



COMPRESSOR DATA SHEET

In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Variable Frequency Drive

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---------------------------------|---|--------------------------------|---|
| 1 | Manufacturer: Atlas Copco | | |
| 2 | Model Number: G160VSD-145-102 | | Date: 7/22/2020 |
| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | | Type: Screw |
| | | | # of Stages: 1 |
| 3 | Full Load Operating Pressure ^b | 102 | psig ^b |
| 4 | Drive Motor Nominal Rating | 214 | hp |
| 5 | Drive Motor Nominal Efficiency | 95 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 5.4 | hp |
| 7 | Fan Motor Nominal Efficiency | 89.9 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 182.7 Max | 1062.0 | 17.2 |
| | 170.0 | 997.0 | 17.1 |
| | 134.2 | 797.0 | 16.8 |
| | 99.9 | 594.0 | 16.8 |
| | 67.1 | 388.0 | 17.3 |
| | 51.5 Min | 284.0 | 18.1 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW |
| 10 | Isentropic Efficiency | 79.09 | % |
| 11 | <div><div><div>Specific Power (kW/100 ACFM)</div><div></div><div>Capacity (ACFM)</div></div><div>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35...</div></div> | | |

*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

NOTES:

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. 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.
- d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:

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

| Volume Flow Rate at specified conditions | | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|---|-----------------------------|------------------|--------------------------------|---------------------------|
| <u>m³ / min</u> | <u>ft³ / min</u> | % | % | +/- 10% |
| Below 0.5 | Below 17.6 | +/- 7 | +/- 8 | |
| 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 | |



ROT 030.1