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	11 SCFM	12.24 ICFM	21 m³/h
Dis. Pressure	2.25 PSIG	2.25 PSIG	0.155 bar g
Rel. Humidity	80 %	80 %	80 %
Delta Pressure	2.55 PSI	2.55 PSI	0.176 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**	0.4 HP	0.4 HP	0.3 kw
Efficiency	30.5 %	30.5 %	30.5 %
Discharge Temp.	163 °F	163 °F	73 °C
Estimated Noise	74 db	74 db	74 db

**Drive losses not included

Physical:

Weight	55 lbs.
Gear Diameter	2.75 in.
Case Length	2 in.
Port Size	1 in.
WR²	0.04 lb-ft²
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/ft³	1.085 kg/m³
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 %

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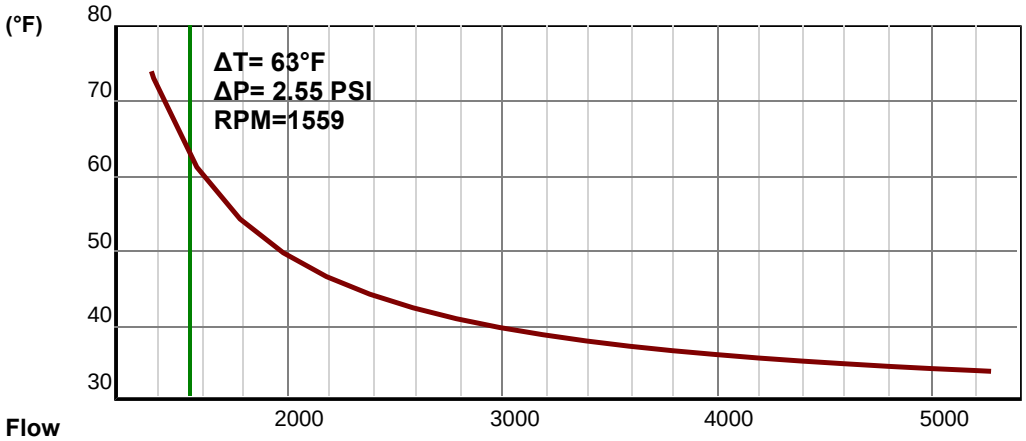
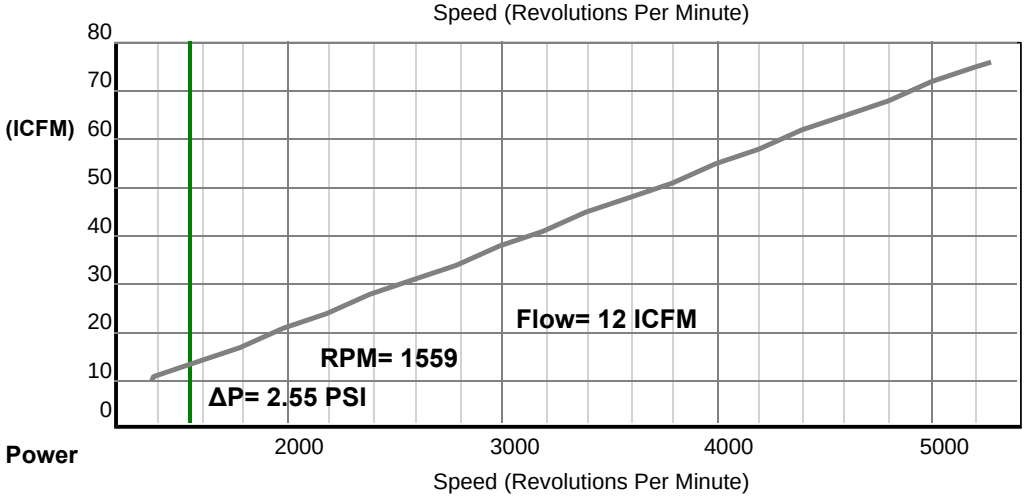
Performance Information - Sutorbilt Legend Model 2M

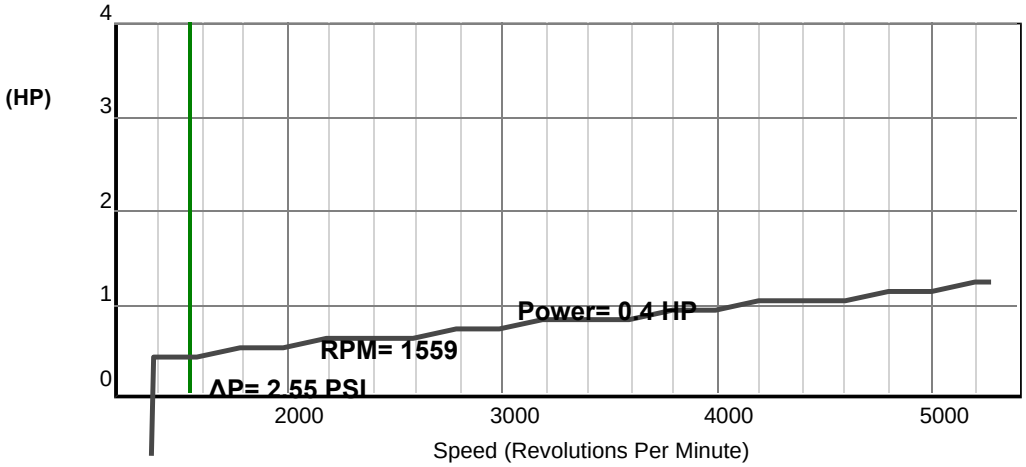
Temperature Rise



Flow



Power



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