

| MODEL DATA - FOR COMPRESSED AIR |                                                                                           |                          |              |                                     |
|---------------------------------|-------------------------------------------------------------------------------------------|--------------------------|--------------|-------------------------------------|
| 1                               | Manufacturer:                                                                             | HPC - KAESER COMPRESSORS |              |                                     |
| 2                               | Model No:                                                                                 | ASD50                    | Date:        | 01.09.2025                          |
|                                 | X                                                                                         | Air Cooled               | Type:        | Screw                               |
|                                 |                                                                                           | Water Cooled             | # of Stages: | 1                                   |
|                                 | Other                                                                                     | Please State:            |              |                                     |
| 3*                              | Rated Capacity at Full Load Operating Pressure <sup>a,e</sup>                             |                          | 4.58         | m <sup>3</sup> /min <sup>a,e</sup>  |
| 4*                              | Full Load Operating Pressure <sup>b</sup>                                                 |                          | 7.50         | bar g <sup>b</sup>                  |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>                                         |                          | 8.50         | bar g <sup>b</sup>                  |
| 6                               | Drive Motor Nominal Rating                                                                |                          | 25.00        | kW                                  |
| 7                               | Drive Motor Nominal Efficiency                                                            |                          | 94.20        | % (percent)                         |
| 8                               | Fan Motor Nominal Rating (if applicable)                                                  |                          | 0.55         | kW                                  |
| 9                               | Fan Motor Nominal Efficiency                                                              |                          | 73.70        | % (percent)                         |
| 10*                             | Total Package Input Power at Zero Flow <sup>e</sup>                                       |                          | 6.80         | kW <sup>e</sup>                     |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> |                          | 27.60        | kW <sup>d</sup>                     |
| 12                              | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    |                          | 6.03         | kW/m <sup>3</sup> /min <sup>e</sup> |
| 13                              | Isentropic Efficiency                                                                     |                          | 81.60        | % (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.