

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

Model	CSG 70-2 SFC T		CSG 90-2 SFC T		CSG 120-2 SFC T			CSG 130-2 SFC T			
	Rated Pressure [psig]		100	125	100	125	100	125	145	100	125
I. Cooling Data											
Cooling System Available [Std., Opt.]	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			
Ventilation Inlet Air Opening [sq. ft. free area] (A/C) Z	19.4		21.5		24.8			29.1			
Ventilation Inlet Air Opening [sq. ft. free area] (W/C) Z	10.8		10.8		10.8			10.8			
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C) (W/C)	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 align="center">Model shown for reference only Actual Duct size may vary with installation</p> <p>A Exhaust Air Duct V Exhaust Fan Z Ventilation Inlet Air Opening</p>											
Air-cooled Data											
Internal Cooling Fan Capacity [CFM]	7,652		7,652		7,652			7,652			
Water-cooled Data											
Internal Cooling Fan Capacity [CFM]	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			
Cooling Water Flow f. Heating Up ΔT=27°F [gal/min]	13.2		16.3		21.6			24.7			
Cooling Water Pressure Loss at ΔT=27°F [psi]	2.9		2.9		2.9			2.9			
II. Electrical Data											
<p>Do NOT operate package on any unsymmetrical power supply. Also do NOT operate package on power supplies, for example, a three-phase (open) delta or three-phase star with non-grounded neutral. The machine requires a symmetrical three-phase power supply transformer with a WYE configuration output as shown on the right. In a symmetrical three-phase supply, the phase angles and voltages are all the same. Other power supplies are not suitable.</p>											
Drive Motor											
Motor [hp]	75		75		100			125			
NEMA Nominal Efficiency %	94.50%		94.50%		95.00%			95.40%			
Enclosure Type	IP55 (TEFC)		IP55 (TEFC)		IP55 (TEFC)			IP55 (TEFC)			
Insulation Class	F		F		F			F			
Standard Voltage	460V/3ph/60Hz		460V/3ph/60Hz		460V/3ph/60Hz			460V/3ph/60Hz			
Full Load Amps [FLA]	85		85		114			138			
Fan Motor (A/C)											
Insulation Class	F		F		F			F			
Fan Motor [hp]	4		4		4			4			
Nominal Efficiency %	89.5%		89.5%		89.5%			89.5%			
Full Load Amps [FLA]	6.0		6.0		6.0			6.0			
Fan Motor (W/C)											
Insulation Class	F		F		F			F			
Fan Motor [hp]	0.75		0.75		0.75			0.75			
Nominal Efficiency %	77.00%		77.00%		77.00%			77.00%			
Full Load Amps [FLA]	1.47		1.47		1.47			1.47			



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Doc: TH-DS-2019-CSG SFC T
Version: 1.2
Rev. Date: 02/04/2022

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	Rated Pressure [psig]	100	125	100	125	100	125	145	100	125	145
Total Package Data (A/C)											
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]		94		112		148		167			
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	125		150		200		250			
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.	1/0 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil 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.	1/0 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil per phase			
Total Package Data (W/C)											
Package Full Load Amps [FLA]		92		110		146		165			
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	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.	1/0 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil 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.	1/0 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil per phase			
III. Basic Specifications											
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).	74 / 66		75 / 67		76 / 68		76 / 69			
Super Soundproofing [dB(A)] with ducting (A/C) (W/C)		73 / 66		74 / 67		75 / 68		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			
Total Oil Charge (A/C) [gal]		9.8		9.8		9.8		9.8			
Total Oil Charge (W/C) [gal]		9.2		9.2		9.2		9.2			
Maximum Altitude [ft.]	Higher altitudes are permissible only after consultation with the manufacturer.	1640		1,640		1,640		1,640			
Power Input Conduit Opening(s) [in.]		1 x Ø 3"		1 x Ø 3"		1 x Ø 3"		1 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			
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			
Weight [lb] (A/C) + (W/C)		5,743		5,743		5,853		6,030			
IV. Refrigeration System Data											
Dryer Model		ABT 130		ABT 130		ABT 130		ABT 130			
Max. Power Consumption [hp]		4.29		4.29		4.29		4.29			
Refrigerant Type		R-513A		R-513A		R-513A		R-513A			
Refrigerant Charge [lb.]		3.5		3.5		3.5		3.5			
GWP (Global Warming Potential)		631		631		631		631			
CO2 Equivalent [t]		1.01		1.01		1.01		1.01			