



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

Doc: TI-IDS-2014-DSG RD
Version: 1.9
Rev. Date: 02/04/2022

Model	DSG 140-2 i.HOC			DSG 180-2 i.HOC			DSG 220-2 i.HOC			DSG 260-2 i.HOC			DSG 290-2 i.HOC					
	Rated Pressure [psig]	100	125	145	100	125	145	100	125	145	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		
Package Full Load Amps [FLA]		202			224		213	247			284			318				
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	300			300			350			400			450				
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 x 1/0 AWG per phase			2 x 2/0 AWG per phase			2 x 3/0 AWG per phase			2 x 4/0 AWG per phase			2 x 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 x 1/0 AWG per phase			2 x 2/0 AWG per phase			2 x 3/0 AWG per phase			2 x 4/0 AWG per phase			2 x 4/0 AWG per phase				
Total Package Data (W/C)																		
Package Full Load Amps [FLA]		189			211		200	235			271			304				
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	250			300			350			400			450				
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 x 1/0 AWG per phase			2 x 1/0 AWG per phase			2 x 2/0 AWG per phase			2 x 3/0 AWG per phase			2 x 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 x 1/0 AWG per phase			2 x 1/0 AWG per phase			2 x 2/0 AWG per phase			2 x 3/0 AWG per phase			2 x 4/0 AWG 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).	80 / 69			81 / 70			81 / 71			82 / 74			84 / 75				
Super Soundproofing [dB(A)] with ducting (A/C) (W/C)		78 / 69			79 / 70			79 / 71			80 / 74			82 / 75				
A/C Air Discharge [inches Flange]		3 ASME B16.5 class 150			3 ASME B16.5 class 150			3 ASME B16.5 class 150			3 ASME B16.5 class 150			3 ASME B16.5 class 150				
Total Oil Charge (A/C) [gal]		12.4			12.4			12.4			12.4			12.4				
Total Oil Charge (W/C) [gal]		11.9			11.9			11.9			11.9			11.9				
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)		168 1/8 x 68 7/8 x 93 7/8			168 1/8 x 68 7/8 x 93 7/8			168 1/8 x 68 7/8 x 93 7/8			168 1/8 x 68 7/8 x 93 7/8			168 1/8 x 68 7/8 x 93 7/8				
Dimensions (W x D x H) [in.] (W/C)		168 1/8 x 68 7/8 x 81 1/8			168 1/8 x 68 7/8 x 81 1/8			168 1/8 x 68 7/8 x 81 1/8			168 1/8 x 68 7/8 x 81 1/8			168 1/8 x 68 7/8 x 81 1/8				
Weight [lb] (A/C)		9,921			10,251			10,472			10,803			11,244				
Weight [lb] (W/C)		9,259			9,590			9,811			10,141			10,582				
IV. i.HOC System Data																		
Blower Motor Nominal Power [hp]		9.7			9.7			9.7			9.7			9.7				
Blower Motor Speed [rpm]		5,710			5,710			5,710			5,710			5,710				
Blower Motor Efficiency [%]		85%			85%			85%			85%			85%				
Drum Motor Nominal Power [hp]		0.16			0.16			0.16			0.16			0.16				
Drum Motor Speed [rpm]		1,690			1,690			1,690			1,690			1,690				
Drum Motor Efficiency [%]		62%			62%			62%			62%			62%				