



1217:2009

COMPRESSOR DATA SHEET



Rotary Compressor: Variable Speed

Date: August 1, 2019

A	Manufacturer:	Quincy Compressor	
B	Base Model:	QOF-100V	
C	Cooling:	Air-Cooled	
D	Type:	Oil-Free	
E	Stages:	2	
F	Drive Motor Nominal Rating	100	hp
G	Rated Capacity at Full Load Operating Pressure <sup>a</sup>	409.1	acfm <sup>a</sup>
H	Full Load Operating Pressure <sup>b</sup>	116	psig <sup>b</sup>
I	Maximum Full Flow Operating Pressure <sup>c</sup>	125	psig <sup>c</sup>
J	Pressure Ratio <sup>f</sup>	9.0	
K	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>	90.3	kW <sup>d</sup>

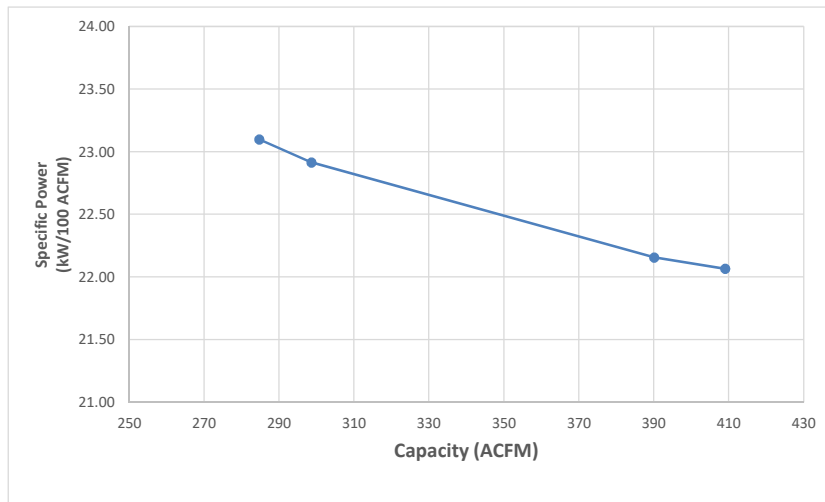
Specific Package Input Power at Rated Capacity and Full Load Operating Pressure	22.07	kW/100 cfm
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Member	Input Power (kW)	Capacity (acfm)	Specific Power
	90.27	409.1	22.07
	86.43	390.1	22.16
	68.42	298.6	22.91
	65.76	284.7	23.10

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

\* 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
m <sup>3</sup> / min	ft <sup>3</sup> / 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	