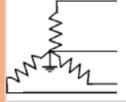
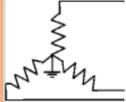


**Installation Data Sheet**  
 Series: 1:1 Belt Drive AS.3 SFC  
 Document No.: TI-DATA-2014-AS SFC 18ST 22ST  
 Version: 2.6  
 Revision Date: 10/24/2022

Model	SFC 18ST						SFC 22ST					
	110	125	145	160	190	217	110	125	145	160	190	217
<b>Rated Pressure [psig]</b>												
<b>I. COOLING DATA</b>												
Cooling System Available [Std., Opt.]	A/C						A/C					
Standard Ambient Temp. Range [°F]	40 - 115						40 - 115					
<b>VENTILATION OF COMPRESSOR ROOM</b>												
Air Inlet Opening [sq. ft. free area] (A/C) Z	7.5						8.6					
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>												
Cooling Fan Capacity [CFM] (A/C)	5,886						7,063					
<b>Solution B (exhaust air used for space heating) as shown in service manual</b>												
Internal Cooling Fan Capacity [CFM] (A/C)	Compressor			Dryer			Compressor			Dryer		
	2,354			883			2,943			883		
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	0.24						0.16					
Exhaust Air Opening Reference Dimensions (L x W) [in]	26 x 26						26 x 26					
<p>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.</p>												
<p><b>Model shown for reference only</b>  <b>Actual Duct size may vary with installation</b></p>												
Solution A Exhaust Fan												
Solution B Exhaust Duct												
Ventilation of Compressor Room Z												
<b>AIR COOLED DATA</b>												
Internal Cooling Fan Capacity [CFM]	2,354						2,943					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						12.6, 10.8, 9, 14.4, 12.6, 10.8					
Typical Heat Rejected [BTU / HR]	81,000						100,000					
Fan Motor [HP], oilcooler/aircooler	0.75						0.75					
<b>II. ELECTRICAL DATA</b>												
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>												
<b>DRIVE MOTOR</b>												
Motor HP	25						30					
Insulation Class	F						F					
Standard Voltage	460V/3ph/60Hz						460V/3ph/60Hz					
Full Load Amps [FLA] @ 460V/3ph/60Hz	30						34					
<b>FAN MOTOR (A/C)</b>												
Insulation Class	F						F					
Fan Motor [HP], oilcooler   aircooler	0.75						0.75					
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.47						1.47					



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<b>TOTAL PACKAGE DATA (A/C)</b>													
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.													
							<b>three-phase star (wye); 4-wire; grounded neutral</b>				<b>three-phase star (wye); 3-wire; grounded neutral</b>		
Continuous Duty [Hours per day]	24						24						
Control Cabinet Class (NEMA)	12						12						
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*						50						
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	48						57						
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, 430.248, and 430.250						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						
<b>INSTALLATION and MAINTENANCE DATA</b>													
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]						70						
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						
<b>COMPRESSOR FLUID DATA</b>													
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						



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Model	SFC 18ST						SFC 22ST					
	110	125	145	160	190	217	110	125	145	160	190	217
<b>Rated Pressure [psig]</b>												
<b>MAINTENANCE PARTS</b>												
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
<b>DRYER DATA - FOR T MODELS</b>												
Dryer Model							ABT 40					ABT 40
Maximum 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							38					38
							Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.					
<b>REFRIGERATION SYSTEM DATA - FOR T MODELS</b>												
Compressor Type							RK5480-U					RK5480-U
BTU/Refrigeration ASHRAE							7865					7865
Outlet Air Temperature (Nominal at Rated Conditions) [°F]							73					73
							Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.					
Refrigerant Type							R-513A					R-513A
GWP (Global Warming Potential)							631					631
CO2 equivalent [t]							0.26					0.26
Refrigerant Charge [lb]							0.9					0.9
Air Flow Across Condenser [CFM]							883					883