

COMPRESSOR DATA SHEET

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

Rotary Compressor: Variable Frequency Drive

1 Manu	acturer:	Atlas Copco		
Mode	Number:	GA75VSD	Date:	11/30/2020
2 X	X Air-cooled Water-coole		Type:	Screw
			# of Stages:	1
3 Full	Load Operating	Pressure ^b	102	psig ^b
4 Driv	e Motor Nomina	al Rating	100	hp
5 Driv	e Motor Nomina	al Efficiency	93.7	percent
6 Fan	Motor Nominal	Rating (if applicable)	2.4	hp
7 Fan	Motor Nominal	Efficiency	77	percent
	Input Po	ower (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d
	92.0	Max	533.1	17.3
}*	80.8		470.3	17.2
5**	56.1		323.9	17.3
	45.1		255.9	17.6
	25.3		127.7	19.8
	18.2	Min	79.5	22.9
	Total Package Input Power at Zero Flow ^{c, d} Isentropic Effeciency		0.0 77.11	<u>kW</u> %
1	25.0 20.0 Sbecilic Power (KW/100 ACEM) 15.0 10.0	0.0 25.0 50.0 75.0 100.0 125.0 150.0	175.0 200.0 225.0 250.0 275.0 300.0 325.0 Capacity (ACFM) visual representation of the data in Se	

Consult CAGI websitefor a list of participants in the third party verification program:

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:

NOTES: Member

- 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.

www.cagi.org

c. No Load Power. In accordance with ISO 1217, Annex E, if measurement of no load power equals less than 1%,



ROT 030.1

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

Gas Institute	Volume Flow Rate at specified conditions		Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
	$\underline{m}^3 / \underline{min}$	<u>ft3 / min</u>	%	%	
	Below 0.5	Below 17.6	+/- 7	+/- 8	
	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	
form was developed	by the Compressed Air and (Tas Institute for the use of its member	rs participating in the PVP_CAGI has n	ot independently verified the reported d	ata

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



COMPRESSOR DATA SHEET

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

Rotary Compressor: Variable Frequency Drive

1	Manufacturer:	Atlas Copco	- FOR COMPRESSED		
1	Model Number:	GA75VSD	Date:	11/30/2020	
2	X Air-cooled	Water-cooled	Type:		
2			Screw		
			# of Stages:	1	
3	Full Load Operatir	ng Pressure ^b	138	psig ^b	
4	Drive Motor Nomi		100	hp	
5	Drive Motor Nomi	-	93.7	percent	
6		al Rating (if applicable)	2.4	hp	
7	Fan Motor Nomina	al Efficiency	77	percent	
	Input	Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	92.2	Max	465.2	19.8	
0.1	77.9	77.9		19.9	
8*	64.8	64.8		20.2	
	40.9		187.4	21.8	
	30.1		126.9	23.7	
	25.6	Min	101.9	25.1	
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0	kW	
10	Isentropic Effeciency		77.29	%	
11	Specific Power (kW/100 ACFM)	Note: Graph is only a v Note: Y-Axis Scale, 10 to 35	50.0 175.0 200.0 225.0 250.0 275.0 300.0 Capacity (ACFM) visual representation of the data in Sectio 5, + 5kW/100acfm increments if necessary a , 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.

d. Tolerance is specified in ISO 1217, Annex E, as shown in table below:

Consult CAGI website for a list of participants in the third party verification program:

NOTES: Member

- 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.

www.cagi.org

- 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.
- CAGI compressed Air & Gas Institute

ROT 030.1

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

as Institute	titute 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 17.6	+/- 7	+/- 8			
	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			
form was developed	nrm 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						

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



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:	GA75VSD	Date:	11/30/2020	
2	X Air-cooled Water-cooled		Type:	Screw	
			# of Stages:	1	
3	Full Load Operat	ting Pressure ^b	181	psig ^b	
4	Drive Motor Nor	ninal Rating	100	hp	
5	Drive Motor Nor	ninal Efficiency	93.7	percent	
6	Fan Motor Nomi	nal Rating (if applicable)	2.4	hp	
7	Fan Motor Nomi	nal Efficiency	77	percent	
	Inpu	t Power (kW)	Capacity (acfm) ^{a,d}	Specific Power (kW/100 acfm) ^d	
	91.	91.6 Max		23.7	
0*	76.	76.5		24.2	
8*	62.	62.3		25.1	
	49.2		182.9	26.9	
	37.0		123.6	29.9	
	37.	0 Min	123.6	29.9	
9*	Total Package Input Power at Zero Flow ^{c, d}		0.0	kW	
10	Isentropic Effect	ency	72.21	%	
11	Specific Power (kW/100 ACFM)	35.0 30.0 25.0 20.0 15.0 10.0 0.0 25.0 50.0 75.0 100.0	25.0 150.0 175.0 200.0 225.0 250.0 Capacity (ACFM)	275.0 300.0 325.0 350.0 375.0 400.0 425.0	
		Note: Y-Axis Scale, 10 to 3	visual representation of the data in Section 5, + 5kW/100acfm increments if necessary a e, 0 to 25% over maximum capacity		

Consult CAGI websitefor a list of participants in the third party verification program:

NOTES: Member

ROT 030.1

- 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.

www.cagi.org

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:

tute		ne Flow Rate fied conditions	Volume Flow Rate	Specific Energy Consumption	No Load / Zero Flow Power
	$\underline{m}^3 / \underline{min}$	<u>ft3 / min</u>	%	%	
	Below 0.5	Below 17.6	+/- 7	+/- 8	
	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