

## COMPRESSOR DATA SHEET

### Rotary Screw Compressor

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer: <b>Quincy Compressor</b>	Date: <b>December 2009</b>	
2	Model Number: <b>QSI-500i</b> <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>Single</b>	
		VALUE	UNIT
3	Rated Capacity at Full Load Operating Pressure	<b>490</b>	acfm <sup>a,f</sup>
4	Full Load Operating Pressure	<b>125</b>	psig <sup>b</sup>
5	Maximum Full Flow Operating Pressure	<b>140</b>	psig <sup>c</sup>
6	Drive Motor Nameplate Rating	<b>125</b>	hp
7	Drive Motor Nameplate Nominal Efficiency	<b>94.1</b>	percent
8	Fan Motor Nameplate Rating (if applicable)	<b>3.0</b>	hp
9	Fan Motor Nameplate Nominal Efficiency	<b>81.5</b>	percent
10	Total Package Input Power at Zero Flow	<b>25.74</b>	kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure	<b>99.2</b>	kW <sup>d</sup>
12	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	<b>20.2</b>	kW/100 cfm <sup>g</sup>

**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROPN2CPTC2 Test Code (Annex C to ISO 1217). ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) 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. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in the CAGI/PNEUROPN2CPTC2 Test Code (Annex C to ISO 1217).
- f, g. Tolerance is specified in the CAGI/PNEUROPN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

Volume Flow Rate at Specified Conditions		Volume Flow Rate <sup>f</sup>	Specific Energy Consumption <sup>g</sup>
<u>m<sup>3</sup> / min</u>	<u>ft<sup>3</sup> / min</u>	%	%
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



This form was developed by the Compressed Air and Gas Institute for the use of its members.  
CAGI has not independently verified the reported data.