

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

Model	CSG 70-2 SFC		CSG 90-2 SFC		CSG 120-2 SFC			CSG 130-2 SFC				
Rated Pressure [psig]	100	125	100	125	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				
Standard Ambient Temp. Range [°F]	40 - 115		40 - 115		40 - 115			40 - 115				
Ventilation Inlet Air Opening [sq. ft. free area] (A/C) <b>Z</b>	12.9		15.1		19.4			23.7				
Ventilation Inlet Air Opening [sq. ft. free area] (W/C) <b>Z</b>	5.4		5.4		5.4			5.4				
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"><b>Model shown for reference only Actual Duct size may vary with installation</b></p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p><b>A Exhaust Air Duct</b></p> <p><b>V Exhaust Fan</b></p> <p><b>Z Ventilation Inlet Air Opening</b></p> </div> <div style="flex: 2; text-align: center;"> </div> </div>												
<b>Air-cooled Data</b>												
Internal Cooling Fan Capacity [CFM]	7652		7,652		7,652			7,652				
Approach Temp. [°F]	7.2		7.2		7.2			9				
<i>Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.</i>												
<b>Water-cooled Data</b>												
Internal Cooling Fan Capacity [CFM]	2354		2,354		2,354			2,354				
Approach Temp. [°F]	5.4		5.4		7.2			9				
<i>Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.</i>												
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				
<b>II. Electrical Data</b>												
<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>							<p>three-phase star (wye); 4-wire; grounded neutral</p>				<p>three-phase star (wye); 3-wire; grounded neutral</p>	
<b>Drive Motor</b>												
Motor [hp]	75		75		100			125				
NEMA Nominal Efficiency %	94.5		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				
<b>Fan Motor (A/C)</b>												
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				



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Doc: THDS-2019-CSG SFC  
Version: 1.2  
Rev. Date: 02/04/2022

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	100	125	100	125	100	125	145	100	125	145
<b>Fan Motor (W/C)</b>										
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			
<b>Total Package Data (A/C)</b>										
Control Cabinet Class (NEMA)	12		12		12		12			
Short Circuit Current Rating [kA rms sym]	Field installed fuse required, see below*									
Package Full Load Amps [FLA]	89		107		143		162			
Recommended Disconnect Fuse Size [Amps]	125		150		200		225			
Recommended Disconnect Wire Size [AWG/kcmil]	1 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil per phase			
Minimum Recommended Ground Wire Size	1 AWG per phase		2/0 AWG per phase		4/0 AWG per phase		250 kcmil per phase			
<b>Total Package Data (W/C)</b>										
Package Full Load Amps [FLA]	86		104		140		159			
Recommended Disconnect Fuse Size [Amps]	125		150		200		225			
Recommended Disconnect Wire Size [AWG/kcmil]	1 AWG per phase		1/0 AWG per phase		3/0 AWG per phase		4/0 AWG per phase			
Minimum Recommended Ground Wire Size	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).				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.									
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)	98 x 64 5/8 x 84 1/4		98 x 64 5/8 x 84 1/4		98 x 64 5/8 x 84 1/4		98 x 64 5/8 x 84 1/4			
Dimensions (W x D x H) [in.] (W/C)	98 x 64 5/8 x 77 1/2		98 x 64 5/8 x 77 1/2		98 x 64 5/8 x 77 1/2		98 x 64 5/8 x 77 1/2			
Weight [lb] (A/C + W/C)	5,236		5,236		5,545		5,820			