

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 75 VSD STD-10.4 | Date: 12-12-2024 | | | | | | | | | | | | | |
| | <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 | 100.6 | hp | | | | | | | | | | | | |
| 5 | Drive Motor Nominal Efficiency | 93.6 | 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) | | | | | | | | | | | | |
| | 86.4 Max | 392.8 | 22.0 | | | | | | | | | | | | |
| | 75.9 | 337.7 | 22.5 | | | | | | | | | | | | |
| | 65.8 | 282.5 | 23.3 | | | | | | | | | | | | |
| | 56.2 | 227.4 | 24.7 | | | | | | | | | | | | |
| | 47.1 Min | 172.2 | 27.3 | | | | | | | | | | | | |
| 9* | Total Package Input Power at Zero Flow*(c,d) | 0.0 | kW | | | | | | | | | | | | |
| 10 | <table border="1"> <caption>Data points for Specific Power vs Capacity</caption> <thead> <tr> <th>Capacity (ACFM)</th> <th>Specific Power (kW/100ACFM)</th> </tr> </thead> <tbody> <tr> <td>170</td> <td>27.5</td> </tr> <tr> <td>220</td> <td>24.7</td> </tr> <tr> <td>280</td> <td>23.3</td> </tr> <tr> <td>340</td> <td>22.5</td> </tr> <tr> <td>390</td> <td>22.0</td> </tr> </tbody> </table> | | | Capacity (ACFM) | Specific Power (kW/100ACFM) | 170 | 27.5 | 220 | 24.7 | 280 | 23.3 | 340 | 22.5 | 390 | 22.0 |
| Capacity (ACFM) | Specific Power (kW/100ACFM) | | | | | | | | | | | | | | |
| 170 | 27.5 | | | | | | | | | | | | | | |
| 220 | 24.7 | | | | | | | | | | | | | | |
| 280 | 23.3 | | | | | | | | | | | | | | |
| 340 | 22.5 | | | | | | | | | | | | | | |
| 390 | 22.0 | | | | | | | | | | | | | | |

*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

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 ³ / min | ft ³ / min | % | % | +/- 10 |
| Below 0.5 | Below 15 | +/- 7 | +/- 8 | |
| 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 | |