Series: 1:1 Document No: TI-DA	ation Data Sheet Direct Drive ASD.4 SFC ITA-2019-SFC 18T 22T 3 Version: 2.7 In Date: 04/17/2023	0ST 301	г						
Model	SFC 1	8T	SFC 22	т	SFC 305	ST		SFC 30T	
Rated Pressure [psig]	110	125	110				110 125	145 175 190 217	
	1.10				1.10 1.20 1.1		1.10 1.20 1		
Cooling System Available [Std., Opt.]	A/C		A/C		A/C A		A/C		
Standard Ambient Temp. Range [°F]	40 - 1	15	40 - 11	5			40 - 115		
VENTILATION OF COMPRESSOR ROOM									
Air Inlet Opening [sq. ft. free area] (A/C) Z	7.5		8.6		9	7		10.8	
Solution A (forced ventilation with exhaust fan) as shown in service manual									
Cooling Fan Capacity [CFM] (A/C)	588	3	6,474		7,6	52	1	8,829	
	1 000	-	,		,.	-		.,.==	
Solution B (exhaust air used for space heating) as shown in service manual Internal Cooling Fan Capacity [CFM] (A/C)	Compare	Daver	Comprose	Draver	Comprosses	Davas	Compress	or Davor	
	Compressor 2649	1118	Compressor 2,649		Compressor 2.649	Dryer 1.118	Compress	or Dryer 1.118	
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	2649		2,649	1,118	2,649		3,120	0.16	
Exhaust Air Opening Reference Dimensions (L x W) [in] See drawing for actual dimensions. The act		,	0.24		0			0.10	
duct dimension will vary for every installat actual length, number and type of bends, ac	ion based on 23 x 2	23	23 x 23	3	23 x 23		23 x 23		
Solution A Exhaust Fan Solution B Exhaust Duct Ventilation of Compressor Room Z	140								
AIR COOLED DATA	264	<u>`</u>	2.649		2.6	40	1	3,120	
Internal Cooling Fan Capacity for duct (without dryer) [CFM] Approach Temp, [°F] Reference conditions: 14.5 psia, 30% relative	humidity and		1		1 1	-	40.0		
68°F inlet air	temperature. 10.0		10.8		12.6	10.8	16.2	12.6	
Typical Heat Rejected (Compressor without dryer) [BTU / HR]	81,00		95,000		106			128,000	
II. ELECTRICAL DATA Electrical data may vary in accordan	nce with motor manufa	turer's	specifications.	Motors	s are EISA com	pliant.			
DRIVE MOTOR									
Motor HP	25	25 30 40		0	40				
Insulation Class	F	-			F		F		
Standard Voltage	460V/3ph	460V/3ph/60Hz		460V/3ph/60Hz		460V/3ph/60Hz		460V/3ph/60Hz	
Туре	SynRM(M(IES2) SynRM(IES2) SynRM(IES2)		SynRM(IES2)					
FAN MOTOR (A/C)									
Insulation Class	F		F		F			F	
Fan Motor [HP], oilcooler aircooler	0.7		0.75	.75 0.75		0.75			
Full Load Amps [FLA] @ 460V/3ph/60Hz Full Load Amps [FLA] @ 575V/3ph/60Hz	1.5		1.5			-	1.5 CF		
	CF		CF			F			

KAESER COMPRESSORS Series: 1:1 Direct Drive ASD.4 SFC Document No: TI-DATA-2019-SFC 18T 22T 30ST 30T Version: 2.7									
	Revision Date: 04/								
Model		SFC 18T	SFC 22T	SFC 30ST	SFC 30T				
Rated Pressure [psig]	110 125	110 125	110 125 145 175	190 110 125 145 175 190 217				
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.		22 A A A A A A A A A A A A A A A A A A	three-phase star (wy 4-wire; grounded neutral	≥:	three-phase star (wye); 3-wire; grounded neutral				
				Ľ					
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]		46	53	57	67				
Package Full Load Amps @ 575V/3ph/60Hz [FLA]		CF	44	CF	52				
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz									
Recommended Disconnect Fuse Size [Amps] @ 4600/sph/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,	60	70	80	100				
	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	4 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]		72 7/8	72 7/8	72 7/8	72 7/8				
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.]	Weight may vary based on airend selected.	18	18	18	18				
Neight (A/C) [lb]	. 1753 1,775 1,878 1,962								
COMPRESSOR FLUID DATA				1.0					
Fluid Capacity (A/C) [gal]				4.2					
Flow Rate [gal/min]			7.9						
Typical Oil Consumption [fl. Oz./100 h]				3.49 4.04 4.58 5.38					
Standard Fluid Type		Sigma S-460							
AINTENANCE PARTS									
Air Inlet Filter		6.4143.0							
Filter Mat (optional)			6.1943.00050 (2x)						
Filter Mat for Control Cabinet	7.4519.00040 (3x)								
Fluid Filter		6.4778.0							
Fluid Separator Kit		6.3669.0							
Alintenance Kit for Optional 5-year warranty			ANAKASD4SFCS						
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant		l		ANAKASD4SFCF					
DRYER DATA - FOR T MODELS									
Dryer Model		ABT 60	ABT 60	ABT 60	ABT 60				
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]		232	232	232	232				
Nominal Pressure Drop at Rated Flow [psid]		2.9	2.9	2.9	2.9				
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	38	38	38	38				
REFRIGERATION SYSTEM DATA - FOR T MODELS									
Compressor Type	TRK5512V-XG								
BTU/Refrigeration ASHRAE			9,980						
Dutlet Air Temperature (Nominal at Rated Conditions) [°F]	71								
Refrigerant Type		R-513A							
GWP (Global Warming Potential)		631							
CO2 equivalent [t]		0.47							
Refrigerant Charge [lb]		1.65							
Air Flow Across Condenser [CFM]		1,118							
		I		1,110					

