

ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE

MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	Champion			
2	Model No:	FM11RS-8	Date:	13/03/2026	
	X	Air Cooled	Type:	Regulated Speed	
		Water Cooled	# of Stages:	1	
		Other Please State:			
3	Full Load Operating Pressure	8	bar g		
4	Drive Motor Nominal Rating	11	kW		
5	Drive Motor Nominal Efficiency	91.2	% (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/m³/min)	Isentropic Efficiency (%)
	Maximum Speed 100%	13.52	1.56	8.67	58.79%
		10.69	1.27	8.42	60.53%
		9.43	1.13	8.35	61.05%
		8.23	0.96	8.57	59.43%
Minimum Speed	5.01	0.52	9.63	52.88%	
9	Total Package Input Power at Zero Flow	2.3	kW		
10	<p style="font-size: small; text-align: center;">Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 4 to 10, +1kW/m³/min increments X-Axis Scale, 0 to 25% over maximum capacity</p>				

*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; m³/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	