

## COMPRESSOR DATA SHEET

### Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR |   |                       |                         |
|---------------------------------|---|-----------------------|-------------------------|
| 1                               | Manufacturer: <b>Atlas Copco Compressors, Inc.</b>  |                       |                         |
| 2                               | Model Number: <b>GA90-100 W</b><br><input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled<br><input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | # of Stages: <b>1</b> | VALUE      UNIT         |
| 3                               | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>  | <b>632</b>            | acfm <sup>a, e</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>   | <b>100</b>            | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>   | <b>107</b>            | psig <sup>c</sup>       |
| 6                               | Drive Motor Nameplate Rating  | <b>125</b>            | hp                      |
| 7                               | Drive Motor Nameplate Nominal Efficiency  | <b>95.4</b>           | percent                 |
| 8                               | Fan Motor Nameplate Rating (if applicable)  |                       | hp                      |
| 9                               | Fan Motor Nameplate Nominal Efficiency  |                       | percent                 |
| 10                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>   | <b>105</b>            | kW <sup>d</sup>         |
| 11                              | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>  | <b>16.6</b>           | kW/100 cfm <sup>e</sup> |

**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 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/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

| Volume Flow Rate<br>at specified conditions |                             | Volume Flow Rate | Specific Energy Consumption |
|---|-----------------------------|------------------|-----------------------------|
| <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                       |

Member



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.