Series: Direct Drive HSD SFC

Document No.: TI-DATA-2016-SFC 410 - 575V

Version: 1.1

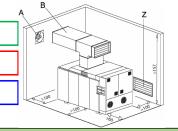
Revision Date: 04/17/2023

Model			SFC 410 - 575V/3ph/60Hz					
Rated Pressure [psig]		100	110	125	145	175		
I. COOLING DATA								
Cooling System Available [Std., Opt.]		W/C						
Standard Ambient Temp. Range [°F]		40 - 115						
VENTILATION OF COMPRESSOR ROOM								
Air Inlet Opening [sq. ft. free area] (W/C) Z		19.4						
Solution A (forced ventilation with exhaust fan) as shown ir	n service manual							
Cooling Fan Capacity [CFM] (W/C)		14,714						
Solution B (exhaust air used for space heating) as shown i	n service manual							
Internal Cooling Fan Capacity [CFM] (W/C)		5,886						
Max. Additional Pressure Drop for Ducts [inch Water Column] (W/C)		0.16						
Exhaust Air Opening Reference Dimensions (L x W) [in]	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.	s, 36 x 67						
Model shown for reference only								
Actual Duct size may vary with installation								

Solution B Exhaust Duct

Solution A Exhaust Fan

Ventilation of Compressor Room Z



WATER COOLED DATA				
Type of heat exchangers	stainless steel, plate-type			
Internal Cooling Fan Capacity [CFM]	5,886			
Approach Temp. [°F] Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	1 18			
Typical Heat Rejected into Cooling Water [BTU / HR] Based on highest input kW of machine.	nine. 1,148,000			
Heat Rejected into Cooling Air [BTU / HR]	125,000			
Max. outlet temperature [°F] Discharge temperature limited for non-treated water (to prevent calcification).	130			
Temperature differential between inlet water and max. discharge water temperature [°F]	27	54		
Max. inlet water temperature [°F]	105	68		
Min. cooling water flow [gpm]	70.5 / 44	35.2 / 22		
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	17.5 / 7.5	4.5 / 3		
Pressure drop across compressor package [psi] WITH cooling water throttling valve	24 / 10	6 / 4		

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II. ELECTRICAL DATA	Electrical data may vary in accordance with motor manufacture	er's specific	cations. I	Motors ar	e EISA con	pliant.		
DRIVE MOTOR								
Motor HP	Motor	A		350				
Insulation Class	Motor	Α	F					
Standard Voltage	Motor	Α	575V/3ph/60Hz					
Full Load Amps [FLA] @ 460V/3ph/60Hz	Motor	Α	Not Available					
Full Load Amps [FLA] @ 575V/3ph/60Hz	Motor	Α		308				
Motor HP	Motor	В	250					
nsulation Class	Motor	В		F				
Standard Voltage	Motor	В	5	575V/3ph/	60Hz			
Full Load Amps [FLA] @ 460V/3ph/60Hz	Motor	В		Not Availa	able			
Full Load Amps [FLA] @ 575V/3ph/60Hz	Motor	В		200				
FAN MOTOR (W/C)								
Insulation Class				F				
Fan Motor [HP], Single Speed				1.1				
Full Load Amps [FLA] @ 460V/3ph/60Hz				Not Availa	able			
Full Load Amps [FLA] @ 575V/3ph/60Hz			2.4					
TOTAL PACKAGE DATA (W/C)								
Do NOT operate package on any unsymmetrical power supply. Also do NOT o	perate package on power three-phase star (wye);	three-phase star (wye);					
supplies like, for example, a three-phase (open) delta or three-phase star with	es like, for example, a three-phase (open) delta or three-phase star with non-grounded neutral. The ne requires a symmetrical three-phase power supply transformer with a WYE configuration output as grounded neutral			3-wire; grounded neutral				
shown on the right. In a symmetrical three-phase supply the phase angles and	netrical three-phase power supply transformer with a WYE configuration output as grounded neutral grounded neutral			ground	eu neutrai			
Other power supplies are not suitable.	Tollagos are all the same.	2						
ntinuous Duty [Hours per day]			24					
Control Cabinet Class (NEMA)			12					
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see belo	w* Not Available						
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see belo							
Package Full Load Amps @ 460V/3ph/60Hz [FLA]				Not Availa	able			
Package Full Load Amps @ 575V/3ph/60Hz [FLA]				551				
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	*Time delay (dual element) force Olera La 2000 (e.g. ALT) (Olera La 2000 (e.g.		Not Available					
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	*Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e. A4BC Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.2).	800					
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz								
	The following multi-strand copper core wires are given according to 2020 NE 310.14, 310.15, 310.16 and table 310.16 adjusted for 40°C ambient temperature.	ature.						
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	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. 310.14, 310.15, 310.16, 430.6, 430.22, 430.24, 670.4(A) and other local code	3,				und		

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Model SFC 410 - 575V/3ph/60Hz Rated Pressure [psig] 100 110 125 145 175 **INSTALLATION and MAINTENANCE DATA** W/C with Super Soundproofing [dB(A)] SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using 75 W/C Air Discharge [inches NPT or Flange] 6 ASME B16.5 class 150 Cooling Water Connection [inches NPT or Flange] 4 x 2 NPT Power Input Conduit Opening(s) [inches] 4 x 3 in Condensate Drain Connection [NPT] 2 x 1/2 Width [inches] 172 Depth [inches] 84 1/2 Height [inches] 92 1/2 Floor Space [sq. ft.] 101 Weight (W/C) [lb] 20.091 Weight may vary based on airend selected. **COMPRESSOR FLUID DATA** Fluid Capacity (W/C) [gal] 2 x 31.7 Flow Rate [gal/min] 2 x 73 Typical Oil Consumption [fl. Oz./100 h] 66.1 Standard Fluid Type Sigma S-460 **MAINTENANCE PARTS** Air Inlet Filter 4E0305.0 (x2) Filter Mat (optional) 402703.0 (x2) Filter Mat for Control Cabinet 7.4519.00010 (x6); 5.3353.00020 ; 7.4519.0 (x2) Fluid Filter 6.4693.0 (x6) Fluid Separator Kit 6.3559.00010 (x2) Maintenance Kit for Optional 5-year warranty ANAKHSDSFC3S Maintenance Kit for Optional 5-year warranty, with food-grade lubricant ANAKHSDSFC3F

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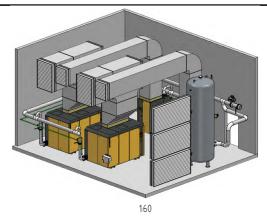
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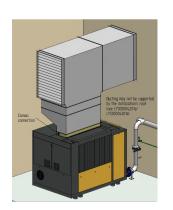
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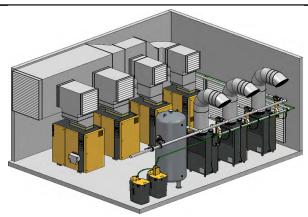
SAMPLE SKETCHES

Sample Installation Planning Examples of room ventilation and ductwork

Please note the upsizing required for compressor exhaust ducts







Example designs only, not for construction purposes.