

MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer:	Champion			
2	Model No:	FM7RS		Date:	01/08/2024
	X	Air Cooled		Type:	Regulated Speed
		Water Cooled		# of Stages:	1
		Other	Please State:		
3	Full Load Operating Pressure		10.0	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/m³/min)	Isentropic Efficiency (%)
	Maximum Speed 100%	9.64	0.95	10.15	56.56%
		8.88	0.88	10.09	56.88%
		7.81	0.75	10.41	55.12%
		7.01	0.64	10.95	52.40%
	Minimum Speed	5.45	0.43	12.67	45.28%
9	Total Package Input Power at Zero Flow		2.1	kW	
10	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				

*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	