

**ROTARY COMPRESSOR: FIXED SPEED**

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer:	Champion	
2	Model No:	FM7	Date: 01.08.2024
	X	Air Cooled	Type: Fix Speed
		Water Cooled	# of Stages: 1
	Other	Please State:	
3*	Rated Capacity at Full Load Operating Pressure <sup>a,e</sup>		0.97 m <sup>3</sup> /min <sup>a,e</sup>
4*	Full Load Operating Pressure <sup>b</sup>		10.00 bar g <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>		10.50 bar g <sup>b</sup>
6	Drive Motor Nominal Rating		7.50 kW
7	Drive Motor Nominal Efficiency		90.10 % (percent)
8	Fan Motor Nominal Rating (if applicable)		n/a kW
9	Fan Motor Nominal Efficiency		n/a % (percent)
10*	Total Package Input Power at Zero Flow <sup>e</sup>		2.70 kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>		8.49 kW <sup>d</sup>
12	Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>		8.75 kW/m <sup>3</sup> /min <sup>e</sup>
13	Isentropic Efficiency		65.60 % (percent)

\*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:**

- 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.
- The operating pressure at which the capacity (item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- Maximum pressure attainable at full flow, usually the unload pressure setting for load / no load control or the maximum pressure attainable before capacity control begins. May require additional power.
- Total package input power at other than reported operating points will vary with control strategy.
- Tolerance is specified in ISO 1217, Annex C, as shown in table below:  
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	

This form was developed by the British Compressed Air Society (BCAS) for the use of its members participating in the DS&VP. BCAS has not independently verified the reported data.