

**COMPRESSOR DATA SHEET**

**Federal Uniform Test Method for Certain Air Compressors Not Applicable**

**Rotary Compressor: Variable Frequency Drive**

**MODEL DATA - FOR COMPRESSED AIR**

| 1               | Manufacturer: Atlas Copco  |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
|-----------------|--|------------------------|----------------------------------|-----------------|-----------------------------|-----|------|-----|------|-----|------|------|------|------|------|
| 2               | Model Number: ZR 250 VSD+-10.4   | Date: 12-18-2024       |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | <input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled   | Type: Screw            |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | <input type="checkbox"/> Lubricated <input checked="" type="checkbox"/> Oil-free   | # of Stages: 2         |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 3               | Full Load Operating Pressure*(b)   | 150.0                  | psig*(b)                         |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 4               | Drive Motor Nominal Rating   | 167.6 & 167.6          | hp                               |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 5               | Drive Motor Nominal Efficiency   | 97.4 & 97.4            | percent                          |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 6               | Fan Motor Nominal Rating (if applicable)   | --                     | hp                               |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 7               | Fan Motor Nominal Efficiency   | --                     | percent                          |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 8*              | Input Power (kW)   | Capacity (acfm) *(a,d) | Specific Power (kW/100 acfm)*(d) |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | 264.7      Max   | 1,423.8                | 18.6                             |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | 221.8  | 1,178.1                | 18.8                             |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | 180.2  | 932.3                  | 19.3                             |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | 139.5  | 686.6                  | 20.3                             |                 |                             |     |      |     |      |     |      |      |      |      |      |
|                 | 98.9      Min  | 440.9                  | 22.4                             |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 9*              | Total Package Input Power at Zero Flow*(c,d)   | 0.0                    | kW                               |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 10              | <table border="1"> <caption>Graph Data: Specific Power vs Capacity</caption> <thead> <tr> <th>Capacity (ACFM)</th> <th>Specific Power (kW/100ACFM)</th> </tr> </thead> <tbody> <tr> <td>450</td> <td>22.5</td> </tr> <tr> <td>700</td> <td>20.5</td> </tr> <tr> <td>950</td> <td>19.5</td> </tr> <tr> <td>1200</td> <td>19.0</td> </tr> <tr> <td>1450</td> <td>18.5</td> </tr> </tbody> </table> |                        |                                  | Capacity (ACFM) | Specific Power (kW/100ACFM) | 450 | 22.5 | 700 | 20.5 | 950 | 19.5 | 1200 | 19.0 | 1450 | 18.5 |
| Capacity (ACFM) | Specific Power (kW/100ACFM)  |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 450             | 22.5   |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 700             | 20.5   |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 950             | 19.5   |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 1200            | 19.0   |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |
| 1450            | 18.5   |                        |                                  |                 |                             |     |      |     |      |     |      |      |      |      |      |

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

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

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

Notes:

- 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.
- The operating pressure at which the Capacity and Electrical Consumption were measured for this data sheet.
- 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.
- 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.

Member



| Volume Flow Rate at specified conditions |                       | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|--|-----------------------|------------------|-----------------------------|---------------------------|
| m <sup>3</sup> / min                     | ft <sup>3</sup> / min | %                | %                           |                           |
| Below 0.5                                | Below 15              | +/- 7            | +/- 8                       | +/- 10                    |
| 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                       |                           |