

# COMPRESSOR DATA SHEET

## Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR |                                                                                                                                                                   |                                                                                                                                       |                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 1                               | Manufacturer: <b>Sullair Corp</b>                                                                                                                                 |                                                                                                                                       |                         |
| 2                               | Model Number: <b>LS160-100XHWC</b><br>Air-cooled <input checked="" type="checkbox"/> Water-cooled<br><input checked="" type="checkbox"/> Oil-injected    Oil-free | # of Stages: <b>1</b><br><br><div style="display: flex; justify-content: space-between;"> <span>VALUE</span> <span>UNIT</span> </div> |                         |
| 3                               | Rated Capacity at Full Load Operating Pressure <sup>a, f</sup>                                                                                                    | <b>333</b>                                                                                                                            | acfm <sup>a, f</sup>    |
| 4                               | Full Load Operating Pressure <sup>b</sup>                                                                                                                         | <b>175</b>                                                                                                                            | psig <sup>b</sup>       |
| 5                               | Maximum Full Flow Operating Pressure <sup>c</sup>                                                                                                                 | <b>175</b>                                                                                                                            | psig <sup>c</sup>       |
| 6                               | Drive Motor Nameplate Rating                                                                                                                                      | <b>100</b>                                                                                                                            | hp                      |
| 7                               | Drive Motor Nameplate Nominal Efficiency                                                                                                                          | <b>95.4</b>                                                                                                                           | percent                 |
| 8                               | Fan Motor Nameplate Rating (if applicable)                                                                                                                        | -                                                                                                                                     | hp                      |
| 9                               | Fan Motor Nameplate Nominal Efficiency                                                                                                                            | -                                                                                                                                     | percent                 |
| 10                              | Total Package Input Power at Zero Flow <sup>e</sup>                                                                                                               | <b>21.1</b>                                                                                                                           | kW <sup>e</sup>         |
| 11                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>                                                                         | <b>84.4</b>                                                                                                                           | kW <sup>d</sup>         |
| 12                              | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>g</sup>                                                                      | <b>25.35</b>                                                                                                                          | kW/100 cfm <sup>g</sup> |

**NOTES:**

- a. Measured at the discharge terminal point of the compressor package in accordance with the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217). ACFM is actual cubic feet per minute at inlet conditions.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) 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 the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217)
- f, g. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

| Volume Flow Rate<br>at specified conditions |                             | Volume Flow Rate <sup>f</sup> | Specific Energy Consumption <sup>g</sup> |
|---------------------------------------------|-----------------------------|-------------------------------|------------------------------------------|
| <u>m<sup>3</sup> / min</u>                  | <u>ft<sup>3</sup> / min</u> | %                             | %                                        |
| Below 0.5                                   | Below 15                    | +/- 7                         | +/- 8                                    |
| 0.5 to 1.5                                  | 15 to 50                    | +/- 6                         | +/- 7                                    |
| 1.5 to 15                                   | 50 to 500                   | +/- 5                         | +/- 6                                    |
| Above 15                                    | Above 500                   | +/- 4                         | +/- 5                                    |

Member



This form was developed by the Compressed Air and Gas Institute for the use of its members. CAGI has not independently verified the reported data.