

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: GA 180 W-8.6	Date:	03-08-2022
	<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)	1,137.2	(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 & 120.7	hp
7	Drive Motor Nominal Efficiency	96.2 & 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)	42.0	kW*(e)
11	Total Package Input Power at Rated Capacity and Full Load Operating Pressure*(d)	197.5	kW*(d)
12*	Specific Package Input Power at Rated Capacity and Full Load Operating Pressure*(e)	17.4	kW/100 cfm*(e)
13	Isentropic Efficiency	86.4	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:
- 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>	%	%	
Below 0.5	Below 15	+/- 7	+/- 8	+/- 10
0.5 to 1.5		+/- 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.