



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: | Chicago Pneumatic | |
| 2 | Model Number: | CPF 270 - 110 psig / 460V/3ph/60Hz | Date: 9/8/2022 |
| | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled | | Type: Screw |
| | | | # of Stages: 1 |
| 3* | Rated Capacity at Full Load Operating Pressure ^{a, c} | 1,312 | acfm ^{a, e} |
| 4* | Full Load Operating Pressure ^b | 110 | psig ^b |
| 5 | Maximum Full Flow Operating Pressure ^c | 110 | psig ^c |
| 6 | Drive Motor Nominal Rating | 268 | hp |
| 7 | Drive Motor Nominal Efficiency | 95.8 | percent |
| 8 | Fan Motor Nominal Rating (if applicable) | 11 (2x5.5) | hp |
| 9 | Fan Motor Nominal Efficiency | 89.5 | percent |
| 10* | Total Package Input Power at Zero Flow ^c | 61.6 | kW ^c |
| 11 | Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d | 229.20 | kW ^d |
| 12* | Package Specific Power at Rated Capacity and Full Load Operating Pressure ^e | 17.47 | kW/100 cfm ^e |
| 13 | Isentropic Efficiency | 80.20 | Percent |

*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party 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. Maximum pressure attainable at full flow, usually the unload pressure setting for load/no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. Tolerance is specified in ISO 1217, Annex C, 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 17.6 | +/- 7 | +/- 8 | +/- 10% |
| 0.5 to 1.5 | 17.6 to 53 | +/- 6 | +/- 7 | |
| 1.5 to 15 | 53 to 529.7 | +/- 5 | +/- 6 | |
| Above 15 | Above 529.7 | +/- 4 | +/- 5 | |

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