COMPRESSOR DATA SHEET



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

Rotary Compressor: Variable Frequency Drive

MODEL DATA - FOR COMPRESSED AIR							
Manufacturer: Gardner	Denver						
Model Number: VST75-3	i	Date:	01/04/21				
Air-cooled X W		Type:	Screw				
			# of Stages:	2			
Full Load Operating Pressure b		100		psig b			
Drive Motor Nominal Rating		2 x 50		hp			
Drive Motor Nominal Efficiency		94.0		percent			
Fan Motor Nominal Rating (if applicable)		NA		hp			
Fan Motor Nominal Efficiency		NA	Cn	percent Specific Power			
Input Power (kW)	r (kW)		1 1	(kW/100 acfm) ^d			
90.60		564.0	16	16.06			
77.36		479.4	16	16.14			
64.35		394.8	16	16.30			
52.20		310.2	16	5.83			
40.63		225.6	18	.01			
24.70			21	21.11			
Total Package Input Power at Zero Flow c, d			_	kW			
Isentropic Efficiency		79.90		%			
35.00 30.00 Specific Power (kW/100 ACFM) 15.00 10.00 0.0	100.0 200	0.0 300.0 Capacity (ACFM)	400.0 500.0	600.0			
		isual representation of the data					
	Manufacturer: Gardner Model Number: VST75-5 Air-cooled X W Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Input Power (kW) 90.60 77.36 64.35 52.20 40.63 24.70 Total Package Input Power at Isentropic Efficiency State of the content of the c	Manufacturer: Gardner Denver Model Number: VST75-50hp(2S)-100ps Air-cooled X Water-cooled Full Load Operating Pressure Drive Motor Nominal Rating Drive Motor Nominal Efficiency Fan Motor Nominal Efficiency Input Power (kW) 90.60 77.36 64.35 52.20 40.63 24.70 Total Package Input Power at Zero Flow Isentropic Efficiency Solution of the proper of the property of the	Manufacturer: Gardner Denver Model Number: VST75-50hp(2S)-100psi Air-cooled X Water-cooled Full Load Operating Pressure 2 100 Drive Motor Nominal Rating 2 x 50 Drive Motor Nominal Efficiency 94.0 Fan Motor Nominal Efficiency NA Input Power (kW) Capacity (acfm) 3.4 90.60 564.0 77.36 479.4 64.35 394.8 52.20 310.2 40.63 225.6 24.70 117.0 Total Package Input Power at Zero Flow c, d Isentropic Efficiency 79.90 Isentropic Efficiency 79.90 Note: Graph is only a visual representation of the data	Manufacturer: Gardner Denver Model Number: VST75-50hp(2S)-100psi Date: Air-cooled X Water-cooled Type: # of Stages: # of Stages: Full Load Operating Pressure Dorive Motor Nominal Rating 2 x 50 Drive Motor Nominal Efficiency 94.0 Fan Motor Nominal Efficiency NA Fan Motor Nominal Efficiency NA Input Power (kW) Capacity (acfm) ^{a,d} (kW 90.60 564.0 16 77.36 479.4 16 64.35 394.8 16 52.20 310.2 16 40.63 225.6 18 24.70 117.0 21 Total Package Input Power at Zero Flow C, d 0.0 0 Isentropic Efficiency 79.90 0			

*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: www.cagi.org



- 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.

Member

	olume Flow Rate pecified conditions	Volume Flow Rate	Specific Energy Consumption	Zero Flow Power
$\underline{m}^3 / \underline{min}$	ft ³ / min	%	%	%
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	

ROT 031.1

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.

Configurator: VST55-90B