

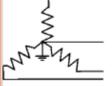
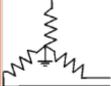


Installation Data Sheet
 Series: 1:1 Direct Drive CSDX.6 SFC
 Document No.: TI-DATA-2023-SFC 75MT 90MT 110MT
 Preliminary Data Release Date: 05/30/2023
 Version 1.1

Model	SFC 75M T			SFC 90M T					SFC 110M T										
	Rated Pressure [psig]	100	110	125	100	110	125	150	175	217	100	110	125	150	175	217			
I. COOLING DATA																			
Cooling System Available [Std., Opt.]	A/C, W/C			A/C, W/C					TBD										
Standard Ambient Temp. Range [°F]	40-115			40 - 115					TBD										
VENTILATION OF COMPRESSOR ROOM																			
Air Inlet Opening [sq. ft. free area] (A/C) Z	25.8			30.1					TBD										
Air Inlet Opening [sq. ft. free area] (W/C) Z	9.7			10.8					TBD										
Solution A (forced ventilation with exhaust fan) as shown in service manual																			
Cooling Fan Capacity [CFM] (A/C)	20,011			22,955					TBD										
Cooling Fan Capacity [CFM] (W/C)	7,652			8,240					TBD										
Solution B (exhaust air used for space heating) as shown in service manual																			
Internal Cooling Fan Capacity [CFM] (A/C)	Compressor	Dryer		Compressor	Dryer		Compressor	Dryer		Compressor	Dryer		Compressor	Dryer					
	7,063	TBD		8,240	TBD		TBD	TBD		TBD	TBD		TBD	TBD					
Internal Cooling Fan Capacity [CFM] (W/C)	1,001			1,001					TBD										
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C) (W/C)	0.24 / 0.12			0.24 / 0.12					TBD										
Exhaust Air Opening Reference Dimensions (L x W) [in]	39 x 39			39 x 39					TBD										
<p align="center"> See drawing for actual dimensions. The actual individual duct dimension will vary for every installation based on actual length, number and type of bends, accessories etc. </p>																			
<p align="center"> Model shown for reference only Actual Duct size may vary with installation </p>																			
<table border="0" style="width:100%"> <tr> <td style="border: 1px solid green; padding: 5px;">Solution A Exhaust Fan</td> <td rowspan="3" style="vertical-align: middle; text-align: center; padding: 0 20px;"><i>Coming Soon</i></td> </tr> <tr> <td style="border: 1px solid red; padding: 5px;">Solution B Exhaust Duct</td> </tr> <tr> <td style="border: 1px solid blue; padding: 5px;">Ventilation of Compressor Room Z</td> </tr> </table>																Solution A Exhaust Fan	<i>Coming Soon</i>	Solution B Exhaust Duct	Ventilation of Compressor Room Z
Solution A Exhaust Fan	<i>Coming Soon</i>																		
Solution B Exhaust Duct																			
Ventilation of Compressor Room Z																			
AIR COOLED DATA																			
Internal Cooling Fan Capacity [CFM]	7,063			8,240					TBD										
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.			TBD					TBD										
Typical Heat Rejected [BTU / HR]	Based on highest input kW of machine.			TBD					TBD										
Fan Motor [HP]	4.0			4.0					4.0										
WATER COOLED DATA																			
Type of heat exchangers	Stainless steel, plate type			Stainless steel, plate type					Stainless steel, plate type										
Internal Cooling Fan Capacity [CFM]	1001			1001					1001										
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.			TBD					TBD										
Typical Heat Rejected into Cooling Water [BTU / HR]	Based on highest input kW of machine.			TBD					TBD										
Heat Rejected into Cooling Air [BTU / HR]	TBD			TBD					TBD										
Max. outlet temperature [°F]	Discharge temperature limited for non-treated water (to prevent calcification).			TBD					TBD										
Temperature differential between inlet water and max. discharge water temperature [°F]	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD					
Max. inlet water temperature [°F]	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD					
Min. cooling water flow [gpm]	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD					
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD					
Pressure drop across compressor package [psi] WITH cooling water throttling valve	TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD		TBD	TBD					



