Gardner Denver

COMPRESSOR DATA SHEET

ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE

bcas BRITISH COMPRESSED AIR SOCIETY

MODEL DATA - FOR COMPRESSED AIR

1	**Manufacturer:**	Gardner Denver

2	**Model No:**	VS7e	**Date:**	**01/08/2024**
	X	**Air Cooled**	**Type:**	**Regulated Speed**
		Water Cooled	**# of Stages:**	**1**
		Other **Please State:**		

3	**Full Load Operating Pressure**	**13.0**	bar g
4	**Drive Motor Nominal Rating**	**7.5**	kW
5	**Drive Motor Nominal Efficiency**	**90.1**	% (percent)
6	**Fan Motor Nominal Rating (if applicable)**	**n/a**	kW
7	**Fan Motor Nominal Efficiency**	**n/a**	% (percent)

8

Range	Input Power (kW)	Capacity (m3/min)	Specific Power (kW/m^3/min)	Isentropic Efficiency (%)
Maximum Speed 100%	**9.76**	**0.83**	**11.76**	**55.83%**
	9.09	**0.74**	**12.28**	**53.44%**
	8.48	**0.66**	**12.85**	**51.10%**
	7.92	**0.58**	**13.66**	**48.08%**
Minimum Speed	**6.97**	**0.41**	**17.00**	**38.62%**

9	Total Package Input Power at Zero Flow	**1.3**	kW

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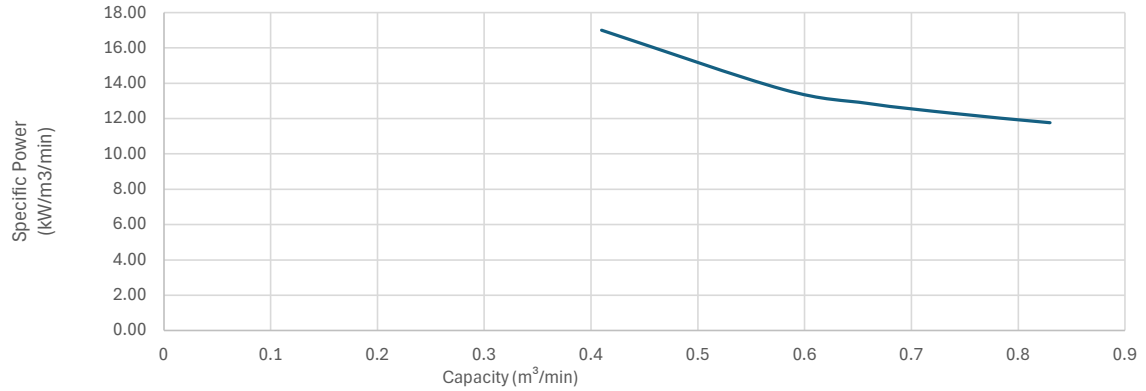

Note: Graph is only a visual representation of the data in Section 8
Note: Y-Axis Scale, 4 to 10, + 1kW/m^3/min increments X-Axis Scale, 0 to 25% over maximum capacity

*For models that are tested in the BCAS Data Sheet & Verification Programme, these items are verified by the third party administrator. Consult BCAS website for a list of participants in the third party verification programme: www.bcas.org.uk

Notes:

a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m^3/min is cubic metres 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 ISO1217, 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 ISO1217, Annex E, as shown in table below:

e. The terms "power" and "energy" are synonymous for purposes of this document.

Volume Flow Rate at specified conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m^3/min	%	%	%
Below 0.5	+/- 7	+/- 8	+/- 10
0.5 to 1.5	+/- 6	+/- 7	
1.5 to 15	+/- 5	+/- 6	
Above 15	+/- 4	+/- 5	