

COMPRESSOR DATA SHEET

Rotary Screw Compressor

| MODEL DATA - FOR COMPRESSED AIR | | | |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|
| 1 | Manufacturer: Sullair Corp | | |
| 2 | Model Number: 1809e <input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled <input checked="" type="checkbox"/> Oil-injected <input type="checkbox"/> Oil-free | # of Stages: 1 | VALUE UNIT |
| 3 | Rated Capacity at Full Load Operating Pressure ^{a, f} | 99.3 | acfm ^{a, f} |
| 4 | Full Load Operating Pressure ^b | 125 | psig ^b |
| 5 | Maximum Full Flow Operating Pressure ^c | 125 | psig ^c |
| 6 | Drive Motor Nameplate Rating | 25 | hp |
| 7 | Drive Motor Nameplate Nominal Efficiency | 92.4 | percent |
| 8 | Fan Motor Nameplate Rating (if applicable) | 1.0 | hp |
| 9 | Fan Motor Nameplate Nominal Efficiency | 82.5 | percent |
| 10 | Total Package Input Power at Zero Flow ^e | 7.0 | kW ^e |
| 11 | Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d | 23.3 | kW ^d |
| 12 | Specific Package Input Power at Rated Capacity and Full Load Operating Pressure ^g | 23.46 | kW/100 cfm ^g |

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 at specified conditions | | Volume Flow Rate ^f | Specific Energy Consumption ^g |
|------------------------------------------|-----------------------------|-------------------------------|------------------------------------------|
| <u>m³ / min</u> | <u>ft³ / 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 |



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.