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II. ELECTRICAL DATA <i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>																	
Drive Motor																	
Motor HP	100			125					TBD								
Insulation Class	F			F					TBD								
Standard Voltage	460V			460V					TBD								
Type	SynRM			SynRM					TBD								
FAN MOTOR (A/C)																	
Insulation Class	F			F					F								
Fan Motor [HP]	4.0			4.0					4.0								
Full Load Amps [FLA] @ 460V/3ph/60Hz	TBD			TBD					TBD								
Full Load Amps [FLA] @ 575V/3ph/60Hz	TBD			TBD					TBD								
FAN MOTOR (W/C)																	
Insulation Class	F			F					F								
Fan Motor [HP], Single Speed	0.13			0.13					0.13								
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.45			1.45					TBD								
Full Load Amps [FLA] @ 575V/3ph/60Hz	CF			CF					TBD								
TOTAL PACKAGE DATA (A/C)																	
Do NOT operate package on any unsymmetrical power supply. Also do NOT operate package on power supplies like, 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.																	
					three-phase star (wye); 4-wire; grounded neutral						three-phase star (wye); 3-wire; grounded neutral						
Continuous Duty [Hours per day]	24			24					TBD								
Control Cabinet Class (NEMA)	12			12					TBD								
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*			50					TBD								
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*			TBD					TBD								
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	158			186					TBD								
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	TBD			TBD					TBD								
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	225			250					TBD								
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	*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			TBD					TBD								
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	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.			4/0 AWG per phase and ground					300 kcmil per phase and ground				TBD				
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz				TBD					TBD				TBD				
TOTAL PACKAGE DATA (W/C)																	
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	155			183					TBD								
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	TBD			TBD					TBD								



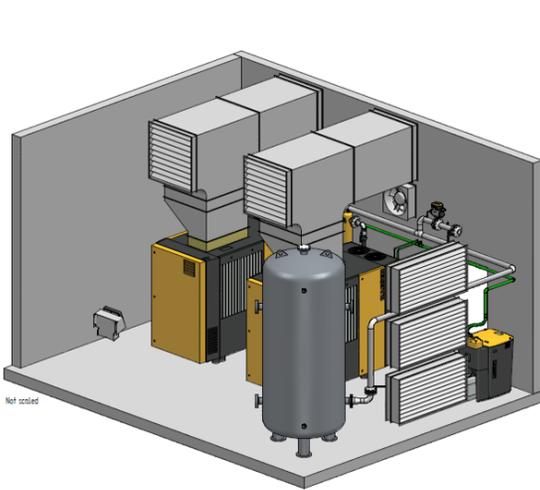
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INSTALLATION and MAINTENANCE DATA																
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]	73			74				TBD							
W/C with Super Soundproofing [dB(A)]		73			74				TBD							
A/C Air Discharge [inches NPT or Flange]					2 NPT											
W/C Air Discharge [inches NPT or Flange]					2 NPT											
Cooling Water Connection [inches NPT or Flange]					1 1/4											
Power Input Conduit Opening(s) [inches]					3											
Condensate Drain Connection [NPT]					1/4											
Width [inches]					99 1/4											
Depth [inches]					50 3/8											
Height [inches]					76 3/4											
Floor Space [sq. ft.]					34 5/7											
Weight (A/C) [lb]	Weight may vary based on airend selected.	4,365			4,740				TBD							
Weight (W/C) [lb]		4,365			4,740				TBD							
COMPRESSOR FLUID DATA																
Fluid Capacity (A/C) [gal]		14.4			14.4				TBD							
Fluid Capacity (W/C) [gal]		12.0			12.0				TBD							
Flow Rate [gal/min]		34.3			34.3				TBD							
Typical Oil Consumption [fl. Oz./100 h]		14.0			16.6				TBD							
Standard Fluid Type					Sigma S-460											
MAINTENANCE PARTS																
Air Inlet Filter					4E0302.0											
Filter Mat (optional)					6.1945.0											
Filter Mat for Control Cabinet					7.4519.00040 (x4) & 7.4519.00010 (x2)											
Fluid Filter					6.4693.0											
Fluid Separator Kit					6.3623.0											
Maintenance Kit for Optional 5-year warranty					ANAKCSDX6SFS											
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant					ANAKCSDX6SFF											
DRYER DATA - FOR T MODELS																
Dryer Model		ABT200			ABT200				ABT200							
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]		TBD			TBD				TBD							
Nominal Pressure Drop at Rated Flow [psid]		TBD			TBD				TBD							
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.				Class 4 - 6 based on ambient conditions											
REFRIGERATION SYSTEM DATA - FOR T MODELS																
Compressor Type		TBD			TBD				TBD							
BTU/Refrigeration ASHRAE		TBD			TBD				TBD							
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	TBD			TBD				TBD							
Refrigerant Type					R-513A											
GWP (Global Warming Potential)					631											
CO2 equivalent [t]					0.69											
Refrigerant Charge [lb]					2.43											
Air Flow Across Condenser [CFM]		TBD			TBD				TBD							

