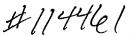
Sofix Corporation Attn: Gerald Eichman 2800 Riverport Rd Chattanooga TN 37406





KAESER Rotary Screw Compressor Model: CSD100 /CSD100T

Direct 1.1 Ratio Drive Air Cooled Series

Compressor specification and advantages

125 psi Discharge pressure 361 cfm Capacity 460V/3Ph/60Hz Electrical requirement Drive motor 100 hp 3600 rpm Drive motor speed 93.6 % Drive motor efficiency Noise level 73 dB(A) Compressed air discharge connection 2" NPT Dimensions in inches (L x W x H) 76.375 x 51.275 x 79.375 inches CSD100 3070 lbs. Estimated weight CSD100T 3649 lbs. Sofix Corporation Attn: Gerald Eichman 2800 Riverport Rd Chattanooga TN 37406



Product features and advantages

Compressor

- Single-stage, oil-injected rotary screw compressor with the power saving Sigma Profile airend.

Electric Motor/Drive

- TEFC, EPAct-compliant efficiency, drive motor with thermal overload protection, minimum 1.15 service factory, 150% minimum pull-up torque and Class F insulation. - One-to-one direct drive provides maintenance free coupling and maximum transmission efficiency.

Starter

- Magnetic Wye-delta motor starter mounted in a NEMA 12 control panel.

Air/Coolant System

- Two-stage 4-mircron air intake filter with cleanable and replaceable element.

- ASME fluid separator tank with 3-stage separation ensures minimal fluid carryover of 2ppm or less (by weight).

- Filter mat on fluid and air coolers simplifies cooler maintenance.

Dryer (with CSD100T model)

- Fan motor enclosure	TEAO
- Input kW	2.4
- Refrigerant	R 134a
- Dew point pressure	0.38 °F

Protective Devices

- Built-in protective devices include safety pressure relief valve(s), emergency stop button, fluid level sight glasses and safety interlock switches on maintenance doors.

Enclosure

- Soundproofed enclosure features lined panels and a durable powder coated finish. Compressor is mounted on solid base frame with a solid steel floor and anti-vibration mounts.
- Additional vibration isolation of airend, motor and separtor tank is standard. Panels are removeable for easy maintenance access.

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Sigma Control

- Sigma Control Basic PC-based control system with Intel processor and real-time operating system. It monitors all critical and control functions and maintains a non-volatile memory of the last 100 messages for ease of trouble-shooting and record keeping.
- Remote start/stop, programmable timers and two-unit sequencing are standard features.
- The Sigma Control offers the choice of three communication ports, R 232 modem printer, R 485 lead-lag control and Profibus D-P. Idle-period timer shuts the compressor down if air is not required for a preset period dependent on selected control mode.

Recommendations for Installation

- Review Technical Specifications for temperature limits
- Adequate compressor room ventilation to include both inlet and outlet openings
- Main disconnect must be provided by the user as determined by local regulations (recommend fused-type)
- Follow applicable NEC or local electrical code for wire and fuse sizing and installation

Options and accessories available

- ASME receiver tank
- Stand alone refrigerant dryer
- Heat exchanger
- Eco-condensate drain
- KOR coalescing oil removal filter



INSTALLATION DATA SHEET



Doc. No.: TI.IDS-022

CSD 100 - 125

Date: 03-09-07

Version 1.5					
MODEL	CSD 100	CSD 125			
COOLING DATA:					
Cooling System Available Type of heat exchangers for water-cooled units Standard Ambient Temp. Range [F] Air inlet opening [sq. ft.] (A/C) Air inlet opening [sq. ft.] (W/C) Cooling Fan Capacity [cfm] (forced ventilation with exhaust fan) (A/C) Cooling Fan Capacity [cfm] (forced ventilation with exhaust fan) (W/C) Internal Cooling Fan Capacity [cfm] (exhaust air used for space heating) (A/C) oil & air coolers motor Internal Cooling Fan Capacity [cfm] (exhaust air used for space heating) (W/C) Max. Additional Pressure Drop for Ducts [inch Water Column] Recommended Heating Duct (W x H) [in] Approach Temp. (A/C) [°F] Approach Temp. (W/C) [°F] Typical Heat Rejected (A/C) [BTU/HR] oil & air coolers motor Typical Heat Rejected (W/C) [BTU/HR] (into Cooling Water) Typical Heat Rejected (W/C) [BTU/HR] (into Cooling Air)	1001 1/4 40 X 40 10.8 5.4 319,801	A / C, W / C stainless steel, plate type 40 - 115 17.2 3.2 17657 2766 7652 6122			
CONNECTIONS [in.]: A/C Air Discharge with NPT Adapter W/C Air Discharge with NPT Adapter Cooling Water Connection(s) [NPT] Power Input Conduit Opening(s)	2 2 1 2 X 2 1⁄4	2 2 1 2 X 2 1/4			
NOISE LEVEL DATA (Measured in dB(A) at 1 m (approx. 40 in.) According to CAGI): A/C With Super Soundproofing W/C With Super Soundproofing	73 73	74 74			
ENVELOPE DIMENSIONS & WEIGHT Length [in.] Width [in.] Height [in.] Floor Space [sq. ft.] Weight [lb] # Estimated Shipping Weight [lb]	79 1/8 51 1/8 79 ¾ 28.09 4200 4354	79 1/8 51 1/8 79 ¾ 28.09 4400 4554			



