

**Dry-running Screw Compressor  
Installation Data Sheet**

Model	CSG 55-2 T			CSG 70-2 T			CSG 90-2 T			CSG 120-2 T			CSG 130-2 T			
	Rated Pressure [psig]	100	110	125	100	110	125	100	125	145	100	125	145	100	125	145
<b>I. Cooling Data</b>																
Cooling System Available [Std., Opt.]	A/C, W/C			A/C, W/C			A/C, W/C			A/C, W/C			A/C, W/C			
Standard Ambient Temp. Range [°F]	40 - 115			40 - 115			40 - 115			40 - 115			40 - 115			
Ventilation Inlet Air Opening [sq. ft. free area] (A/C) <b>Z</b>	16.1			18.3			21.5			24.8			29.1			
Ventilation Inlet Air Opening [sq. ft. free area] (W/C) <b>Z</b>	10.8			10.8			10.8			10.8			10.8			
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)   (W/C)	0.32 / 0.24			0.28 / 0.24			0.28 / 0.24			0.24 / 0.24			0.24 / 0.24			
Exhaust Air Opening Reference Dimensions (L x W) [in.]	See Dimensional Drawing															
<p><b>Model shown for reference only Actual Duct size may vary with installation</b></p> <p><b>A Exhaust Air Duct</b> <b>V Exhaust Fan</b> <b>Z Ventilation Inlet Air Opening</b></p>																
<b>Air-cooled Data</b>																
Internal Cooling Fan Capacity [CFM]	7,652			7,652			7,652			7,652			7,652			
<b>Water-cooled Data</b>																
Internal Cooling Fan Capacity [CFM]	2,354			2,354			2,354			2,354			2,354			
Cooling Water Connection [inches NPT]	1 1/4			1 1/4			1 1/4			1 1/4			1 1/4			
Cooling Water Flow f. Heating Up ΔT=27°F [gal/min]	10.1			11.9			14.5		15	20.3		21.6	22		23.3	
Cooling Water Pressure Loss at ΔT=27°F [psi]	2.9			2.9			2.9			2.9			2.9			
<b>II. Electrical Data</b>																
<b>Drive Motor</b>																
Motor [hp]	50			60			75			100			125			
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant. Main power supply and overcurrent protection must be installed by a qualified electrician in accordance with NEC, OSHA, and any applicable local codes.</i>																
NEMA Nominal Efficiency %	95.40%			95.40%			94.50%			95.00%			95.40%			
Enclosure Type	IP55 (TEFC)			IP55 (TEFC)			IP55 (TEFC)			IP55 (TEFC)			IP55 (TEFC)			
Insulation Class	F			F			F			F			F			
Standard Voltage	460V/3ph/60Hz			460V/3ph/60Hz			460V/3ph/60Hz			460V/3ph/60Hz			460V/3ph/60Hz			
Full Load Amps [FLA]	59			71			85			117			135			
<b>Fan Motor (A/C)</b>																
Insulation Class	F			F			F			F			F			
Fan Motor [hp]	4			4			4			4			4			
Nominal Efficiency %	89.5%			89.5%			89.5%			89.5%			89.5%			
Full Load Amps [FLA]	6.0			6.0			6.0			6.0			6.0			
<b>Fan Motor (W/C)</b>																
Insulation Class	F			F			F			F			F			
Fan Motor [hp]	0.75			0.75			0.75			0.75			0.75			
Nominal Efficiency %	77.00%			77.00%			77.00%			77.00%			77.00%			
Full Load Amps [FLA]	1.47			1.47			1.47			1.47			1.47			



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Doc: TI-HDS-2019-CSG T  
Version: 1.2  
Rev. Date: 02/04/2022