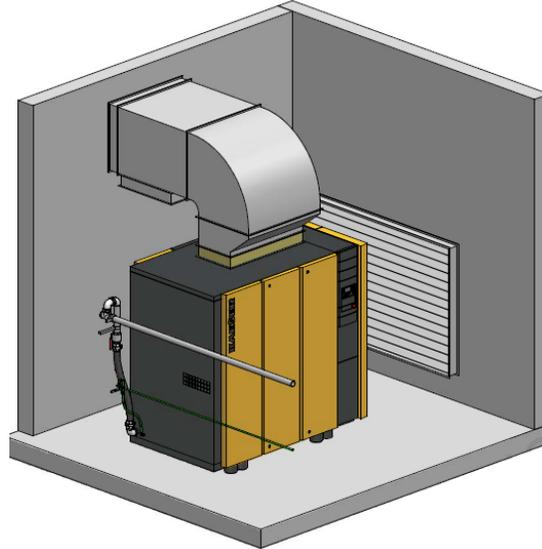
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SAMPLE SKETCHES

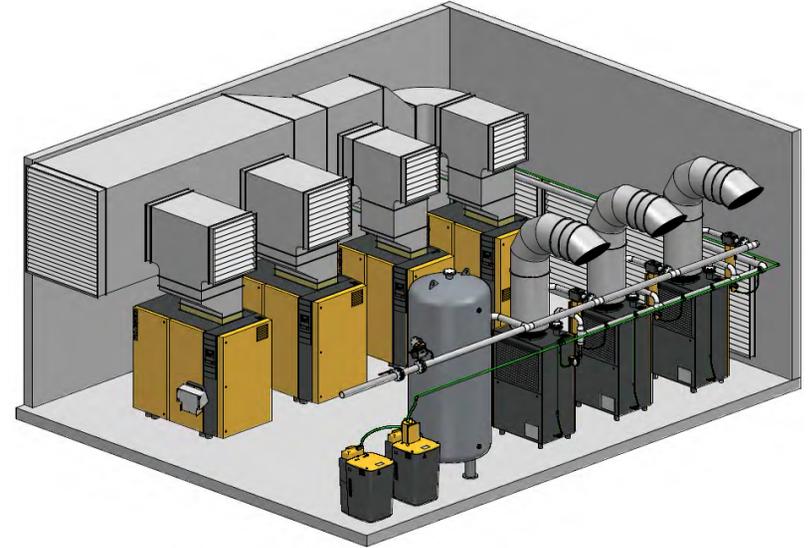
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



2x CSD 125 T / 2x FE-185D



Duct / Pipe connection CSDX.6



Example designs only, not for construction purposes.