

COMPRESSOR DATA SHEET

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

Rotary Compressor: Variable Frequency Drive

1	Manufacturer:	Atlas Copco				
	Model Number:	GA37LVSD+	Date:	6/29/2020		
2	X Air-cooled	Water-cooled	Туре:	Screw		
			# of Stages:	1		
3	Full Load Operating	g Pressure ^b	102	psig ^b		
4	Drive Motor Nomin	nal Rating	50	hp		
5	Drive Motor Nomin	nal Efficiency	96	percent		
б	Fan Motor Nomina	l Rating (if applicable)	1.1	hp		
7	Fan Motor Nomina	l Efficiency	73	percent		
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d		
	45.0	Max	279.5	16.1		
)*	34.9		215.4	16.2		
}*	29.3		178.4	16.4		
	20.9		120.9	17.3		
	15.7		84.7	18.5		
	11.4	Min	54.7	20.8		
)*		t Power at Zero Flow ^{c, d}	1.1	kW		
0	Isentropic Effecience	су	81.27	%		
	:	35.0				
	:	30.0				
11	25.0 (WA/100 Yorking Specific Bower 15.0					
		0.0	25.0	50.0		

0.0

50.0

Capacity (ACFM)

Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity

*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:

Member

CA

www.cagi.org

NOTES: a. Measured at the discharge terminal point of the compressor package in accordance with ISO 1217, Annex E; ACFM is actual cubic feet per minute at inlet conditions.

b. The operating pressure at which the Capacity (Item 8) and Electrical Consumption (Item 8) 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. 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.

Compressed Air & Gas Institute		ne Flow Rate fied conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power		
	$\underline{m^3 / \min}$	<u>ft3 / min</u>	%	%			
	Below 0.5	Below 17.6	+/- 7	+/- 8			
ROT 030.1	0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%		
	1.5 to 15	53 to 529.7	+/- 5	+/- 6			
	Above 15	Above 529.7	+/- 4	+/- 5			
12/19 Rev 3 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.							



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1	Manufacturer:	Atlas Copco	- FOR COMPRESSED		
-	Model Number:	GA37LVSD+	Date:	6/29/2020	
2	X Air-cooled	Water-cooled	Type:	Screw	
			# of Stages:	1	
3	Full Load Operating	g Pressure ^b	138	psig ^b	
4	Drive Motor Nomir	al Rating	50	hp	
5	Drive Motor Nomir	al Efficiency	96	percent	
6	Fan Motor Nominal	Rating (if applicable)	1.1	hp	
7	Fan Motor Nominal	Efficiency	73	percent	
	Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	47.1	Max	246.0	19.1	
*	41.0		211.9	19.3	
) [*]	34.7		176.5	19.7	
	24.8		120.7	20.5	
	18.6		84.2	22.1	
	13.3	Min	52.5	25.3	
)*		t Power at Zero Flow ^{c, d}	1.1	kW	
0	Isentropic Effecience	су	79.43	%	
		35.0			
	Specific Power (kW/100 ACFM)	25.0			
1	20.0 15.0				
		10.0			

0.0

50.0

Capacity (ACFM)

Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity

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ROT 030.1	0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%		
	1.5 to 15	53 to 529.7	+/- 5	+/- 6			
	Above 15	Above 529.7	+/- 4	+/- 5			
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Rotary Compressor: Variable Frequency Drive

