# COMPRESSOR DATA SHEET

**In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors**

**Rotary Compressor: Fixed Speed**

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---|---|---|---|
| 1 | Manufacturer: Atlas Copco | | |
| 2 | Model Number: GA 180-8.6 | Date: | 03-08-2022 |
| | ☑ Air-cooled ☐ Water-cooled | Type: | Screw |
| | | # of Stages: | 1 |
| 3* | Rated Capacity at Full Load Operating Pressure*(a,e) | 1,134.0 | (acfm) *(a,e) |
| 4* | Full Load Operating Pressure*(b) | 125.0 | psig*(b) |
| 5 | Maximum Full Flow Operating Pressure*(c) | 132.0 | psig*(c) |
| 6 | Drive Motor Nominal Rating | 120.7 & 120.7 | hp |
| 7 | Drive Motor Nominal Efficiency | 96.2 & 96.2 | percent |
| 8 | Fan Motor Nominal Rating (if applicable) | 3.0 & 3.0 & 3.0 | hp |
| 9 | Fan Motor Nominal Efficiency | 79.9 & 79.9 & 79.9 | percent |
| 10* | Total Package Input Power at Zero Flow*(e) | 43.3 | kW*(e) |
| 11 | Total Package Input Power at Rated Capacity and Full Load Operating Pressure*(d) | 199.0 | kW*(d) |
| 12* | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure*(e) | 17.5 | kW/100 cfm*(e) |
| 13 | Isentropic Efficiency | 85.5 | Percent |

*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:

a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet per minute at inlet conditions.

b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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. Total package input power at other than reported operating points will vary with control strategy.

e 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 |
|---|---|---|---|---|
| m3 / min | ft3 / min | % | % | |
| Below 0.5 | Below 15 | +/- 7 | +/- 8 | |
| 0.5 to 1.5 | 15 to 50 | +/- 6 | +/- 7 | +/- 10 |
| 1.5 to 15 | 50 to 500 | +/- 5 | +/- 6 | |
| Above 15 | Above 500 | +/- 4 | +/- 5 | |

Member

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