



## COMPRESSOR DATA SHEET

### Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR |                                                                                                                        |                       |                         |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|
| 1                               | Manufacturer: <b>Sullair</b>                                                                                           |                       |                         |
| 2                               | Model Number: <b>V120-50XH</b><br><br>Air-cooled<br><b>X</b> Water-cooled<br><br><b>X</b> Oil-injected<br><br>Oil-free | # of Stages: <b>1</b> | VALUE      UNIT         |
| 3                               | Rated Capacity at Full Load Operating Pressure <sup>a, e</sup>                                                         | <b>180</b>            | acfm <sup>a, e</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>50</b>             | hp                      |
| 7                               | Drive Motor Nameplate Nominal Efficiency                                                                               | <b>95.0%</b>          | percent                 |
| 8                               | Fan Motor Nameplate Rating (if applicable)                                                                             | -                     | hp                      |
| 9                               | Fan Motor Nameplate Nominal Efficiency                                                                                 | -                     | percent                 |
| 10                              | Total Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>d</sup>                              | <b>45.2</b>           | kW <sup>d</sup>         |
| 11                              | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure <sup>f</sup>                           | <b>25.11</b>          | kW/100 cfm <sup>f</sup> |

**NOTES:**

- 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.
- The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 10) 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.
- f. Tolerance is specified in the CAGI/PNEUROP PN2CPTC2 Test Code (Annex C to ISO 1217) as follows:

Member

| Volume Flow Rate at specified conditions |                             | Volume Flow Rate <sup>e</sup> | Specific Energy Consumption <sup>f</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                                    |



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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.

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