



COMPRESSOR DATA SHEET



Rotary Compressor: Fixed Speed

Date: August 1, 2019

| | | | |
|--|---|--------------------------|----------------------|
| A | Manufacturer: | Quincy Compressor | |
| B | Base Model: | QOF-150 | |
| C | Cooling: | Air-Cooled | |
| D | Type: | Oil-Free | |
| E | Stages: | 2 | |
| F | Drive Motor Nominal Rating | 150 | hp |
| η_{isen} Full-load package Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure ^e | | 70.3 | Percent ^e |
| G | Rated Capacity at Full Load Operating Pressure ^a | 673 | acfm ^a |
| H | Full Load Operating Pressure ^b | 116 | psig ^b |
| I | Maximum Full Flow Operating Pressure ^c | 125 | psig ^c |
| J | Pressure Ratio ^f | 9.0 | |
| K | Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d | 138.0 | kW ^d |
| Specific Package Input Power at Rated Capacity and Full Load Operating Pressure | | 20.51 | kW/100 cfm |

- 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 G) and Electrical Consumption (Item K) 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.
 - d. Total package input power at other than reported operating points will vary with control strategy.
 - e. Isentropic Efficiency = theoretical power required divided by real measurement performance at same flow and pressure
 **For Variable Speed, this value combines 3 Measured Points: (25% x 40%LOAD) + (50% x 70%LOAD) + (25% x 100%LOAD)
 - f. Pressure Ratio = the ratio of discharge pressure to inlet pressure, as determined at full-load operating pressure
 * Tolerance is specified in ISO 1217, Annex C, as shown in table below:



| Volume Flow Rate at specified conditions | | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|---|--------------------|------------------|--------------------------------|---------------------------|
| $\frac{m^3}{min}$ | $\frac{ft^3}{min}$ | % | % | |
| 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 | |