

**COMPRESSOR DATA SHEET**

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

**Rotary Compressor: Fixed Speed**

<b>MODEL DATA - FOR COMPRESSED AIR</b>			
1	Manufacturer: Atlas Copco		
2	Model Number:	GA 90 + W-8.6	Date: 06-29-2020
	<input type="checkbox"/> Air-cooled <input checked="" type="checkbox"/> Water-cooled		Type: Screw
			# of Stages: 1
3*	Rated Capacity at Full Load Operating Pressure*(a,e)	567.4	(acfm) *(a,e)
4*	Full Load Operating Pressure*(b)	125.0	psig*(b)
5	Maximum Full Flow Operating Pressure*(c)	132.0	psig*(c)
6	Drive Motor Nominal Rating	120.7	hp
7	Drive Motor Nominal Efficiency	96.2	percent
8	Fan Motor Nominal Rating (if applicable)	0.5	hp
9	Fan Motor Nominal Efficiency	31.0	percent
10*	Total Package Input Power at Zero Flow*(e)	20.9	kW*(e)
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure*(d)	97.6	kW*(d)
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure*(e)	17.2	kW/100 cfm*(e)
13	Isentropic Efficiency	87.3	Percent

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

Consult CAGI website for a list of participants in the third party verification program: [www.cagi.org](http://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.
  - Member b. The operating pressure at which the Capacity (Item 3) and Electrical Consumption (Item 11) were measured for this data sheet.
  - c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%, manufacturer may state "not significant" or "0" on the test report.
  - d. Total package input power at other than reported operating points will vary with control strategy.
  - e. Tolerance is specified in ISO 1217, Annex E, as shown in table below:  
NOTE: The terms "power" and "energy" are synonymous for purposes of this document.



Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
<u>m3 / min</u>	<u>ft3 / min</u>	%	%	+/- 10
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	

ROT 030.1

12/19 Rev 3

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.