

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

Model	CSG 70-2 SFC i.HOC		CSG 90-2 SFC i.HOC		CSG 120-2 SFC i.HOC			CSG 130-2 SFC i.HOC		
	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> <p><b>A Exhaust Air Duct</b> <b>B Additional Exhaust Duct for Option D2</b> <b>V Exhaust Fan</b> <b>Z Ventilation Inlet Air Opening</b></p> <p align="center">*minimum clearance if no crane available</p>										
<b>Air-cooled Data</b>										
Internal Cooling Fan Capacity [CFM]	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		
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]	<p align="center"><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></p>				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		
<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		
<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		



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Doc: TI-IDS-2019-CSG SFC RD  
Version: 1.2  
Rev. Date: 02/04/2022

Model	CSG 70-2 SFC i.HOC		CSG 90-2 SFC i.HOC		CSG 120-2 SFC i.HOC			CSG 130-2 SFC i.HOC			
	Rated Pressure [psig]	100	125	100	125	100	125	145	100	125	145
<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*	50		50		50			50		
Package Full Load Amps [FLA]		99		117		153			172		
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		175		225			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		
<b>Total Package Data (W/C)</b>											
Package Full Load Amps [FLA]		97		115		151			170		
Recommended Disconnect Fuse Size [Amps]	Dual-element time-delay fuse; based on 2011 NEC 240-6, 430-52, and Tables 430-148, 150 & 152.	125		150		225			250		
Recommended Disconnect Wire Size [AWG/kcmil]	Based on 2011 NEC 110-14(c), 220-3, 310-15, Table 310-16, 430-6, 430-22, 430-24 and Tables 430-148 and 150. Multi-strand copper core wire at 40°C ambient temperature, with 75° temperature rating, and an insulation rating of 90°C.	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 2011 NEC Table 250.122.	1/0 AWG per phase		2/0 AWG per phase		4/0 AWG per phase			250 kcmil 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.	1,640		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)		123 5/8 x 64 5/8 x 84 1/4		123 5/8 x 64 5/8 x 84 1/4		123 5/8 x 64 5/8 x 84 1/4			123 5/8 x 64 5/8 x 84 1/4		
Dimensions (W x D x H) [in.] (W/C)		123 5/8 x 64 5/8 x 77 1/2		123 5/8 x 64 5/8 x 77 1/2		123 5/8 x 64 5/8 x 77 1/2			123 5/8 x 64 5/8 x 77 1/2		
Weight [lb] (A/C + W/C)		6,768		6,768		6,878			7,055		
<b>IV. i.HOC System Data</b>											
Blower Motor Nominal Power [hp]		7.4		7.4		7.4			7.4		
Blower Motor Speed [rpm]		8,010		8,010		8,010			8,010		
Blower Motor Efficiency [%]		87%		87%		87%			87%		
Drum Motor Nominal Power [hp]		0.16		0.16		0.16			0.16		
Drum Motor Speed [rpm]		1,690		1,690		1,690			1,690		
Drum Motor Efficiency [%]		61%		61%		61%			61%		