

ROTARY COMPRESSOR: FIXED SPEED

MODEL DATA - FOR COMPRESSED AIR			
1	Manufacturer:	Champion	
2	Model No:	FM15-7B	Date: 20/03/2026
	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>		2.64 m <sup>3</sup> /min <sup>a,e</sup>
4*	Full Load Operating Pressure <sup>b</sup>		7.00 bar g <sup>b</sup>
5	Maximum Full Flow Operating Pressure <sup>c</sup>		7.50 bar g <sup>b</sup>
6	Drive Motor Nominal Rating		15.00 kW
7	Drive Motor Nominal Efficiency		91.90 % (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>		6.05 kW <sup>e</sup>
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>		18.44 kW <sup>d</sup>
12	Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>		6.98 kW/m <sup>3</sup> /min <sup>e</sup>
13	Isentropic Efficiency		67.80 % (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:**

- 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 3) and Electrical Consumption (Item 11) were measured for this data sheet.
- c. 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.
- d. Total package input power at other than reported operating points will vary with control strategy.
- e. 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	