

# COMPRESSOR DATA SHEET



In Accordance with Federal Uniform Test Method for Certain Lubricated Air Compressors

Rotary Compressor: Fixed Speed

## MODEL DATA - FOR COMPRESSED AIR

|     |                                                                                           |                        |                         |
|-----|-------------------------------------------------------------------------------------------|------------------------|-------------------------|
| 1   | Manufacturer: <b>Gardner Denver</b>                                                       |                        |                         |
| 2   | Model Number: <b>L45-60hp-110psi</b>                                                      | Date: <b>2/18/2022</b> |                         |
|     | <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled      | Type: <b>Screw</b>     |                         |
|     |                                                                                           | # of Stages: <b>1</b>  |                         |
| 3*  | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                            | <b>269.0</b>           | acfm <sup>a, e</sup>    |
| 4*  | Full Load Operating Pressure <sup>b</sup>                                                 | <b>110</b>             | psig <sup>b</sup>       |
| 5   | Maximum Full Flow Operating Pressure <sup>c</sup>                                         | <b>117</b>             | psig <sup>c</sup>       |
| 6   | Drive Motor Nominal Rating                                                                | <b>60</b>              | hp                      |
| 7   | Drive Motor Nominal Efficiency                                                            | <b>93</b>              | percent                 |
| 8   | Fan Motor Nominal Rating (if applicable)                                                  | <b>2</b>               | hp                      |
| 9   | Fan Motor Nominal Efficiency                                                              | <b>88.5</b>            | percent                 |
| 10* | Total Package Input Power at Zero Flow <sup>e</sup>                                       | <b>16.8</b>            | kW <sup>e</sup>         |
| 11  | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup> | <b>53.87</b>           | kW <sup>d</sup>         |
| 12* | Package Specific Power at Rated Capacity and Full Load Operating Pressure <sup>e</sup>    | <b>20.03</b>           | kW/100 cfm <sup>e</sup> |
| 13  | Isentropic Efficiency                                                                     | <b>69.97</b>           | Percent                 |

\*For models that are tested in the CAGI Performance Verification Program, these items are verified by the third party administrator.

Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://www.cagi.org)

### NOTES:

- Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex C; ACFM is actual cubic feet 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:

NOTE: The terms "power" and "energy" are synonymous for purposes of this document.

| Volume Flow Rate<br>at specified conditions |                       | Volume Flow Rate | Specific Energy<br>Consumption | No Load / Zero Flow<br>Power |
|---------------------------------------------|-----------------------|------------------|--------------------------------|------------------------------|
| m <sup>3</sup> / min                        | ft <sup>3</sup> / min | %                | %                              | %                            |
| Below 0.5                                   | Below 17.6            | +/- 7            | +/- 8                          | +/- 10%                      |
| 0.5 to 1.5                                  | 17.6 to 53            | +/- 6            | +/- 7                          |                              |
| 1.5 to 15                                   | 53 to 529.7           | +/- 5            | +/- 6                          |                              |
| Above 15                                    | Above 529.7           | +/- 4            | +/- 5                          |                              |



ROT 030.1

12/19 Rev 3 This form was developed by the Compressed Air and Gas Institute for the use of its members participating in the PVP. CAGI has not independently verified the reported data.

Configurator: L30-45E