



**COMPRESSOR DATA SHEET**

**In Accordance With Federal Uniform Test Method for Certain Lubricated Air Compressors**

**Rotary Compressor: Variable Frequency Drive**

**MODEL DATA - FOR COMPRESSED AIR**

1	Manufacturer: <b>Chicago Pneumatic</b>		
2	Model Number: <b>CPVsd 40 30kW</b>	Date:	<b>09/09/20</b>
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled	Type:	<b>Screw</b>
		# of Stages:	<b>1</b>
3*	Full Load Operating Pressure <sup>b</sup>	<b>150</b>	psig <sup>b</sup>
4	Drive Motor Nominal Rating	<b>40</b>	hp
5	Drive Motor Nominal Efficiency	<b>92.4</b>	percent
6	Fan Motor Nominal Rating (if applicable)	<b>1.48</b>	hp
7	Fan Motor Nominal Efficiency	<b>84.0</b>	percent
8*	Input Power (kW)	Capacity (acfm) <sup>a,d</sup>	Specific Power (kW/100 acfm) <sup>d</sup>
	38.3	<b>162</b>	<b>23.60</b>
	32.1	<b>136</b>	<b>23.60</b>
	26.8	<b>114</b>	<b>23.50</b>
	19.2	<b>76</b>	<b>25.80</b>
	16.5	<b>62</b>	<b>26.60</b>
9*	Total Package Input Power at Zero Flow <sup>c, d</sup>	<b>0.0</b>	<b>kW</b>
10	Isentropic Efficiency	<b>68.00</b>	<b>%</b>
11	<p align="center"> <small>Note: Graph is only a visual representation of the data in Section 8            Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35            X-Axis Scale, 0 to 25% over maximum capacity</small> </p>		

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator. Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)



**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) were measured for this data sheet.
- c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
- d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:  
NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

Member

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 17.6	+/- 7	+/- 8	
0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%
1.5 to 15	53 to 529.7	+/- 5	+/- 6	
Above 15	Above 529.7	+/- 4	+/- 5	

ROT 031.1