KAESER COMPRESSORS Installation Data Sheet Series: 1:1 Belt Drive AS.3 SFC Document No.: TI-DATA-2014-AS SFC 18ST 22ST Version: 2.7 Revision Date: 04/17/2023								
Model	-		SFC 18ST			SFC 22ST		
Rated Pressure [psi	g]	110 125	145 160	190 217	110 125	145 160	190 217	
I. COOLING DATA Cooling System Available [Std., Opt.]		1	A/C		1	A/C		
Standard Ambient Temp. Range [°F]			40 - 115			40 - 115		
VENTILATION OF COMPRESSOR ROOM					1			
Air Inlet Opening [sq. ft. free area] (A/C) Z		7.5		8.6				
Solution A (forced ventilation with exhaust fan) as shown in service manual Cooling Fan Capacity [CFM] (A/C)			5,886			7,063		
	e menuel	1			1			
Solution B (exhaust air used for space heating) as shown in servic Internal Cooling Fan Capacity [CFM] (A/C)	e manual	Compres	sor	Dryer	Compres	sor	Dryer	
		2,354	301	883	2,943		883	
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)		2,001	0.24	000	2,010	0.16	000	
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.		26 x 26			26 x 26		
Model shown for reference only Actual Duct size may vary with installation	A B Z							
Solution A Exhaust Fan Solution B Exhaust Duct								
Ventilation of Compressor Room Z								
AIR COOLED DATA Internal Cooling Fan Capacity [CFM] Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	12.6	2,354 10.8	9	14.4	2,943 12.6	10.8	
Typical Heat Rejected [BTU / HR]			81,000			100,000		
Fan Motor [HP], oilcooler/aircooler II. ELECTRICAL DATA	Electrical data may your in accordance with mat	10 x m 0 m 1 f 0 0 f	0.75	finationa Ma	toro oro EIC	0.75	4	
	Electrical data may vary in accordance with mot		urer's speci	ncations. wo	nors are EIS.	A complian		
DRIVE MOTOR								
Motor HP		25		30 F				
Insulation Class Standard Voltage		F 460V/3ph/60Hz						
Full Load Amps [FLA] @ 460V/3ph/60Hz			30			34		
AN MOTOR (A/C)								
lation Class		F			F			
an Motor [HP], oilcooler aircooler		0.75			0.75			
Full Load Amps [FLA] @ 460V/3ph/60Hz			1.47			1.47		
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			
Control Cabinet Class (NEMA)			12		12			
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz						50		
Package Full Load Amps @ 460V/3ph/60Hz [FLA] 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). Based on 2020 NEC 240.6, 430.52, and Tables 430.52, 300.248, and 430.250	48 70		57 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 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 AWG per phase and ground			4 AWG per phase and ground			

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Rated Pressure [ps	110 125 145 160 190 21	110 125 145 160 190 217						
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]		72					
A/C Air Discharge [inches NPT or Flange]		1 1/4 NPT	1 1/4 NPT					
Power Input Conduit Opening(s) [inches]		2 1/4	2 1/4					
Condensate Drain Connection [NPT]		1/4	1/4					
Width [inches]		31 1/2	31 1/2					
Depth [inches]		57 1/2	57 1/2					
Height [inches]		60 1/4	60 1/4					
Floor Space [sq. ft.]		12 4/7	12 4/7					
Weight (A/C) [lb]	Weight may vary based on airend selected.	1,378	1,422					
COMPRESSOR FLUID DATA	×	· · · · · · · · · · · · · · · · · · ·						
Fluid Capacity (A/C) [gal]		2.9	2.9					
Flow Rate [gal/min]		6.3	6.3					
Typical Oil Consumption [fl. Oz./100 h]		3.2	3.7					
Standard Fluid Type		Sigma S-460	Sigma S-460					
MAINTENANCE PARTS		· · · · · · · · · · · · · · · · · · ·						
Air Inlet Filter		6.	4163.0					
Filter Mat (optional)		5.6143.0						
Filter Mat for Control Cabinet		6.3572.0 (x2)						
Fluid Filter		6.3463.0						
Fluid Separator Kit		6.3789.1						
Maintenance Kit for Optional 5-year warranty		ANAKAS3SFCS2						
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	ANAKAS3SFCF2							
DRYER DATA - FOR T MODELS		L						
Dryer Model		ABT 40	ABT 40					
aximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]		232	232					
Nominal Pressure Drop at Rated Flow [psid]		2.8	2.8					
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	38	38					
REFRIGERATION SYSTEM DATA - FOR T MODELS								
Compressor Type		RK5480-U	RK5480-U					
BTU/Refrigeration ASHRAE		7865	7865					
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	73	73					
Refrigerant Type		R-513A	R-513A					
GWP (Global Warming Potential)	P (Global Warming Potential)		631					
CO2 equivalent [t]								
efrigerant Charge [lb]		0.9	0.9					
Air Flow Across Condenser [CFM]		883	883					

