

## COMPRESSOR DATA SHEET

### Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR |  |                            |                         |
|---------------------------------|--|----------------------------|-------------------------|
| 1                               | Manufacturer: <b>Quincy Compressor</b>   | Date: <b>August 2006</b>   |                         |
| 2                               | Model Number: <b>QSI-540</b><br><input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled<br><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>540</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>94.5</b>                | percent                 |
| 8                               | Fan Motor Nameplate Rating (if applicable)   | <b>3</b>                   | hp                      |
| 9                               | Fan Motor Nameplate Nominal Efficiency   | <b>81.5</b>                | percent                 |
| 10                              | Total Package Input Power at Zero Flow   | <b>33.6</b>                | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure   | <b>111.9</b>               | kW <sup>d</sup>         |
| 12                              | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure  | <b>20.7</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<br>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.