



## COMPRESSOR DATA SHEET

**In Accordance with Federal Uniform Test Method for Certain  
Lubricated Air Compressors  
Rotary Compressor: Fixed Speed**

| MODEL DATA - FOR COMPRESSED AIR |  |                    |                         |
|---------------------------------|--|--------------------|-------------------------|
| 1                               | Manufacturer:  | <b>Atlas Copco</b> |                         |
| 2                               | Model Number:  | <b>GA45-175</b>    | Date: <b>6/29/2020</b>  |
|                                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled         |                    | Type: <b>Screw</b>      |
|                                 |  |                    | # of Stages: <b>1</b>   |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                               | <b>229.6</b>       | acfm <sup>a, e</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>  | <b>175</b>         | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>  | <b>181</b>         | psig <sup>c</sup>       |
| 6                               | Drive Motor Nominal Rating   | <b>60</b>          | hp                      |
| 7                               | Drive Motor Nominal Efficiency   | <b>93.6</b>        | percent                 |
| 8                               | Fan Motor Nominal Rating (if applicable)   | <b>2.0</b>         | hp                      |
| 9                               | Fan Motor Nominal Efficiency   | <b>77.0</b>        | percent                 |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>  | <b>13.8</b>        | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>    | <b>51.6</b>        | kW <sup>d</sup>         |
| 12*                             | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup> | <b>22.5</b>        | kW/100 cfm <sup>e</sup> |
| 13                              | Isentropic Efficiency  | <b>79.67</b>       | Percent                 |

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator.

Consult CAGI website for a list of participants in the third party verification program:

[www.cagi.org](http://www.cagi.org)

**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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 ISO 1217, Annex C, as shown in table below:

NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

| Volume Flow Rate<br>at specified conditions |                             | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero<br>Flow Power |
|---|-----------------------------|------------------|--------------------------------|------------------------------|
| <u>m<sup>3</sup> / min</u>                  | <u>ft<sup>3</sup> / min</u> | %                | %                              |                              |
| Below 0.5                                   | Below 17.6                  | +/- 7            | +/- 8                          | +/- 10%                      |
| 0.5 to 1.5                                  | 17.6 to 53                  | +/- 6            | +/- 7                          |                              |
| 1.5 to 15                                   | 53 to 529.7                 | +/- 5            | +/- 6                          |                              |
| Above 15                                    | Above 529.7                 | +/- 4            | +/- 5                          |                              |

Member



ROT 030.1