

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:	Gardner Denver	
2	Model Number:	STG2-50hp-125psi	Date: 1/4/2021
	<input checked="" type="checkbox"/> Air-cooled <input type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure ^{a, e}	233.0	acfm ^{a, e}
4*	Full Load Operating Pressure ^b	125	psig ^b
5	Maximum Full Flow Operating Pressure ^c	125	psig ^c
6	Drive Motor Nominal Rating	50	hp
7	Drive Motor Nominal Efficiency	94.5	percent
8	Fan Motor Nominal Rating (if applicable)	1.2	hp
9	Fan Motor Nominal Efficiency	82.5	percent
10*	Total Package Input Power at Zero Flow ^e	12.2	kW ^e
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure ^d	46.00	kW ^d
12*	Package Specific Power at Rated Capacity and Full Load Operating Pressure ^e	19.74	kW/100 cfm ^e
13	Isentropic Efficiency	76.08	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

NOTES:

- a. 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.
- b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) 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 ISO 1217, Annex C, as shown in table below:

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



Member

Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
m ³ / min	ft ³ / 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 2 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: ST40-60G2C