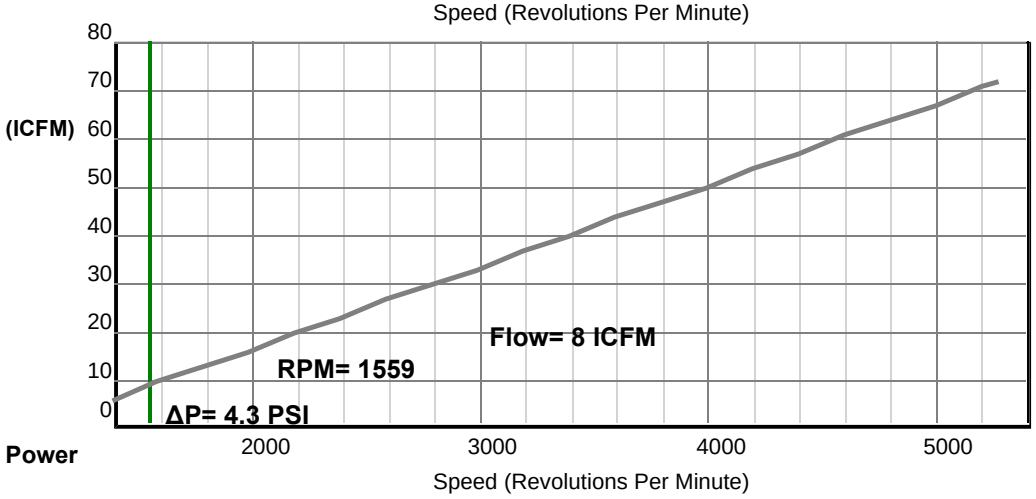
Air 100 %

Performance Information - Sutorbilt Legend Model 2M

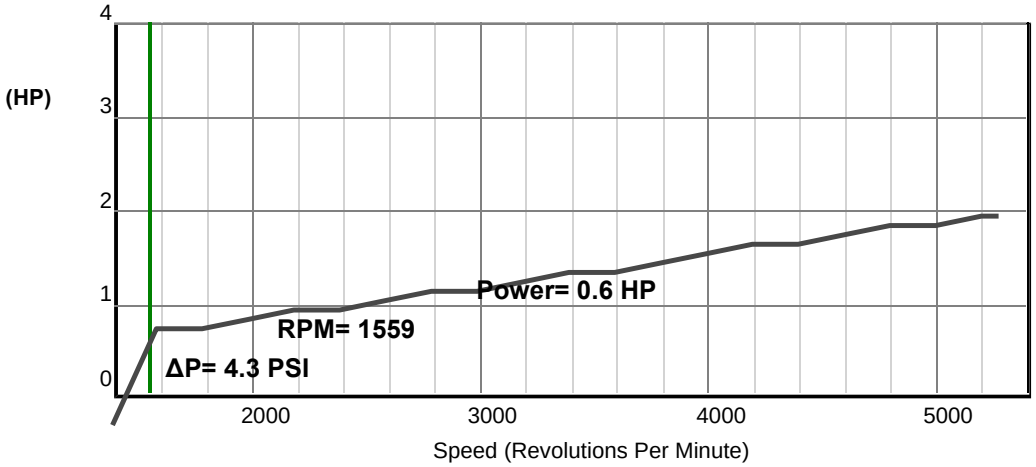
Temperature Rise



Flow



Power



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