1 Manufacturer: Atlas Copco 4 Model Number: GA37LVSD+ Date: 6/29/2020 2 X Air-cooled Type: Screw $#$ of Stages: 1 1 3 Full Load Operating Pressure ^b 181 psig ^b 4 Drive Motor Nominal Rating 50 hp 5 Drive Motor Nominal Rating (if applicable) 1.1 hp 7 Fan Motor Nominal Efficiency 73 percent 6 Fan Motor Nominal Efficiency 73 percent 7 Fan Motor Nominal Efficiency 73 percent 8* Input Power (kW) Capacity (acfm) ^{s.d} Specific Power (kW/100 acfm) ^d 8* 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{f.d} 1.1 kW 10 Isentropic Effeciency 3.0 3.0 3.0 3.0 1.0 3.0 3.0 3.				- FOR COMPRESSEE) AIK	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1	Manufacturer:	Atlas Copco			
2Image: Constraint of the state		Model Number:	GA37LVSD+	Date:	6/29/2020	
3 Full Load Operating Pressure ^b 181 $psig^b$ 4 Drive Motor Nominal Rating 50 hp 5 Drive Motor Nominal Efficiency 96 percent 6 Fan Motor Nominal Efficiency 73 percent 7 Fan Motor Nominal Efficiency 73 percent 8* Input Power (kW) Capacity (acfm) ^{a.d} Specific Power (kW/100 acfm) ^d 8* 41.3 173.6 23.8 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{6, d} 1.1 kW 10 Isentropic Effeciency 73.46 % 11 10 10 10 10 10	2	X Air-cooled	Water-cooled	Туре:	Screw	
4 Drive Motor Nominal Rating 50 hp 5 Drive Motor Nominal Efficiency 96 percent 6 Fan Motor Nominal Rating (if applicable) 1.1 hp 7 Fan Motor Nominal Efficiency 73 percent 7 Fan Motor Nominal Efficiency 73 percent 8* Input Power (kW) Capacity (acfm) ^{a,d} Specific Power (kW/100 acfm) ^d 8* 48.2 Max 209.2 23.0 41.3 173.6 23.8 33.6 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c,d} 1.1 kW 10 Isentropic Effeciency 73.46 %				# of Stages:	1	
5 Drive Motor Nominal Efficiency 96 percent 6 Fan Motor Nominal Rating (if applicable) 1.1 hp 7 Fan Motor Nominal Efficiency 73 percent 7 Fan Motor Nominal Efficiency 73 percent 8* Input Power (kW) Capacity (acfm) ^{a,d} Specific Power (kW/100 acfm) ^d 8* 48.2 Max 209.2 23.0 41.3 173.6 23.8 37.6 30.1 118.1 25.5 26.3 30.1 118.1 25.5 26.5 26.3 99.1 26.5 26.5 26.3 99.1 26.5 30.1 10 Isentropic Effeciency 73.46 % 10 Isentropic Effeciency 25.0 30.0 30.0 30.0 25.0 25.0 30.0 30.0 30.0 11 MW 30.0 30.0 30.0 30.0 30.0	3	Full Load Operatin	ng Pressure ^b	181	$psig^b$	
6 Fan Motor Nominal Rating (if applicable) 1.1 hp 7 Fan Motor Nominal Efficiency 73 percent Input Power (kW) Capacity (acfm) ^{a.d} Specific Power (kW/100 acfm) ^d 8* 48.2 Max 209.2 23.0 48.2 Max 209.2 23.0 41.3 173.6 23.8 8* 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{C, d} 1.1 kW 10 Isentropic Effeciency 73.46 %	4	Drive Motor Nomi	nal Rating	50		
7 Fan Motor Nominal Efficiency 73 percent Input Power (kW) Capacity (acfm) ^{a,d} Specific Power (kW/100 acfm) ^d 48.2 Max 209.2 23.0 41.3 173.6 23.8 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c,d} 1.1 kW 10 Isentropic Effeciency 73.46 %	5	Drive Motor Nomi	nal Efficiency	96	percent	
$8^{*} \frac{1}{11} \frac{1}$	6	Fan Motor Nomina	al Rating (if applicable)	1.1	hp	
48.2 Max 209.2 23.0 41.3 173.6 23.8 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c, d} 1.1 kW 10 Isentropic Effeciency 73.46 %	7	Fan Motor Nomina	al Efficiency	73	percent	
$8^{*} = \frac{41.3}{37.6} = \frac{173.6}{155.2} = \frac{23.8}{24.2}$ $30.1 = 118.1 = 25.5$ $26.3 = 99.1 = 26.5$ $22.6 = Min = 81.0 = 27.9$ 9* Total Package Input Power at Zero Flow ^{c, d} 1.1 = KW 10 = Isentropic Effeciency = 73.46 = % $11 = 110 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 10000 = 100000 = 10000 = 100000 = 10000 = 100000 = 100000 = 100000 = 1$		Input Power (kW)		Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
8* 37.6 155.2 24.2 30.1 118.1 25.5 26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c, d} 1.1 kW 10 Isentropic Effeciency 73.46 %		48.2	48.2 Max		23.0	
$11 \qquad \begin{array}{ c c c c c c } \hline & 37.6 & 155.2 & 24.2 \\ \hline & 30.1 & 118.1 & 25.5 \\ \hline & 26.3 & 99.1 & 26.5 \\ \hline & 22.6 & Min & 81.0 & 27.9 \\ \hline & 22.6 & Min & 81.0 & 27.9 \\ \hline & 73.46 & & & & & \\ \hline & & & & & & & & \\ \hline & & & &$	0.*	41.3		173.6	23.8	
26.3 99.1 26.5 22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c, d} 1.1 kW 10 Isentropic Effeciency 73.46 %	8*	37.6		155.2	24.2	
22.6 Min 81.0 27.9 9* Total Package Input Power at Zero Flow ^{c, d} 1.1 kW 10 Isentropic Effeciency 73.46 %		30.1	l	118.1	25.5	
9* Total Package Input Power at Zero Flow ^{c, d} 1.1 kW 10 Isentropic Effeciency 73.46 %		26.3	3	99.1	26.5	
Iotal Fackage input Fower at Zero Frow III INV 10 Isentropic Effeciency 73.46 % 10 Isentropic Effeciency 25.0		22.6	6 Min	81.0	27.9	
11	-					
30.0 30.0 25.0 20.0 11	10	Isentropic Effecien	су	73.46	%	
	11	Specific Power (kW/100 ACFM)	30.0 25.0 20.0			

0.0 25.0 50.0 75.0 Capacity (ACFM) Note: Graph is only a visual representation of the data in Section 8 Note: Y-Axis Scale, 10 to 35, + 5kW/100acfm increments if necessary above 35 X-Axis Scale, 0 to 25% over maximum capacity

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

Compressed Air & Gas Institute	Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power		
	$\underline{m^3 / \min}$	<u>ft3 / min</u>	%	%			
	Below 0.5	Below 17.6	+/- 7	+/- 8			
ROT 030.1	0.5 to 1.5	17.6 to 53	+/- 6	+/- 7	+/- 10%		
	1.5 to 15	53 to 529.7	+/- 5	+/- 6			
	Above 15	Above 529.7	+/- 4	+/- 5			
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