



1217:2009

COMPRESSOR DATA SHEET



Rotary Compressor: Fixed Speed

Date: May 5, 2020

A	Manufacturer:	<b>Quincy Compressor</b>	
B	Base Model:	<b>QOF-20</b>	
C	Cooling:	<b>Air-Cooled</b>	
D	Type:	<b>Oil-Free</b>	
E	Stages:	<b>2</b>	
F	Drive Motor Nominal Rating	<b>20</b>	hp
$\eta_{isen}$	Full-load package Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	<b>59.2</b>	Percent <sup>e</sup>
G	Rated Capacity at Full Load Operating Pressure <sup>a</sup>	<b>73.0</b>	acfm <sup>a</sup>
H	Full Load Operating Pressure <sup>b</sup>	<b>116</b>	psig <sup>b</sup>
I	Maximum Full Flow Operating Pressure <sup>c</sup>	<b>125</b>	psig <sup>c</sup>
J	Pressure Ratio <sup>f</sup>	<b>9.0</b>	
K	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	<b>17.8</b>	kW <sup>d</sup>
	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	<b>24.36</b>	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	