INSTALLATION DATA SHEET



Doc. No.: TI.IDS-022

Version 1.5

CSD 100 - 125

Date: 03-09-07

" MODEL	CSD 100	CSD 405
	- CSD 100 ·	CSD 125
ELECTRICAL DATA1:		
DRIVE MOTOR		
NEMA Nominal Efficiency [%]	93.6%	95.0%
Full Load Amps @ 208V/3ph/60 Hz/YD [FLA] Full Load Amps @ 230V/3ph/60 Hz/YD [FLA] Full Load Amps @ 460V/3ph/60 Hz/YD [FLA] Full Load Amps @ 575V/3ph/60 Hz/YD [FLA]	308 278 . 141 111	343 310 155 124
Drive Motor Nominal Power [HP] Drive Motor Insulation Class Drive Motor Enclosure Type	100 F TEFC	, 125 F TEFC
Drive Motor Overload Set Point [A] @ 230V/3ph/60Hz/YD Drive Motor Overload Set Point [A] @ 460V/3ph/60Hz/YD Drive Motor Overload Set Point [A] @ 575V/3ph/60Hz/YD	117 90 71	198 100 80
FAN MOTOR (A/C)		-
Enclosure Type Insulation Class Fan Motor [HP], Single Speed Nominal Efficiency [%] Full Load Amps [FLA] @ 208V/3ph/60 Hz/YD Full Load Amps [FLA] @ 460V/3ph/60 Hz/YD Full Load Amps [FLA] @ 575V/3ph/60 Hz/YD Full Load Amps [FLA] @ 575V/3ph/60 Hz/YD Fan Motor Overload Set Point @208V/3 ph/60 Hz/YD Fan Motor Overload Set Point @230V/3 ph/60 Hz/YD Fan Motor Overload Set Point @460V/3 ph/60 Hz/YD Fan Motor Overload Set Point @575V/3 ph/60 Hz/YD Fan Motor Overload Set Point @575V/3 ph/60 Hz/YD	TEFC F 3 84% 12 11 5.4 4.3 13 12 6	TEFC F 3 84% 12 11 5.4 4.3 13 12 6
FAN MOTOR (W/C) Enclosure Type Insulation Class Fan Motor [HP], Single Speed Nominal Efficiency [%] Full Load Amps [FLA] @ 115V/1ph/60 Hz	Totally Enclosed (IP 44) F 0.13 60% 1.45	Totally Enclosed (IP 44) F 0.13 60% 1.45



INSTALLATION DATA SHEET



Doc. No.: TI.IDS-022 Version 1.5

CSD 100 - 125

Date: 03-09-07

VOISION 1.3					Date: 05-05-07	
	MODEL	CSD 100		CSD 125		
PACKAGE DATA Control Cabinet Class (NEMA) Continuous Duty [Hours / Day]		12 24		12 24		
Package Full Load Amps @ 208V/3ph/60 Hz/YD (A/C) [FLA] Package Full Load Amps @ 230V/3ph/60 Hz/YD (A/C) [FLA] Package Full Load Amps @ 460V/3ph/60 Hz/YD (A/C) [FLA] Package Full Load Amps @ 575V/3ph/60 Hz/YD (A/C) [FLA] Package Full Load Amps @ 208V/3ph/60 Hz/YD (W/C) [FLA] Package Full Load Amps @ 230V/3ph/60 Hz/YD (W/C) [FLA] Package Full Load Amps @ 230V/3ph/60 Hz/YD (W/C) [FLA] Package Full Load Amps @ 460V/3ph/60 Hz/YD (W/C) [FLA]		320 289 146 115 309 279		354 321 160 128 344 311		
Package Full Load Amps @ 575V/3ph/60 Hz/YD (W/C) [FLA] Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz/YD * Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz/YD * Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz/YD * Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz/YD * Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz/YD ** Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz/YD ** Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz/YD ** Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz/YD ** Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz/YD **			42 12 W/C 450 400 200 150 4/0 × 2 3/0 × 2 4/0 2/0	1	56 25 W/C 500 450 225 175 250 x 2 4/0 x 2 4/0 3/0	
OIL SYSTEM DATA: Oil System Capacity (A/C) [gal.] Oil System Capacity (W/C) [gal.] Typical Oil Consumption [fl. oz./100 h]		14 11 27.4		14 11 31.8		
Air Inlet Filter Filter Mat (optional) Filter Mat for Control Cabinet Fluid Filter Fluid Filter Fluid Separator Kit Maintenance Kit for Optional 5-year Warranty Maintenance Kit for Optional 5-year Warranty, with food-grade lubricant		6.4148.0 6.1945.0 6.3572.0 6.3465.0 6.3623.0 AN5YRKT-CSD2 AN5YRKITCSD2F		6.4148.0 6.1945.0 6.3572.0 6.3465.0 6.3623.0 AN5YRKT-CSD2 AN5YRKITCSD2F		

^{1.} Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EPACT compliant.

Main power supply and overcurrent protection must be installed by a qualified electrician in accordance with NEC, OSHA, and any applicable local codes.

^{*} Dual-element time-delay fuse; based on 2005 NEC 240.6, 430.52, and Tables 430.52, 430.148,and 430.150.

^{**} Based on 2005 NEC 110.14(C), 220.3, 310.15, Table 310.16, 430.6, 430.22, 430.24 and Tables 430.148 and 430.150. Multi-strand copper core wire at 40° C ambient temperature, with 75° temperature rating, and an insulation rating of 90° C.

[#] Weights will vary depending on airend used.