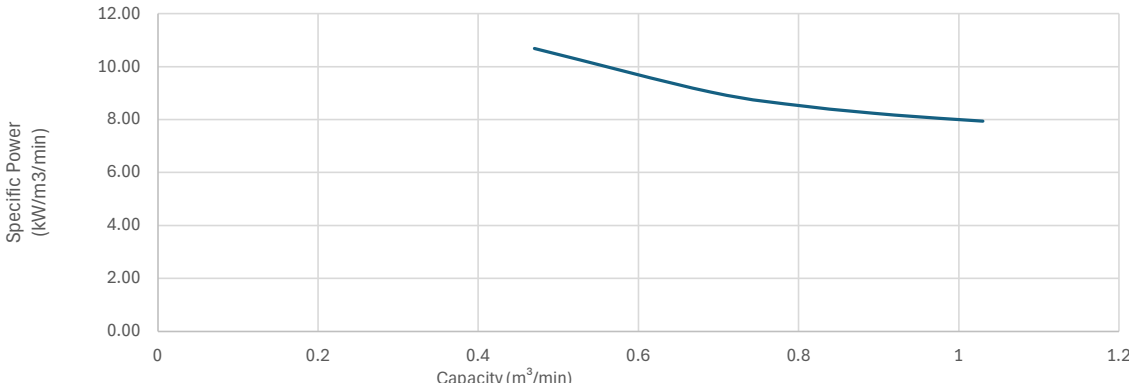


**ROTARY COMPRESSOR: VARIABLE SPEED / FREQUENCY DRIVE**

| MODEL DATA - FOR COMPRESSED AIR |                                                                                                                                                                                                                                                                                                                                                     |                         |                                     |                                              |                                  |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------|----------------------------------------------|----------------------------------|
| <b>1</b>                        | <b>Manufacturer:</b>                                                                                                                                                                                                                                                                                                                                | Ingersoll Rand          |                                     |                                              |                                  |
| <b>2</b>                        | <b>Model No:</b>                                                                                                                                                                                                                                                                                                                                    | RSe7.5ne                |                                     | <b>Date:</b>                                 | 01/08/2024                       |
|                                 | <b>X</b>                                                                                                                                                                                                                                                                                                                                            | Air Cooled              |                                     | <b>Type:</b>                                 | Regulated Speed                  |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | Water Cooled            |                                     | <b># of Stages:</b>                          | 1                                |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | Other                   | Please State:                       |                                              |                                  |
| <b>3</b>                        | <b>Full Load Operating Pressure</b>                                                                                                                                                                                                                                                                                                                 |                         | <b>8.0</b>                          | bar g                                        |                                  |
| <b>4</b>                        | <b>Drive Motor Nominal Rating</b>                                                                                                                                                                                                                                                                                                                   |                         | <b>7.5</b>                          | kW                                           |                                  |
| <b>5</b>                        | <b>Drive Motor Nominal Efficiency</b>                                                                                                                                                                                                                                                                                                               |                         | <b>90.1</b>                         | % (percent)                                  |                                  |
| <b>6</b>                        | <b>Fan Motor Nominal Rating (if applicable)</b>                                                                                                                                                                                                                                                                                                     |                         | <b>n/a</b>                          | kW                                           |                                  |
| <b>7</b>                        | <b>Fan Motor Nominal Efficiency</b>                                                                                                                                                                                                                                                                                                                 |                         | <b>n/a</b>                          | % (percent)                                  |                                  |
| <b>8</b>                        | <b>Range</b>                                                                                                                                                                                                                                                                                                                                        | <b>Input Power (kW)</b> | <b>Capacity (m<sup>3</sup>/min)</b> | <b>Specific Power (kW/m<sup>3</sup>/min)</b> | <b>Isentropic Efficiency (%)</b> |
|                                 | <b>Maximum Speed 100%</b>                                                                                                                                                                                                                                                                                                                           | <b>8.18</b>             | <b>1.03</b>                         | <b>7.94</b>                                  | <b>64.15%</b>                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | <b>7.52</b>             | <b>0.92</b>                         | <b>8.17</b>                                  | <b>62.33%</b>                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | <b>6.88</b>             | <b>0.81</b>                         | <b>8.49</b>                                  | <b>59.98%</b>                    |
|                                 |                                                                                                                                                                                                                                                                                                                                                     | <b>6.24</b>             | <b>0.69</b>                         | <b>9.04</b>                                  | <b>56.34%</b>                    |
|                                 | <b>Minimum Speed</b>                                                                                                                                                                                                                                                                                                                                | <b>5.02</b>             | <b>0.47</b>                         | <b>10.68</b>                                 | <b>47.70%</b>                    |
| <b>9</b>                        | <b>Total Package Input Power at Zero Flow</b>                                                                                                                                                                                                                                                                                                       |                         | <b>1.3</b>                          | 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                       |                           |