

# COMPRESSOR DATA SHEET

## Rotary Screw Variable Frequency Drive Compressor

### MODEL DATA - FOR COMPRESSED AIR

1	Manufacturer: <b>Sullair Corp</b>		
2	Model Number: <b>7509PV</b>		Date: March 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: <b>1</b>
3	Full Load Operating Pressure	<b>125</b>	psig <sup>b</sup>
4	Maximum Full Flow Operating Pressure	<b>125</b>	psig <sup>c</sup>
5	Drive Motor Nameplate Rating	<b>100</b>	hp
6	Drive Motor Nameplate Efficiency	<b>95.4</b>	percent
7	Fan Motor Nameplate Rating (if applicable)	<b>3</b>	hp
8	Fan Motor Nameplate Efficiency	<b>87.5</b>	percent
9	Input Power (kW)	Capacity (acfm) <sup>a,e</sup>	Specific Power (kW/100 acfm) <sup>e</sup>
	<b>92.7</b>	<b>457.0</b>	<b>20.28</b>
	<b>79.6</b>	<b>388.5</b>	<b>20.50</b>
	<b>66.7</b>	<b>319.9</b>	<b>20.84</b>
	<b>53.6</b>	<b>251.4</b>	<b>21.32</b>
	<b>40.6</b>	<b>182.8</b>	<b>22.21</b>
	<b>26.8</b>	<b>114.3</b>	<b>23.45</b>
	<b>16.9</b>	<b>68.6</b>	<b>24.61</b>
10	Total Package Input Power at Zero Flow <sup>d</sup>	<b>0.0</b>	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:

**Member:**



- 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

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