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	Rated Pressure [psig]	100	110	125	100	110	125	100	125	145	100	125	145	100	125	145
<b>Total Package Data (A/C)</b>																
Control Cabinet Class (NEMA)		12			12			12			12			12		
Short Circuit Current Rating [kA rms sym]	Field installed fuse required, see below*	50			50			50			50			50		
Package Full Load Amps [FLA]		76			86			104			146			152		
Recommended Disconnect Fuse Size [Amps]	*Time delay (dual element) fuse, Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. A4BQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250	110			125			150			200			225		
Recommended Disconnect Wire Size [AWG/kcmil]	The following multi-strand copper core wires are given according to 2020 NEC 310.14, 310.15, 310.16 and table 310.16 adjusted for 40°C ambient temperature. If other local conditions prevail, for example high temperature, the cross section should be checked and adjusted according to 2020 NEC 110.14(C), 220.3, 310.14, 310.15, 310.16, 430.6, 430.22, 430.24, 670.4(A) and other local codes.	2 AWG per phase			1 AWG per phase			1/0 AWG per phase			4/0 AWG per phase			4/0 AWG per phase		
Minimum Recommended Ground Wire Size	We recommend using 1 full size conductor for the ground. The minimum ground wire size given above is per the 2020 NEC Table 250.122.	2 AWG per phase			1 AWG per phase			1/0 AWG per phase			4/0 AWG per phase			4/0 AWG per phase		
<b>Total Package Data (W/C)</b>																
Package Full Load Amps [FLA]		71			81			98			140			146		
Recommended Disconnect Fuse Size [Amps]	*Time delay (dual element) fuse, Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. A4BQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250	100			110			125			200			200		
Recommended Disconnect Wire Size [AWG/kcmil]	The following multi-strand copper core wires are given according to 2020 NEC 310.14, 310.15, 310.16 and table 310.16 adjusted for 40°C ambient temperature. If other local conditions prevail, for example high temperature, the cross section should be checked and adjusted according to 2020 NEC 110.14(C), 220.3, 310.14, 310.15, 310.16, 430.6, 430.22, 430.24, 670.4(A) and other local codes.	2 AWG per phase			1 AWG per phase			1/0 AWG per phase			3/0 AWG per phase			4/0 AWG per phase		
Minimum Recommended Ground Wire Size	We recommend using 1 full size conductor for the ground. The minimum ground wire size given above is per the 2020 NEC Table 250.122.	2 AWG per phase			1 AWG per phase			1/0 AWG per phase			3/0 AWG per phase			4/0 AWG per phase		
<b>III. Basic Specifications</b>																
Super Soundproofing [dB(A)] w/o ducting (A/C)   (W/C)	Measured in dB(A) according to ISO 2151 using ISO 9614-2. Tolerance +/- 3 dB(A).	73 / 65			73 / 65			74 / 66			75 / 67			76 / 69		
Super Soundproofing [dB(A)] with ducting (A/C)   (W/C)		72 / 65			72 / 65			73 / 66			74 / 67			75 / 69		
A/C Air Discharge [inches Flange]		2 1/2 ASME B16.5 class 150			2 1/2 ASME B16.5 class 150			2 1/2 ASME B16.5 class 150			2 1/2 ASME B16.5 class 150			2 1/2 ASME B16.5 class 150		
Total Oil Charge (A/C) [gal]		9.8			9.8			9.8			9.8			9.8		
Total Oil Charge (W/C) [gal]		9.2			9.2			9.2			9.2			9.2		
Maximum Altitude [ft.]	Higher altitudes are permissible only after consultation with the manufacturer.	1,640			1,640			1,640			1,640			1,640		
Power Input Conduit Opening(s) [in.]		2 x Ø 3"			2 x Ø 3"			2 x Ø 3"			2 x Ø 3"			2 x Ø 3"		
Dimensions (W x D x H) [in.] (A/C)		111 3/4 x 64 5/8 x 84 1/4			111 3/4 x 64 5/8 x 84 1/4			111 3/4 x 64 5/8 x 84 1/4			111 3/4 x 64 5/8 x 84 1/4			111 3/4 x 64 5/8 x 84 1/4		
Dimensions (W x D x H) [in.] (W/C)		111 3/4 x 64 5/8 x 77 1/2			111 3/4 x 64 5/8 x 77 1/2			111 3/4 x 64 5/8 x 77 1/2			111 3/4 x 64 5/8 x 77 1/2			111 3/4 x 64 5/8 x 77 1/2		
Weight [lb] (A/C + W/C)		5,556			5,644			5,787			6,096			6,371		
<b>IV. Refrigeration System Data</b>																
Dryer Model		ABT 130			ABT 130			ABT 130			ABT 130			ABT 130		
Max. Power Consumption [hp]		3.8			3.8			3.8			3.8			3.8		
Refrigerant Type		R-513A			R-513A			R-513A			R-513A			R-513A		
Refrigerant Charge [lb.]		3.5			3.5			3.5			3.5			3.5		
GWP (Global Warming Potential)		631			631			631			631			631		
CO2 Equivalent [t]		1.01			1.01			1.01			1.01			1.01		