

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: Atlas Copco		
2	Model Number: G90 W-10	Date: 05-15-2024	
	☐ Air-cooled ☒ Water-cooled	Type: Screw	
	# of Stages: 1		
3*	Rated Capacity at Full Load Operating Pressure*(a,e)	533.3	(acfm) *(a,e)
4*	Full Load Operating Pressure*(b)	145.0	psig*(b)
5	Maximum Full Flow Operating Pressure*(c)	145.0	psig*(c)
6	Drive Motor Nominal Rating	120.7	hp
7	Drive Motor Nominal Efficiency	95.0	percent
8	Fan Motor Nominal Rating (if applicable)	1.0	hp
9	Fan Motor Nominal Efficiency	40.6	percent
10*	Total Package Input Power at Zero Flow*(e)	27.2	kW*(e)
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure*(d)	108.6	kW*(d)
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure*(e)	20.4	kW/100 cfm*(e)
13	Isentropic Efficiency	80.1	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

- 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.
 - 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.
 - Total package input power at other than reported operating points will vary with control strategy.
 - 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.