

COMPRESSOR DATA SHEET

Rotary Screw Variable Frequency Drive Compressor

MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: Sullair Corp		
2	Model Number: 7509V		Date: January 1, 2009
	<input checked="" type="checkbox"/> Air-cooled	<input type="checkbox"/> Water-cooled	
	<input checked="" type="checkbox"/> Oil-injected	<input type="checkbox"/> Oil-free	# of Stages: 1
3	Full Load Operating Pressure	125	psig ^b
4	Maximum Full Flow Operating Pressure	125	psig ^c
5	Drive Motor Nameplate Rating	100	hp
6	Drive Motor Nameplate Efficiency	95.4	percent
7	Fan Motor Nameplate Rating (if applicable)	3	hp
8	Fan Motor Nameplate Efficiency	87.5	percent
9	Input Power (kW)	Capacity (acfm) ^{a,e}	Specific Power (kW/100 acfm) ^c
	93.5	454.0	20.59
	80.4	385.9	20.82
	67.2	317.8	21.15
	54.1	249.7	21.65
	40.9	181.6	22.53
	27.8	113.5	24.46
10	Total Package Input Power at Zero Flow ^d	0.0	kW
11	<p style="text-align: center; font-size: small;">Note: Graph is only a visual representation of the data in Section 9</p>		

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with Annex E to ISO 1217; acfm is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- c. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- e. Tolerance is specified in Annex E to ISO 1217 as follows:
NOTE: The terms "power" and "energy" are synonymous for purposes of this document

Member:



Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy
m^3 / min	ft^3 / min	%	%
Below 0.5	Below 15	+/- 7	+/- 8
0.5 to 1.5	15 to 50	+/- 6	+/- 7
1.5 to 15	50 to 500	+/- 5	+/- 6
Above 15	Above 500	+/- 4	+/- 5