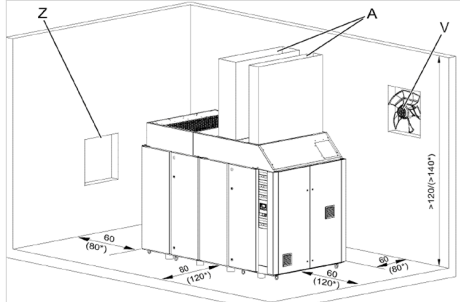


**Dry-running Screw Compressor  
Installation Data Sheet**

Model	FSG 300-2			FSG 350-2			FSG 420-2			FSG 500-2			FSG 501-2		
	100	125	145	100	125	145	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			W/C		
Standard Ambient Temp. Range [°F]	40 - 115			40 - 115			40 - 115			40 - 115			40-105		
Ventilation Inlet Air Opening [sq. ft. free area] (A/C) <b>Z</b>	43			53.8			64.6			75.3			N/A		
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 / 0.32			0.32 / 0.32			0.64 / 0.32			0.48 / 0.32			- / 0.32		
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> <p>*see minimum clearance, if no crane is available</p>															
<b>Air-cooled Data</b>															
Internal Cooling Fan Capacity [CFM]	14,126			14,126			23,543			23,543			N/A		
Approach Temp. [°F]	10.8			16.2			16.2			19.8			N/A		
<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]	4,826			4,826			4,826			4,826			4,826		
Approach Temp. [°F]	5.4			7.2			9			9			10.8		
<i>Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.</i>															
Cooling Water Connection [inches NPT]	2			2			2			2			2		
Cooling Water Flow f. Heating Up ΔT=27°F [gal/min]	44		39.6	52.8	57.2		70.4		61.6	83.7		74.8	88.1		
Cooling Water Pressure Loss at ΔT=27°F [psi]	1.45			2.9			2.9			4.4			4.4		
<b>II. Electrical Data</b>															
<b>Drive Motor</b>															
Motor [hp]	250			300			350			450			450		
<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 %	96.2%			96.2%			96.8%			96.8%			96.8%		
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]	252			320			380			485			485		
<b>Fan Motor (A/C)</b>															
Insulation Class	F			F			F			F			N/A		
Fan Motor [hp]	7.5			7.5			15			15			N/A		
Nominal Efficiency %	91.0%			91.0%			91.7%			91.7%			N/A		
Full Load Amps [FLA]	10.3			10.3			20			20			N/A		
<b>Fan Motor (W/C)</b>															
Insulation Class	F			F			F			F			F		
Fan Motor [hp]	1			1			1			1			1		
Nominal Efficiency %	82.5%			82.5%			82.5%			82.5%			82.5%		
Full Load Amps [FLA]	1.76			1.76			1.76			1.76			1.76		



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

Doc: TI-IDS-2019-FSG  
Version: 1.3  
Rev. Date: 02/04/2022

Model	FSG 300-2			FSG 350-2			FSG 420-2			FSG 500-2			FSG 501-2		
	100	125	145	100	125	145	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*														
Package Full Load Amps [FLA]	303			382			446			549			N/A		
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														
Recommended Disconnect Wire Size [AWG/kcmil]	2 x 4/0 AWG per phase			2 x 300 kcmil per phase or 3 x 3/0 AWG per phase			2 x 400 kcmil per phase or 3 x 4/0 AWG per phase			3 x 300 kcmil per phase			N/A		
Minimum Recommended Ground Wire Size	2 x 4/0 AWG per phase			2 x 300 kcmil per phase or 3 x 3/0 AWG per phase			2 x 400 kcmil per phase or 3 x 4/0 AWG per phase			3 x 300 kcmil per phase			N/A		
<b>Total Package Data (W/C)</b>															
Package Full Load Amps [FLA]	287			360			412			506			545		
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														
Recommended Disconnect Wire Size [AWG/kcmil]	2 x 4/0 AWG per phase			2 x 300 kcmil per phase			2 x 350 kcmil per phase or 3 x 3/0 AWG per phase			2 x 500 kcmil per phase or 3 x 250 kcmil per phase			3 x 300 kcmil per phase		
Minimum Recommended Ground Wire Size	2 x 4/0 AWG per phase			2 x 300 kcmil per phase			2 x 350 kcmil per phase or 3 x 3/0 AWG per phase			2 x 500 kcmil per phase or 3 x 250 kcmil per phase			3 x 300 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).														
Super Soundproofing [dB(A)] with ducting (A/C)   (W/C)	82 / 74			82 / 75			83 / 76			83 / 76			- / 77		
A/C Air Discharge [inches NPT]	80 / 74			80 / 75			81 / 76			81 / 76			- / 77		
A/C Air Discharge [inches NPT]	6 ASME B16.5 class 150			6 ASME B16.5 class 150			6 ASME B16.5 class 150			6 ASME B16.5 class 150			6 ASME B16.5 class 150		
Total Oil Charge (A/C) [gal]	23			23			23			23			N/A		
Total Oil Charge (W/C) [gal]	22.5			22.5			22.5			22.5			22.5		
Maximum Altitude [ft.]	Higher altitudes are permissible only after consultation with the manufacturer.														
Power Input Conduit Opening(s) [inches]	1,640			1,640			1,640			1,640			1,640		
Power Input Conduit Opening(s) [inches]	3 x Ø 3"			3 x Ø 3"			3 x Ø 3"			3 x Ø 3"			3 x Ø 3"		
Dimensions (W x D x H) [in.] (A/C)	152 x 81 3/4 x 107 1/2			152 x 81 3/4 x 107 1/2			152 x 81 3/4 x 107 1/2			152 x 81 3/4 x 107 1/2			N/A		
Dimensions (W x D x H) [in.] (W/C)	143 3/4 x 81 3/4 x 87 2/2			143 3/4 x 81 3/4 x 87 1/2			143 3/4 x 81 3/4 x 87 1/2			143 3/4 x 81 3/4 x 87 1/2			143 3/4 x 81 3/4 x 87 1/2		
Weight [lb] (A/C)	12,236			12,677			13,118			13,779			N/A		
Weight [lb] (W/C)	11,574			12,015			12,456			13,118			13,118		