



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: | GA15VSD+-175 | Date: 11/30/2020 |
| | <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 | 20 | hp |
| 5 | Drive Motor Nominal Efficiency | 94.5 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 0.3 | hp |
| 7 | Fan Motor Nominal Efficiency | 73 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 18.3 Max | 88.6 | 20.7 |
| | 15.1 | 77.0 | 19.6 |
| | 11.1 | 59.4 | 18.7 |
| | 7.5 | 39.9 | 18.8 |
| | 4.4 | 20.6 | 21.4 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW |
| 10 | Isentropic Efficiency | 69.65 | % |
| 11 | <p style="text-align: center;">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 X-Axis Scale, 0 to 25% over maximum capacity</p> | | |

*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 |
|---|-----------------------|------------------|--------------------------------|---------------------------|
| m ³ / min | ft ³ / min | % | % | |
| 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 | |



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| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | | Type: Screw |
| | | | # of Stages: 1 |
| 3 | Full Load Operating Pressure ^b | 138 | psig ^b |
| 4 | Drive Motor Nominal Rating | 20 | hp |
| 5 | Drive Motor Nominal Efficiency | 94.5 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 0.3 | hp |
| 7 | Fan Motor Nominal Efficiency | 73 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 17.2 Max | 75.3 | 22.8 |
| | 13.5 | 60.6 | 22.3 |
| | 10.8 | 48.8 | 22.1 |
| | 7.0 | 29.0 | 24.1 |
| | 4.7 | 16.3 | 28.8 |
| | 4.5 Min | 14.4 | 31.3 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW |
| 10 | Isentropic Efficiency | 69.69 | % |
| 11 | <p>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 X-Axis Scale, 0 to 25% over maximum capacity</p> | | |

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|--|-----------------------|------------------|-----------------------------|---------------------------|
| m ³ / min | ft ³ / min | % | % | +/- 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 | |
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| | | | # of Stages: 1 |
| 3 | Full Load Operating Pressure ^b | 181 | psig ^b |
| 4 | Drive Motor Nominal Rating | 20 | hp |
| 5 | Drive Motor Nominal Efficiency | 94.5 | percent |
| 6 | Fan Motor Nominal Rating (if applicable) | 0.3 | hp |
| 7 | Fan Motor Nominal Efficiency | 73 | percent |
| 8* | Input Power (kW) | Capacity (acfm) ^{a,d} | Specific Power (kW/100 acfm) ^d |
| | 15.6 Max | 59.1 | 26.4 |
| | | 47.7 | 26.6 |
| | | 37.9 | 27.7 |
| | | 28.2 | 30.1 |
| | 6.0 Min | 19.1 | 34.6 |
| 9* | Total Package Input Power at Zero Flow ^{c, d} | 0.0 | kW |
| 10 | Isentropic Efficiency | 64.97 | % |
| 11 | <div style="border: 1px solid black; padding: 10px;"> <p align="center">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 X-Axis Scale, 0 to 25% over maximum capacity</p> </div> | | |

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