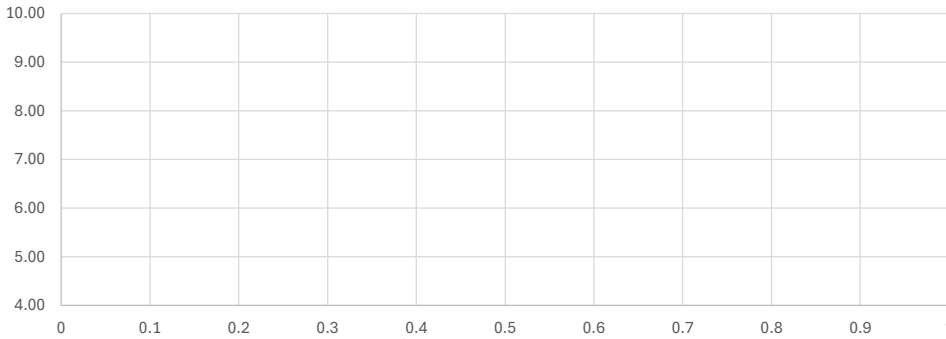


MODEL DATA - FOR COMPRESSED AIR					
1	Manufacturer: <b>Champion</b>				
2	Model No:	<b>FM7RS</b>		Date:	<b>01.08.2024</b>
	X	Air Cooled		Type:	<b>Regulated Speed</b>
		Water Cooled		# of Stages:	<b>1</b>
		Other	Please State:		
3	Full Load Operating Pressure		<b>10</b>	bar g	
4	Drive Motor Nominal Rating		<b>7.5</b>	kW	
5	Drive Motor Nominal Efficiency		<b>90.1</b>	% (percent)	
6	Fan Motor Nominal Rating (if applicable)		<b>n/a</b>	kW	
7	Fan Motor Nominal Efficiency		<b>n/a</b>	% (percent)	
8	Range	Input Power (kW)	Capacity (m <sup>3</sup> /min)	Specific Power (kW/m <sup>3</sup> /min)	Isentropic Efficiency (%)
	Maximum Speed 100%	<b>9.64</b>	<b>0.95</b>	<b>10.15</b>	<b>56.56%</b>
		<b>8.86</b>	<b>0.86</b>	<b>10.30</b>	<b>55.71%</b>
		<b>7.81</b>	<b>0.75</b>	<b>10.41</b>	<b>55.12%</b>
		<b>7.01</b>	<b>0.64</b>	<b>10.95</b>	<b>52.40%</b>
	Minimum Speed	<b>5.45</b>	<b>0.43</b>	<b>12.67</b>	<b>45.28%</b>
9	Total Package Input Power at Zero Flow		<b>2.1</b>	kW	
10	<div style="text-align: center;">  <p>Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 4 to 10, + 1kW/m<sup>3</sup>/min increments X-Axis Scale, 0 to 25% over maximum capacity</p> </div>				

\*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](http://www.bcas.org.uk)

**Notes:**

- a. Measured at the discharge terminal point of the compressor in accordance with ISO1217, Annex E; m<sup>3</sup>/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 <sup>3</sup> /min	%	%	%
Below 0.5	+/- 7	+/- 8	+/- 10
0.5 to 1.5	+/- 6	+/- 7	
1.5 to 15	+/- 5	+/- 6	
Above 15	+/- 4	+/- 5	