



**Installation Data Sheet**  
 Series: 1:1 Belt Drive SK.2 SFC  
 Document No.: TI-DATA-2010-SFC 11T 15T  
 Version: 2.3  
 Revision Date: 04/17/2023

Model	SFC 11T						SFC 15T								
	Rated Pressure [psig]	110	125	145	160	175	217	110	125	145	160	175	217		
<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	4.8						5.4								
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>															
Cooling Fan Capacity [CFM] (A/C)	3,355						3,943								
<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					
	1,530			506			1,825			506					
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	0.12						0.12								
Exhaust Air Opening Reference Dimensions (L x W) [in]	31 x 31						31 x 31								
<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>															
<table border="0"> <tr> <td style="border: 1px solid green; padding: 2px;">Solution A Exhaust Fan</td> </tr> <tr> <td style="border: 1px solid red; padding: 2px;">Solution B Exhaust Duct</td> </tr> <tr> <td style="border: 1px solid blue; padding: 2px;">Ventilation of Compressor Room Z</td> </tr> </table>													Solution A Exhaust Fan	Solution B Exhaust Duct	Ventilation of Compressor Room Z
Solution A Exhaust Fan															
Solution B Exhaust Duct															
Ventilation of Compressor Room Z															
<b>AIR COOLED DATA</b>															
Internal Cooling Fan Capacity [CFM]	1,530						1,825								
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						10.8								
Typical Heat Rejected [BTU / HR]	50,000						66,500								
<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	15						20								
Insulation Class	F						F								
Standard Voltage	460V/3ph/60Hz						460V/3ph/60Hz								
Full Load Amps [FLA] @ 460V/3ph/60Hz	18.2						24.5								



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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	50						50					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	30						36					
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						40					
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.						8 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]						68					
A/C Air Discharge [inches NPT or Flange]	1 NPT						1 NPT					
Power Input Conduit Opening(s) [inches]	1 5/8						1 5/8					
Condensate Drain Connection [NPT]	1/4						1/4					
Width [inches]	29 1/2						29 1/2					
Depth [inches]	48 3/4						48 3/4					
Height [inches]	49 1/2						49 1/2					
Floor Space [sq. ft.]	10						10					
Weight (A/C) [lb]	Weight may vary based on airend selected.						891					
<b>COMPRESSOR FLUID DATA</b>												
Fluid Capacity (A/C) [gal]	1.8						1.8					
Flow Rate [gal/min]	3.2						3.2					
Typical Oil Consumption [fl. Oz./100 h]	1.9						2.4					
Standard Fluid Type	Sigma S-460						Sigma S-460					



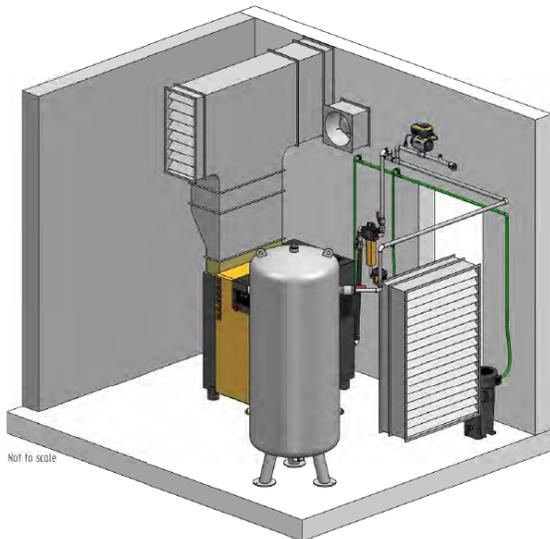
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<b>MAINTENANCE PARTS</b>														
Air Inlet Filter														6.4432.0
Filter Mat (optional)														5.5850.0
Filter Mat for Control Cabinet														7.4519.0 (4x)
Fluid Filter														6.3462.1
Fluid Separator Kit														6.3792.2
Maintenance Kit for Optional 5-year warranty														AN5YRKSFC9
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant														AN5YRKSFC9F
<b>DRYER DATA - FOR T MODELS</b>														
Dryer Model														ABT 25
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]														232
Nominal Pressure Drop at Rated Flow [psid]														3
Rated Dewpoint [°F] at Standard Conditions														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														GP12YG
BTU/Refrigeration ASHRAE														4350
Outlet Air Temperature (Nominal at Rated Conditions) [°F]														70
														Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.
Refrigerant Type														R-513A
GWP (Global Warming Potential)														631
CO2 equivalent [t]														0.33
Refrigerant Charge [lb]														1.15
Air Flow Across Condenser [CFM]														506

