



## COMPRESSOR DATA SHEET



### Rotary Compressor: Fixed Speed

Date: July 1, 2020

A	Manufacturer:	Quincy Compressor	
B	Base Model:	QOF-100	
C	Cooling:	Air-Cooled	
D	Type:	Oil-Free	
E	Stages:	2	
F	Drive Motor Nominal Rating	100	hp
$\eta_{isen}$	Full-load package Isentropic Efficiency at Rated Capacity and Full Load Operating Pressure <sup>e</sup>	66.1	Percent <sup>e</sup>
G	Rated Capacity at Full Load Operating Pressure <sup>a</sup>	399	acfm <sup>a,g</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>	87.1	kW <sup>d</sup>
L	Total Package Input Power at Zero Flow <sup>g</sup>	25.7	kW <sup>g</sup>
	Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>g</sup>	21.83	kW/100 cfm <sup>e</sup>

#### NOTES:

- 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.
- The operating pressure at which the Capacity (Item G) and Electrical Consumption (Item K) were measured for this data sheet.
- 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.
- Total package input power at other than reported operating points will vary with control strategy.
- Isentropic Efficiency = theoretical power required divided by real measurement performance at same flow and pressure
- 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	

