

| Model | FSG 420-2 SFC i.HOC | | | FSG 500-2 SFC i.HOC | | | |
|--|-------------------------|-----|-----|---|-----|---|--|
| Rated Pressure [psig] | 100 | 125 | 145 | 100 | 125 | 145 | |
| I. Cooling Data | | | | | | | |
| Cooling System Available [Std., Opt.] | A/C, W/C | | | A/C, W/C | | | |
| Standard Ambient Temp. Range [°F] | 40 - 115 | | | 40 - 105 | | | |
| Ventilation Inlet Air Opening [sq. ft. free area] (A/C) Z | 75.3 | | | 86.1 | | | |
| Ventilation Inlet Air Opening [sq. ft. free area] (W/C) Z | 10.8 | | | 10.8 | | | |
| Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C) (W/C) | 0.32 (0.08) / 0.32 | | | 0.32 (0.08) / 0.32 | | | |
| 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> <div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p>A Exhaust Air Duct</p> <p>B Additional Exhaust Duct for Option D2</p> <p>V Exhaust Fan</p> <p>Z Ventilation Inlet Air Opening</p> <p align="center">*minimum clearance, if no crane is available</p> </div> <div style="flex: 2;"> </div> </div> | | | | | | | |
| Air-cooled Data | | | | | | | |
| Internal Cooling Fan Capacity [CFM] | 23,543 | | | 23,543 | | | |
| Water-cooled Data | | | | | | | |
| Internal Cooling Fan Capacity [CFM] | 6,474 | | | 6,474 | | | |
| Cooling Water Connection [inches NPT] | 2 | | | 2 | | | |
| Cooling Water Flow f. Heating Up ΔT=27°F [gal/min] | 70.4 | | | 88.1 | | | |
| Cooling Water Pressure Loss at ΔT=27°F [psi] | 2.9 | | | 4.4 | | | |
| 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> | | | | <p>three-phase star (wye); 4-wire; grounded neutral</p> | | <p>three-phase star (wye); 3-wire; grounded neutral</p> | |
| Drive Motor | | | | | | | |
| Motor [hp] | 350 | | | 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 % | 96.80% | | | 96.80% | | | |
| Enclosure Type | IP55 (TEFC) | | | IP55 (TEFC) | | | |
| Insulation Class | F | | | F | | | |
| Standard Voltage | 460V/3ph/60Hz | | | 460V/3ph/60Hz | | | |
| Full Load Amps [FLA] | 380 | | | 485 | | | |
| Fan Motor (A/C) | | | | | | | |
| Insulation Class | F | | | F | | | |
| Fan Motor [hp] | 15 | | | 15 | | | |
| Nominal Efficiency % | 91.70% | | | 91.70% | | | |
| Full Load Amps [FLA] | 20 | | | 20 | | | |
| Fan Motor (W/C) | | | | | | | |
| Insulation Class | F | | | F | | | |
| Fan Motor [hp] | 2 | | | 2 | | | |
| Nominal Efficiency % | 88.50% | | | 88.50% | | | |
| Full Load Amps [FLA] | 2.9 | | | 2.9 | | | |



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

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

| Model | FSG 420-2 SFC i.HOC | FSG 500-2 SFC i.HOC |
|--|----------------------------|----------------------------|
| Rated Pressure [psig] | 100 125 145 | 100 125 145 |
| Total Package Data (A/C) | | |
| Control Cabinet Class (NEMA) | 12 | 12 |
| Short Circuit Current Rating [kA rms sym] | 65 | 65 |
| Package Full Load Amps [FLA] | 501 | 597 |
| Recommended Disconnect Fuse Size [Amps] | 700 | 800 |
| Recommended Disconnect Wire Size [AWG/kcmil] | 2 x 500 kcmil per phase | 3 x 300 kcmil per phase |
| Minimum Recommended Ground Wire Size | 2 x 500 kcmil per phase | 3 x 300 kcmil per phase |
| Total Package Data (W/C) | | |
| Package Full Load Amps [FLA] | 484 | 581 |
| Recommended Disconnect Fuse Size [Amps] | 700 | 800 |
| Recommended Disconnect Wire Size [AWG/kcmil] | 2 x 500 kcmil per phase | 3 x 300 kcmil per phase |
| Minimum Recommended Ground Wire Size | 2 x 500 kcmil per phase | 3 x 300 kcmil per phase |
| III. Basic Specifications | | |
| Super Soundproofing [dB(A)] w/o ducting (A/C) (W/C) | 83 / 77 | 84 / 77 |
| Super Soundproofing [dB(A)] with ducting (A/C) (W/C) | 81 / 77 | 82 / 77 |
| A/C Air Discharge [inches NPT] | 6 ASME B16.5 class 150 | 6 ASME B16.5 class 150 |
| Total Oil Charge (A/C) [gal] | 23 | 23 |
| Total Oil Charge (W/C) [gal] | 22.5 | 22.5 |
| Maximum Altitude [ft.] | 1,640 | 1,640 |
| Power Input Conduit Opening(s) [in.] | 3 x Ø 3" | 3 x Ø 3" |
| Dimensions (W x D x H) [in.] (A/C) | 182 1/4 x 81 3/4 x 107 7/8 | 182 1/4 x 81 3/4 x 107 7/8 |
| Dimensions (W x D x H) [in.] (W/C) | 176 1/4 x 81 3/4 x 87 3/8 | 176 1/4 x 81 3/4 x 87 3/8 |
| Weight [lb] (A/C) | 17,086 | 18,078 |
| Weight [lb] (W/C) | 16,314 | 17,306 |
| IV. i.HOC System Data | | |
| Blower Motor Nominal Power [hp] | 19.4 | 19.4 |
| Blower Motor Speed [rpm] | 6,010 | 6,010 |
| Blower Motor Efficiency [%] | 90.10% | 90.10% |
| Drum Motor Nominal Power [hp] | 0.16 | 0.16 |
| Drum Motor Speed [rpm] | 1400 | 1,400 |
| Drum Motor Efficiency [%] | 66% | 66% |