

## Series: 1:1 Direct Drive CSDX.6 SFC

Document No.: TI-DATA-2023-SFC 75M 90M 110M Preliminary Data Release Date: 05/30/2023

Version 1.1

Model		SFC 75M							SFC	90M			SFC 110M					
Rated Pressure [psig]	100	110	125	150	175	217	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					TE	3D		
Standard Ambient Temp. Range [°F]			40 -	115					40 -	115					TE	3D		
VENTILATION OF COMPRESSOR ROOM							_											
Air Inlet Opening [sq. ft. free area] (A/C) Z			20	).5				23.7						TBD				
Air Inlet Opening [sq. ft. free area] (W/C) Z			5	.4			6.5						TBD					
Solution A (forced ventilation with exhaust fan) as shown in service manual																		
Cooling Fan Capacity [CFM] (A/C)		15,892					18,834						TBD					
Cooling Fan Capacity [CFM] (W/C)		3,532					4,120						TBD					
Solution B (exhaust air used for space heating) as shown in service manual																		
Internal Cooling Fan Capacity [CFM] (A/C)		7,063						8,240						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] See drawing for actual dimensions. The actual dimension will vary for installation based on actual length, number type of bends, accessories	ery and		39 :	k 39					39 x	39					TE	3D		

Model shown for reference only Actual Duct size may vary with installation

Solution A Exhaust Fan

Coming Soon

Solution B Exhaust Duct

Ventilation of Compressor Room Z

AIR COOLED DATA									
Internal Cooling Fan Capacity [CFM]	7,	063	8,2	240	TBD				
Approach Temp. [°F]  Reference conditions: 14.5 psia, 30% relations temperation humidity and 68°F inlet air temperations.		2.6	12.6	TBD	TBD				
Typical Heat Rejected [BTU / HR] Based on highest input kW of mach	ne. 302	2,000	TE	BD	TE	3D			
Fan Motor [HP]	4	ł.0	4	.0	4	.0			
WATER COOLED DATA									
Type of heat exchangers	Stainless ste	eel, plate type	Stainless ste	el, plate type	TBD				
Internal Cooling Fan Capacity [CFM]	1,	001	1,0	01	TBD				
Approach Temp. [°F] Reference conditions: 14.5 psia, 30% related humidity and 68°F inlet air temperate		1.8	1	.8	TBD				
Typical Heat Rejected into Cooling Water [BTU / HR]  Based on highest input kW of mach	ne. T	BD	TE	BD	TBD				
Heat Rejected into Cooling Air [BTU / HR]	Т	BD	TE	BD	TBD				
Max. outlet temperature [°F]  Discharge temperature limited for non-treal water (to prevent calcification)		BD	TE	BD	TBD				
Temperature differential between inlet water and max. discharge water temperature [°F]	TBD	TBD	TBD	TBD	TBD	TBD			
Max. inlet water temperature [°F]	TBD	TBD	TBD	TBD	TBD	TBD			
Min. cooling water flow [gpm]	TBD	TBD	TBD	TBD	TBD	TBD			
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	TBD	TBD	TBD	TBD	TBD	TBD			
Pressure drop across compressor package [psi] WITH cooling water throttling valve	TBD	TBD	TBD	TBD	TBD	TBD			



