

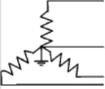


Installation Data Sheet
 Series: 1:1 Belt Drive AS.3 SFC
 Document No.: TI-DATA-2014-SFC 18S 22S
 Version: 2.5
 Revision Date: 04/17/2023

Model	SFC 18S						SFC 22S					
	110	125	145	160	190	217	110	125	145	160	190	217
Rated Pressure [psig]												
I. COOLING DATA												
Cooling System Available [Std., Opt.]	A/C						A/C					
Standard Ambient Temp. Range [°F]	40 - 115						40 - 115					
VENTILATION OF COMPRESSOR ROOM												
Air Inlet Opening [sq. ft. free area] (A/C) Z	6.5						7.5					
Solution A (forced ventilation with exhaust fan) as shown in service manual												
Cooling Fan Capacity [CFM] (A/C)	5,886						7,063					
Solution B (exhaust air used for space heating) as shown in service manual												
Internal Cooling Fan Capacity [CFM] (A/C)	2,354						2,943					
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 align="center"> Model shown for reference only Actual Duct size may vary with installation </p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p align="center">Solution A Exhaust Fan</p> <hr style="border: 1px solid green;"/> <p align="center">Solution B Exhaust Duct</p> <hr style="border: 1px solid red;"/> <p align="center">Ventilation of Compressor Room Z</p> <hr style="border: 1px solid blue;"/> </div> <div style="flex: 2; text-align: center;"> <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> </div> </div>												
AIR COOLED DATA												
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]	78,500						94,000					
Fan Motor [HP], oilcooler/aircooler	0.75						0.75					
II. ELECTRICAL DATA <i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>												
DRIVE MOTOR												
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					
FAN MOTOR (A/C)												
Insulation Class	F						F					
Fan Motor [HP], oilcooler aircooler	0.75						0.75					
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.47						1.47					



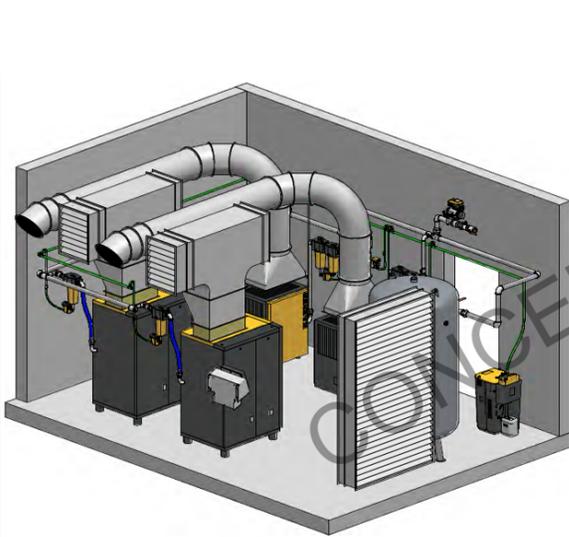
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TOTAL PACKAGE DATA (A/C)																			
Do NOT operate package on any unsymmetrical power supply. Also do NOT operate package on power supplies like, for example, a three-phase (open) delta or three-phase star with non-grounded neutral. The machine 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					50												
Package Full Load Amps @ 460V/3ph/60Hz [FLA]		45					54												
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz		<small>*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</small>					70												
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz		<small>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.</small>					4 AWG per phase and ground					4 AWG per phase and ground							
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]					70					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]		N/A					N/A												
Width [inches]		31 1/2					31 1/2												
Depth [inches]		43 7/8					43 7/8												
Height [inches]		60 1/4					60 1/4												
Floor Space [sq. ft.]		9 3/5					9 3/5												
Weight (A/C) [lb]		Weight may vary based on airend selected.					1,169					1,213							
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]		3.1					3.7												
Standard Fluid Type		Sigma S-460					Sigma S-460												
MAINTENANCE PARTS																			
Air Inlet Filter		6.4163.0					6.4163.0												
Filter Mat (optional)		5.6143.0					5.6143.0												
Filter Mat for Control Cabinet		6.3572.0 (x2)					6.3572.0 (x2)												
Fluid Filter		6.3463.0					6.3463.0												
Fluid Separator Kit		6.3789.1					6.3789.1												
Maintenance Kit for Optional 5-year warranty		ANAKAS3SFCS2					ANAKAS3SFCS2												
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant		ANAKAS3SFCSF2					ANAKAS3SFCSF2												

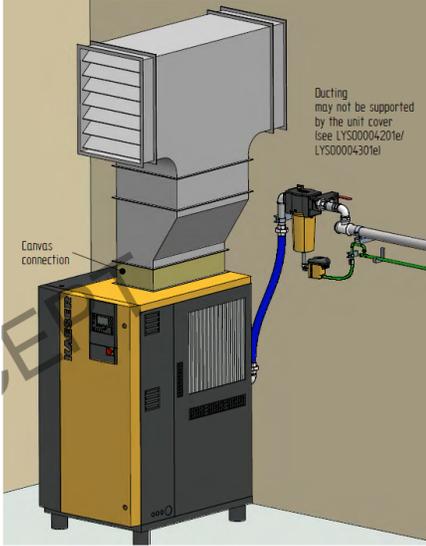
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SAMPLE SKETCHES

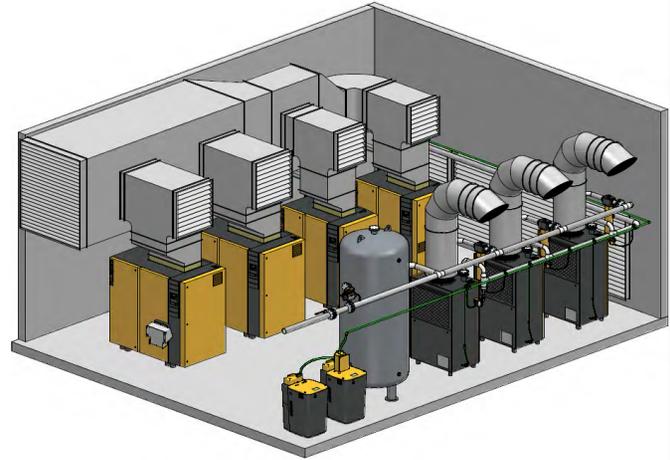
Sample Installation Planning
Examples of room ventilation and ductwork
Please note the upsizing required for compressor exhaust ducts



2x AS 30 / 2x TC 44 / 2x F46KE/KA Sample Layout



Duct / Pipe connection AS



AS 30 / TC 44 / F46KE/KA Sample Layout

Example designs only, not for construction purposes.