

Installation Data Sheet

Series: 1:1 Direct Drive ASD.4 SFC

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	Document No.: TI-DATA-2019-SI	FC 18 22 3	30S 30						
	Version: 2.9								
	Revision Date: 04/17/			_					
Model			C 18	_	FC 22	SFC 30S	SFC 30	T	
Rated Pressure [ps	sig]	110	125	110	125	110 125 145 175 190	110 125 145 175	190 217	
I. COOLING DATA			10		A (O	1 4/0			
Cooling System Available [Std., Opt.]			/C 115		A/C) - 115	A/C	A/C		
Standard Ambient Temp. Range [°F]		40 -	115	40) - 115	40 - 115	40-115		
VENTILATION OF COMPRESSOR ROOM		6	.5	1	7.5	8.6	9.7		
Air Inlet Opening [sq. ft. free area] (A/C) Z		0	.5		7.5	0.0	9.7		
Solution A (forced ventilation with exhaust fan) as shown in service	vice manual			_					
Cooling Fan Capacity [CFM] (A/C)		47	'09	5	5,297	6,474	7,652		
Solution B (exhaust air used for space heating) as shown in ser	vice manual								
Internal Cooling Fan Capacity [CFM] (A/C)					2,649	2,649	3,119		
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)		0.	24		0.24	0.24	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.	23 :	x 23	2:	3 x 23	23 x 23	23 x 23		
Model shown for reference only Actual Duct size may vary with installation	A B Z								
Solution A Exhaust Fan	15								
Solution B Exhaust Duct									
Ventilation of Compressor Room Z	40								
AIR COOLED DATA									
Internal Cooling Fan Capacity [CFM]		26	49	2	2,649	2,649	3,119		
Approach Tomp [°E]	Reference conditions: 14.5 psia, 30% relative humidity								

AIR COOLED DATA										
Internal Cooling Fan Capacity [CFM]		2649	2,649	2,649	2,649		3,119			
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	10.8	10.8	12.6	10.8	16.2	12.6			
Typical Heat Rejected [BTU / HR]		78,500	92,000	92,000 104,000			125,000			
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II. ELECTRICAL DATA Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.

Motor HP	25	30	40	40
Insulation Class	F	F	F	F
Standard Voltage	460V/3ph/60Hz	460V/3ph/60Hz	460V/3ph/60Hz	460V/3ph/60Hz
Туре	SynRM(IES2)	SynRM(IES2)	SynRM(IES2)	SynRM(IES2)
FAN MOTOR (A/C)				
Insulation Class	F	F	F	F
Fan Motor [HP], oilcooler aircooler	0.75	0.75	0.75	0.75
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.5	1.5	1.5	1.5
Full Load Amps [FLA] @ 575V/3ph/60Hz	CF	CF	CF	CF

DRIVE MOTOR



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	Version: 2.9	1000							
BA - J-1	Revision Date: 04/17		050.00	050.000	050.00				
Model		SFC 18	SFC 22	SFC 30S	SFC 30				
Rated Pressure [psig		110 125	110 125	110 125 145 175 190	110 125 145 175 190 217				
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.		Chitting.	three-phase star (v 4-wire; grounded neutral	vye);	three-phase star (wye 3-wire; grounded neutral				
Continuous Duty [Hours per day]		24	24	24	24				
Control Cabinet Class (NEMA)		12	12	12	12				
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*	50	50	50	50				
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*	CF	CF	CF	CF				
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	,	42	50	54	64				
Package Full Load Amps @ 575V/3ph/60Hz [FLA]		CF	41	CF	49				
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	*Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) / Class L > 600A (e.g. A4BQ).	60	70	80	90				
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	CF	60	CF	70				
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	6 AWG per phase and ground	4 AWG per phase and ground	4 AWG per phase and ground	3 AWG per phase and ground				
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	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.	CF	6 AWG per phase and ground	CF	4 AWG per phase and ground				
III. 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]	68	69	69	70				
A/C Air Discharge [inches NPT]		1 1/4	1 1/4	1 1/4	1 1/4				
Power Input Conduit Opening(s) [inches]		2 1/4	2 1/4	2 1/4	2 1/4				
Condensate Drain Connection [NPT]		1/4	1/4	1/4	1/4				
Width [inches]		60 5/8	60 5/8	60 5/8	60 5/8				
Depth [inches]		35 3/8	35 3/8	35 3/8	35 3/8				
Height [inches]		60 1/4	60 1/4	60 1/4	60 1/4				
Floor Space [sq. ft.]		14 8/9	14 8/9	14 8/9	14 8/9				
Weight (A/C) [lb]	Weight may vary based on airend selected.	1543	1,565	1,669	1,753				
COMPRESSOR FLUID DATA									
Fluid Capacity (A/C) [gal]				4.2					
Flow Rate [gal/min]			1	7.9					
Typical Oil Consumption [fl. Oz./100 h]		3.49	4.04	4.58	5.38				
Standard Fluid Type				Sigma S-460					
MAINTENANCE PARTS									
Air Inlet Filter		6.4143.0							
Filter Mat (optional)				6.1943.00050 (2x) 7.4519.00040 (3x)					
	ilter Mat for Control Cabinet								
Fluid Filter		6.4778.0							
Fluid Separator Kit		6.3669.0							
Maintenance Kit for Optional 5-year warranty		ANAKASD4SFCS							
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant				ANAKASD4SFCF					



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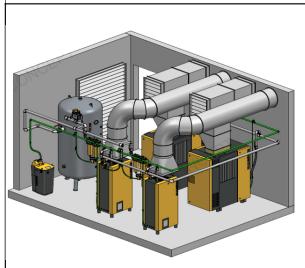
Version: 2.9 Revision Date: 04/17/2023

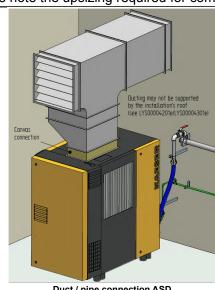
Model	SFC 18		SFC 22		SFC 30S					SFC 30					
Rated Pressure [psig]	110	125	110	125	110	125	145	175	190	110	125	145	175	190	217

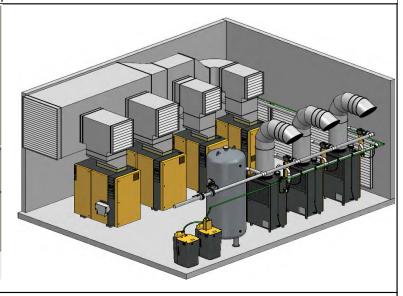
SAMPLE SKETCHES

Sample Installation Planning Examples of room ventilation and ductwork

Please note the upsizing required for compressor exhaust ducts

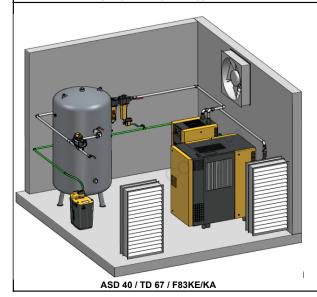






2x ASD 40 / 2x TD 67 / 2x F83 KE/KA

Duct / pipe connection ASD



Example designs only, not for construction purposes.