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Rated Pressure [psig]			100 110 125 150 175 217					
II. ELECTRICAL DATA	Electrical data may vary in accordance	with motor manufacturer's specifications		100   110   120   100   170   217				
Drive Motor		,						
Motor HP		100	125	150				
Insulation Class		F	F	F				
Standard Voltage		460V	460V	460V				
Type		SynRM	SynRM	SynRM				
FAN MOTOR (A/C)		3,						
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	1.45				
Full Load Amps [FLA] @ 575V/3ph/60Hz		CF	CF	CF				
TOTAL PACKAGE DATA (A/C)			<u> </u>					
like, for example, a three-phase (open) delta or three-phase star with no requires a symmetrical three-phase power supply transformer with a Wright. In a symmetrical three-phase supply the phase angles and voltage are not suitable.	YE configuration output as shown on the	4-wire; grounded neutral		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	50	TBD				
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*	TBD	TBD	TBD				
Package Full Load Amps @ 460V/3ph/60Hz [FLA]		152	180	TBD				
Package Full Load Amps @ 575V/3ph/60Hz [FLA]		TBD	TBD	TBD				
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	*Time delay (dual element) fuse; Class J ≤ 600A (e.q. AJT) / Class L > 600A (e.q. A4BQ).	225	250	TBD				
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250	TBD	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	4/0 AWG per phase and ground	300 kcmil per phase and ground	TBD				
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	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,	TBD	TBD	TBD				
	670.4(A) and other local codes.							
TOTAL PACKAGE DATA (W/C)	670.4(A) and other local codes.							
TOTAL PACKAGE DATA (W/C) Package Full Load Amps @ 460V/3ph/60Hz [FLA] Package Full Load Amps @ 575V/3ph/60Hz [FLA]	670.4(A) and other local codes.	148 TBD	176 TBD	TBD TBD				



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Version 1.1 Model SFC 75M SFC 90M **SFC 110M** 100 | 110 | 125 | 150 | 175 | 217 | 100 | 110 | 125 | 150 | 175 | 217 | 100 | 110 | 125 | 150 | 175 | 217 Rated Pressure [psig] **INSTALLATION and MAINTENANCE DATA** A/C with Super Soundproofing [dB(A)] 73 74 TBD SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2] 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] 82 5/8 Depth [inches] 50 3/8 Height [inches] 76 3/4 Floor Space [sq. ft.] 28 85/94 3.748 TBD Weight (A/C) [lb] 4.123 Weight may vary based on airend selected Weight (W/C) [lb] 3,748 4,123 TBD COMPRESSOR FLUID DATA Fluid Capacity (A/C) [gal] 14.4 14.4 TBD Fluid Capacity (W/C) [gal] 12 TBD 12 Flow Rate [gal/min] 34.3 34.3 TBD Typical Oil Consumption [fl. Oz./100 h] 14 TBD TBD Standard Fluid Type Sigma S-460 Sigma S-460 Sigma S-460 MAINTENANCE PARTS Air Inlet Filter 4E0302.0 6.1945.0 Filter Mat (optional) 7.4519.00040 (x4) & 7.4519.00010 (x2) Filter Mat for Control Cabinet 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



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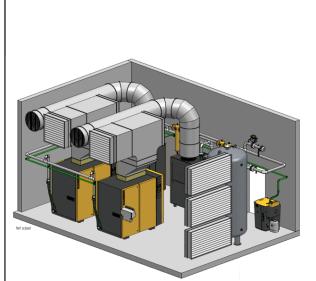
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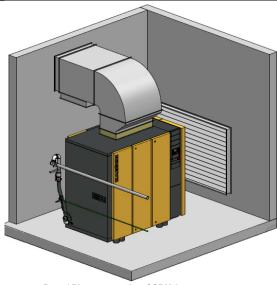
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Rated Pressure [psig]	100	110	125	150	175	217	100	110	125	150	175	217	100	110	125	150	175	217	

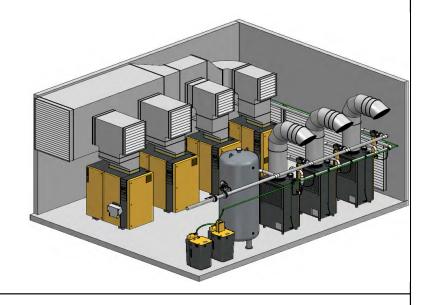
# SAMPLE SKETCHES

# Sample Installation Planning Examples of room ventilation and ductwork

Please note the upsizing required for compressor exhaust ducts

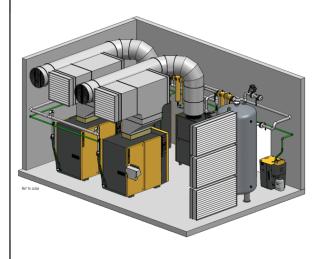






2x CSDX 125 / 2x TF 174 / 2x FFG-185D

**Duct / Pipe connection CSDX.6** 



Example designs only, not for construction purposes.

2x CSDX 125 / 2x TF 340 / 2x FFG-185D