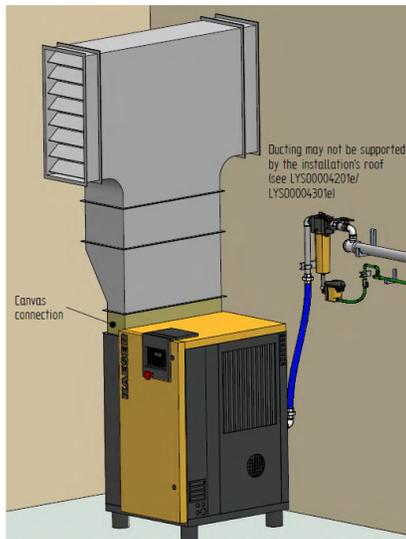
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**SAMPLE SKETCHES**

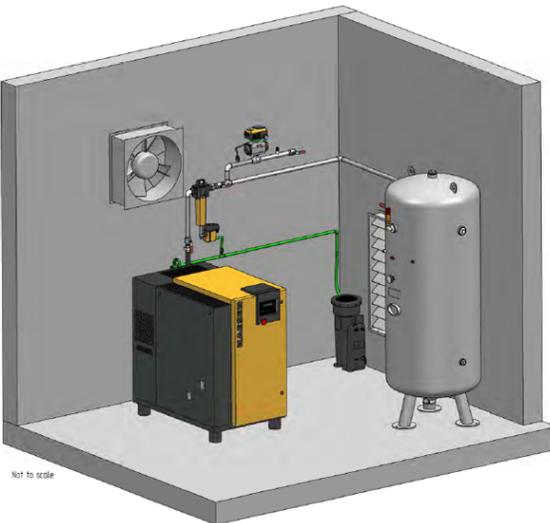
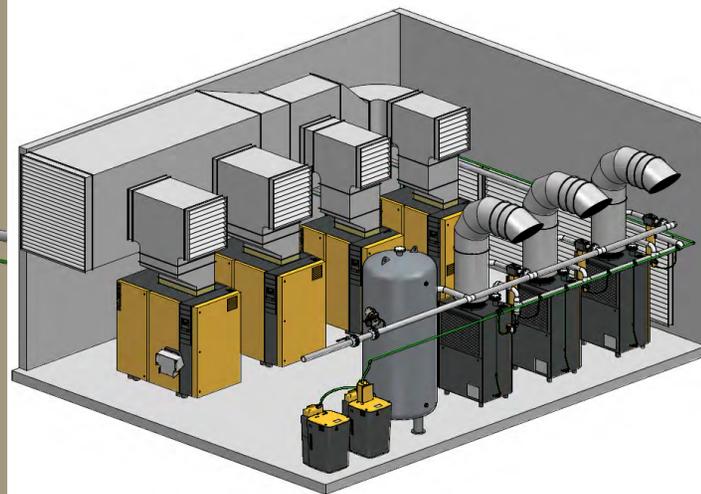
**Sample Installation Planning**  
**Examples of room ventilation and ductwork**  
 Please note the upsizing required for compressor exhaust ducts



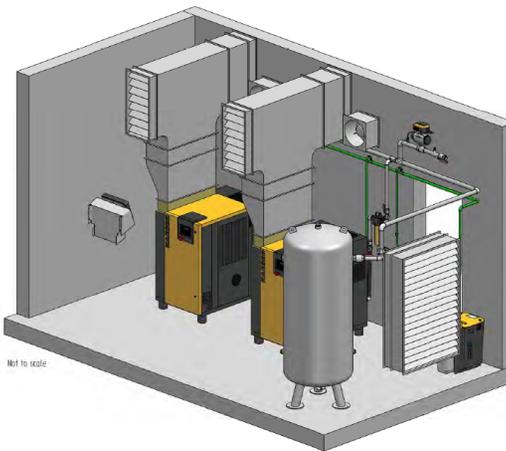
SK 20 T / F26KE Sample Layout



Duct / Pipe connection SK



SK 20 T / F26KE Sample Layout



(2x) SK 20 T / (2x) F26KE

**Example designs only, not for construction purposes.**