

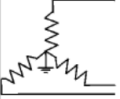


**Installation Data Sheet**  
 Series: 1:1 Belt Drive Airtower  
 Document No.: TI-DATA-2008-Airtower 3C-7.5C  
 Version: 2.6  
 Revision Date: 12/8/25

Model	3C			4C			5C			7.5C		
Rated Pressure [psig]	125	160		125	160	217	125	160	217	125	160	217
<b>I. COOLING DATA</b>												
Cooling System Available [Std., Opt.]	A/C			A/C			A/C			A/C		
Standard Ambient Temp. Range [°F]	40 - 105			40 - 105			40 - 105			40 - 105		
<b>Ventilation of Compressor Room</b>												
Air Inlet Opening [sq. ft. free area] (A/C) Z	2.2			2.2			2.2			2.2		
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>												
Cooling Fan Capacity [CFM] (A/C)	883			1,001			1,236			1,530		
<p>Model shown for reference only Actual Duct size may vary with installation</p>												
<b>Solution A Exhaust Fan</b>												
<b>Ventilation of Compressor Room Z</b>												
<b>AIR COOLED DATA</b>												
Internal Cooling Fan Capacity [CFM]	895			895			1,030			1,089		
Typical Heat Rejected [BTU / HR]	10,500			13,000			17,000			22,000		
<b>II. ELECTRICAL DATA</b> <i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>												
<b>DRIVE MOTOR</b>												
Motor HP	3			4			5			7.5		
Insulation Class	F			F			F			F		
Standard Voltage	208-230-460V/3Ph/60Hz			208-230-460V/3Ph/60Hz			208-230-460V/3Ph/60Hz			208-230-460V/3Ph/60Hz		
Full Load Amps [FLA] @ 208V/3ph/60Hz	8			10.1			14.4			18		
Full Load Amps [FLA] @ 230V/3ph/60Hz	7.4			10.7			14.4			18.8		
Full Load Amps [FLA] @ 460V/3ph/60Hz	3.7			5.1			7.2			9		
Full Load Amps [FLA] @ 575V/3ph/60Hz	3			4.1			5.8			7.2		
<b>FAN MOTOR (A/C)</b>												
Insulation Class	B			B			B			B		
Fan Motor [HP], oilcooler   aircooler	0.1			0.1			0.1			0.1		
Full Load Amps [FLA] @ 115V/1ph/60Hz	0.73			0.73			0.73			0.73		



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<b>TOTAL PACKAGE DATA (A/C)</b>												
Do NOT operate package on an unsymmetrical power supply. Also do NOT operate package power supplies such as a three-phase WYE system with the center point not solidly grounded or on a three-phase (open) delta system. The machine requires a symmetrical three-phase power supply transformer with a WYE configuration as shown. With a symmetrical three-phase supply the phase angles and voltages are all the same. A protective conductor is required. Other power supplies are not suitable.								<b>Three-phase star circuit (WYE); 3 wire; center point solidly grounded</b>				
Continuous Duty [Hours per day]	24			24			24			24		
Control Cabinet Class (NEMA)	12			12			12			12		
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	50			50			50			50		
Package Full Load Amps @ 208V/1ph/60Hz [FLA]	-			-			25			34		
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	9.4			12			15			20		
Package Full Load Amps @ 230V/1ph/60Hz [FLA]	-			-			23			30		
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	8.6			11			15			19		
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	4.3			5.5			7.6			9.4		
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	3.5			4.4			6.1			7.4		
Recommended Disconnect Fuse Size [Amps] @ 208V/1ph/60Hz	-			-			45			60		
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz	15			15			20			30		
Recommended Disconnect Fuse Size [Amps] @ 230V/1ph/60Hz	-			-			40			50		
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	15			15			20			25		
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	10			10			10			15		
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	6			10			10			10		
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/1ph/60Hz	-			-			8 AWG per phase and ground			6 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz	14 AWG per phase and ground			14 AWG per phase and ground			12 AWG per phase and ground			10 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/1ph/60Hz	-			-			8 AWG per phase and ground			6 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz	14 AWG per phase and ground			14 AWG per phase and ground			12 AWG per phase and ground			10 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground		
Separate Power Supply for Integrated Dryer - Recommended Disconnect Wire Size [AWG/kcmil] @ 115V/1ph/60Hz	14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground			14 AWG per phase and ground		
Separate Power Supply for Integrated Dryer - Recommended Disconnect Fuse Size [Amps] @ 115V/1ph/60Hz	15			15			15			15		



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<b>INSTALLATION and MAINTENANCE DATA</b>											
A/C with Super Soundproofing [dB(A)]	69		70			70			70		
A/C Air Discharge [inches NPT or Flange]	3/4 NPT		3/4 NPT			3/4 NPT			3/4 NPT		
Power Input Conduit Opening(s) [inches]	1 1/2		1 1/2			1 1/2			1 1/2		
Condensate Drain Connection [NPT]	1/4		1/4			1/4			1/4		
Air Receiver Tank Size [gal]	56.8		56.8			56.8			56.8		
Width [inches]	24 3/8		24 3/8			24 3/8			24 3/8		
Depth [inches]	38 5/8		38 5/8			38 5/8			38 5/8		
Height [inches]	58		58			58			58		
Floor Space [sq. ft.]	6 1/2		6 1/2			6 1/2			6 1/2		
Weight (A/C) [lb]	628		628			639			661		
	Weight may vary based on airend selected.										
<b>COMPRESSOR FLUID DATA</b>											
Fluid Capacity (A/C) [qt]	3		3			3			3		
Flow Rate [gal/min]	1.7		1.7			1.7			1.7		
Typical Oil Consumption [fl. Oz./100 h]	0.3		0.4			0.53			0.7		
Standard Fluid Type	Sigma S-460		Sigma S-460			Sigma S-460			Sigma S-460		
<b>MAINTENANCE PARTS</b>											
Air Inlet Filter	6.4212.0										
Filter Mat (optional)	5.0857.0										
Fluid Filter	6.3461.1										
Fluid Separator Kit	6.4334.1										
Maintenance Kit for Optional 5-year warranty	AN5YRKTAIRT										
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	AN5YRKTAIRTF										
<b>DRYER DATA - FOR T MODELS</b>											
Dryer Model	CT4		CT4			CT8	CT4			CT8	CT4
Standard Voltage	115/1/60		115/1/60			115/1/60			115/1/60		
Full Load Amps [FLA]	3.2		3.2			5.1	3.2			5.1	3.2
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]	232		232			232			232		
Nominal Pressure Drop at Rated Flow [psid]	3		3			3			3		
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.										
	43		43			43			43		
<b>REFRIGERATION SYSTEM DATA - FOR T MODELS</b>											
Compressor Type	GL 60 TG		GL 60 TG			GL 60 TG			GL 60 TG		
BTU/Refrigeration ASHRAE	1750		1750			1750			1750		
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.										
	85		85			85			85		
Refrigerant Type	R-513A		R-513A			R-513A			R-513A		
GWP (Global Warming Potential)	631		631			631			631		
CO2 equivalent [t]	0.1		0.1			0.2	0.1			0.2	0.1
Refrigerant Charge [lb]	0.37		0.37			0.55	0.37			0.55	0.37
Air Flow Across Condenser [CFM]	306		306			441			441		