

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 90 VSD STD-8.6 | 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) | 124.7 | psig*(b) |
| 4 | Drive Motor Nominal Rating | 120.7 | hp |
| 5 | Drive Motor Nominal Efficiency | 94.4 | 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) |
| | 108.2 Max | 546.8 | 19.8 |
| | 89.5 | 449.1 | 19.9 |
| | 71.8 | 351.3 | 20.4 |
| | 55.3 | 253.6 | 21.8 |
| | 40.1 Min | 155.9 | 25.7 |
| 9* | Total Package Input Power at Zero Flow*(c,d) | 0.0 | kW |
| 10 | | | |

*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 | % | % | |
| 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 | |