



1217:2009

COMPRESSOR DATA SHEET



Rotary Compressor: Fixed Speed

Date: May 5, 2020

A	Manufacturer:	Quincy Compressor	
B	Base Model:	QOF-50	
C	Cooling:	Air-Cooled	
D	Type:	Oil-Free	
E	Stages:	2	
F	Drive Motor Nominal Rating	50	hp
η_{isen}	Full-load package Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure ^e	65.5	Percent ^e
G	Rated Capacity at Full Load Operating Pressure ^a	196.9	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	43.4	kW ^d
	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	22.03	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	
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	