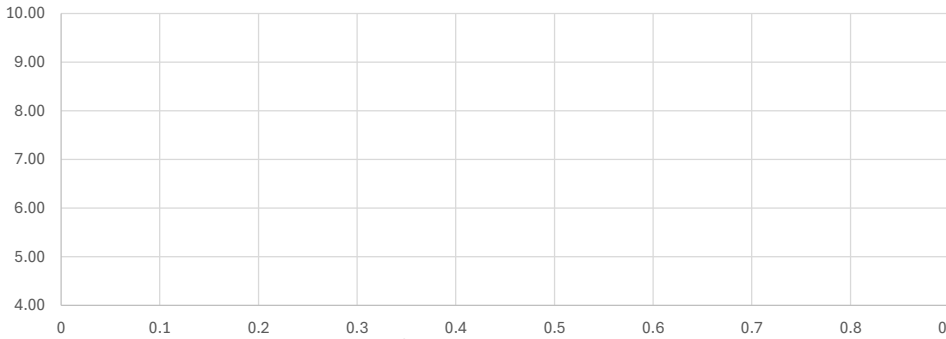


| MODEL DATA - FOR COMPRESSED AIR |                                                                                                                                                                                                                                                                                                                                                     |                  |                                |                                         |                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------------------------|-----------------------------------------|---------------------------|
| <b>1</b>                        | Manufacturer:                                                                                                                                                                                                                                                                                                                                       | Champion         |                                |                                         |                           |
| <b>2</b>                        | Model No:                                                                                                                                                                                                                                                                                                                                           | FM7RS            |                                | Date:                                   | 01.08.2024                |
|                                 | X                                                                                                                                                                                                                                                                                                                                                   | Air Cooled       |                                | Type:                                   | Regulated Speed           |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | Water Cooled     |                                | # of Stages:                            | 1                         |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | Other            | Please State:                  |                                         |                           |
| <b>3</b>                        | Full Load Operating Pressure                                                                                                                                                                                                                                                                                                                        | 13               | bar g                          |                                         |                           |
| <b>4</b>                        | Drive Motor Nominal Rating                                                                                                                                                                                                                                                                                                                          | 7.5              | kW                             |                                         |                           |
| <b>5</b>                        | Drive Motor Nominal Efficiency                                                                                                                                                                                                                                                                                                                      | 90.1             | % (percent)                    |                                         |                           |
| <b>6</b>                        | Fan Motor Nominal Rating (if applicable)                                                                                                                                                                                                                                                                                                            | n/a              | kW                             |                                         |                           |
| <b>7</b>                        | Fan Motor Nominal Efficiency                                                                                                                                                                                                                                                                                                                        | n/a              | % (percent)                    |                                         |                           |
| <b>8</b>                        | Range                                                                                                                                                                                                                                                                                                                                               | Input Power (kW) | Capacity (m <sup>3</sup> /min) | Specific Power (kW/m <sup>3</sup> /min) | Isentropic Efficiency (%) |
|                                 | Maximum Speed 100%                                                                                                                                                                                                                                                                                                                                  | 10.03            | 0.77                           | 13.03                                   | 50.40%                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | 8.87             | 0.688                          | 12.89                                   | 50.92%                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | 7.96             | 0.58                           | 13.72                                   | 47.84%                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | 7.28             | 0.49                           | 14.86                                   | 44.19%                    |
|                                 | Minimum Speed                                                                                                                                                                                                                                                                                                                                       | 6.96             | 0.45                           | 15.47                                   | 42.45%                    |
| <b>9</b>                        | Total Package Input Power at Zero Flow                                                                                                                                                                                                                                                                                                              | 2.2              | kW                             |                                         |                           |
| <b>10</b>                       | <div style="text-align: center;">  <p style="font-size: small;">Note: Graph is only a visual representation of the data in Section 8<br/>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                       |                           |