

**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: ZT 55VSD-8.6  | Date: 01-05-2024       |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled  | Type: Tooth            |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | <input type="checkbox"/> Lubricated <input checked="" type="checkbox"/> Oil-free  | # of Stages: 2         |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 3               | Full Load Operating Pressure*(b)  | 124.7                  | psig*(b)                         |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 4               | Drive Motor Nominal Rating  | 73.8                   | hp                               |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 5               | Drive Motor Nominal Efficiency  | 92.0                   | percent                          |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 6               | Fan Motor Nominal Rating (if applicable)  | 4.8                    | hp                               |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 7               | Fan Motor Nominal Efficiency  | 82.0                   | percent                          |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 8*              | Input Power (kW)  | Capacity (acfm) *(a,d) | Specific Power (kW/100 acfm)*(d) |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | 74.6 Max  | 285.7                  | 26.1                             |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | 60.1  | 231.8                  | 25.9                             |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | 46.1  | 177.9                  | 25.9                             |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | 35.4  | 124.0                  | 28.6                             |                 |                             |      |      |      |      |      |      |      |      |      |      |
|                 | 25.4 Min  | 70.1                   | 36.2                             |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 9*              | Total Package Input Power at Zero Flow*(c,d)  | 10.2                   | kW                               |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 10              | <table border="1"> <caption>Graph Data</caption> <thead> <tr> <th>Capacity (ACFM)</th> <th>Specific Power (kW/100ACFM)</th> </tr> </thead> <tbody> <tr> <td>74.6</td> <td>26.1</td> </tr> <tr> <td>60.1</td> <td>25.9</td> </tr> <tr> <td>46.1</td> <td>25.9</td> </tr> <tr> <td>35.4</td> <td>28.6</td> </tr> <tr> <td>25.4</td> <td>36.2</td> </tr> </tbody> </table> |                        |                                  | Capacity (ACFM) | Specific Power (kW/100ACFM) | 74.6 | 26.1 | 60.1 | 25.9 | 46.1 | 25.9 | 35.4 | 28.6 | 25.4 | 36.2 |
| Capacity (ACFM) | Specific Power (kW/100ACFM)   |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 74.6            | 26.1  |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 60.1            | 25.9  |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 46.1            | 25.9  |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 35.4            | 28.6  |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |
| 25.4            | 36.2  |                        |                                  |                 |                             |      |      |      |      |      |      |      |      |      |      |

\*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                       |                           |