ISO 1217:2009

# COMPRESSOR DATA SHEET

## Rotary Compressor: Fixed Speed

Quincy COMPRESSOR

Date: July 1, 2020

| | | | | |
|---|---|---|---|---|
| A | Manufacturer: | **Quincy Compressor** | | |
| B | Base Model: | **QOFT-20** | | |
| C | Cooling: | **Air-Cooled** | | |
| D | Type: | **Oil-Free** | | |
| E | Stages: | **2** | | |
| F | Drive Motor Nominal Rating | | **20** | hp |
| $\eta_{isen}$ | Full-load package Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure [e] | | **59.2** | Percent [e] |
| G | Rated Capacity at Full Load Operating Pressure [a] | | **72.9** | acfm [a,g] |
| 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] | | **17.8** | kW [d] |
| L | Total Package Input Power at Zero Flow [g] | | **5.5** | kW [g] |
| | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure | | 24.37 | kW/100 cfm [e] |

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

f. Pressure Ratio = the ratio of discharge pressure to inlet pressure, as determined at full-load operating pressure

g. Tolerance is specified in ISO 1217, Annex C, as shown in table below:

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| Volume Flow Rate at specified conditions | | Volume Flow Rate | Specific Energy Consumption | No Load / Zero Flow Power |
|---|---|---|---|---|
| $m^3$ / min | ft3 / 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 | |