



**Installation Data Sheet**  
**Series: 1:1 Belt Drive SM.3 SFC**  
**Document No.: TI-DATA-2018-SFC 8T**  
**Version: 1.8**  
**Revision Date: 04/17/2023**

Model	SFC 8T					
Rated Pressure [psig]	110	125	145	160	175	217
<b>I. COOLING DATA</b>						
Cooling System Available [Std., Opt.]	A/C					
Standard Ambient Temp. Range [°F]	40 - 115					
<b>VENTILATION OF COMPRESSOR ROOM</b>						
Air Inlet Opening [sq. ft. free area] (A/C) Z	3.2					
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>						
Cooling Fan Capacity [CFM] (A/C)	2,354					
<b>Solution B (exhaust air used for space heating) as shown in service manual</b>						
Internal Cooling Fan Capacity [CFM] (A/C)	Compressor			Dryer		
	1,295			506		
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	0.12					
Exhaust Air Opening Reference Dimensions (L x W) [in]	26 x 26 (dryer is not ducted)					
<b>Model shown for reference only</b> <b>Actual Duct size may vary with installation</b>		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.				
<div style="border: 1px solid green; padding: 2px; width: fit-content; margin-bottom: 2px;">Solution A Exhaust Fan</div> <div style="border: 1px solid red; padding: 2px; width: fit-content; margin-bottom: 2px;">Solution B Exhaust Duct</div> <div style="border: 1px solid blue; padding: 2px; width: fit-content;">Ventilation of Compressor Room Z</div>						
<b>AIR COOLED DATA</b>						
Internal Cooling Fan Capacity [CFM]				1,295		
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.			12.6	10.8	9
Typical Heat Rejected [BTU / HR]	36,000					
<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	10					
Insulation Class	F					
Standard Voltage	460V/3ph/60Hz					
Full Load Amps [FLA] @ 460V/3ph/60Hz	12					
<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					
Control Cabinet Class (NEMA)	12					
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	22					
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					
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				



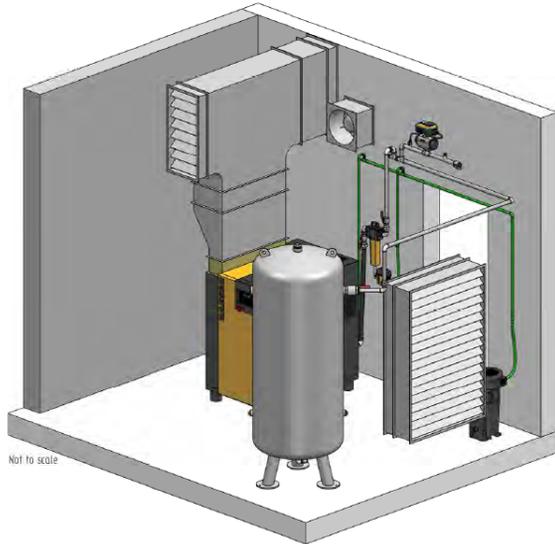
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<b>INSTALLATION and MAINTENANCE DATA</b>							
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]						68
A/C Air Discharge [inches NPT or Flange]						3/4 NPT	
Power Input Conduit Opening(s) [inches]						1 5/8	
Condensate Drain Connection [NPT]						1/4	
Width [inches]						24 3/4	
Depth [inches]						43	
Height [inches]						43 1/4	
Floor Space [sq. ft.]						7 3/7	
Weight [lb]	Weight may vary based on airend selected.						717
<b>COMPRESSOR FLUID DATA</b>							
Fluid Capacity (A/C) [gal]						1.1	
Flow Rate [gal/min]						2.4	
Typical Oil Consumption [fl. Oz./100 h]						1.24	
Standard Fluid Type						Sigma S-460	
<b>MAINTENANCE PARTS</b>							
Air Inlet Filter						6.5212.0	
Filter Mat (optional)						5.3353.0	
Filter Mat for Control Cabinet						6.3572.0 (4x)	
Fluid Filter						6.3462.1	
Fluid Separator Kit						6.3795.1	
Maintenance Kit for Optional 5-year warranty						ANAKSM3SFCS	
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant						ANAKSM3SFCF	
<b>DRYER DATA - FOR T MODELS</b>							
Dryer Model						ABT 15	
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]						232	
Nominal Pressure Drop at Rated Flow [psid]						2.8	
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						38
<b>REFRIGERATION SYSTEM DATA - FOR T MODELS</b>							
Compressor Type						AE4430Y-GS	
BTU/Refrigeration ASHRAE						2832	
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						74
Refrigerant Type						R-513A	
GWP (Global Warming Potential)						631	
CO2 equivalent [t]						0.25	
Refrigerant Charge [lb]						0.86	
Air Flow Across Condenser [CFM]						506	

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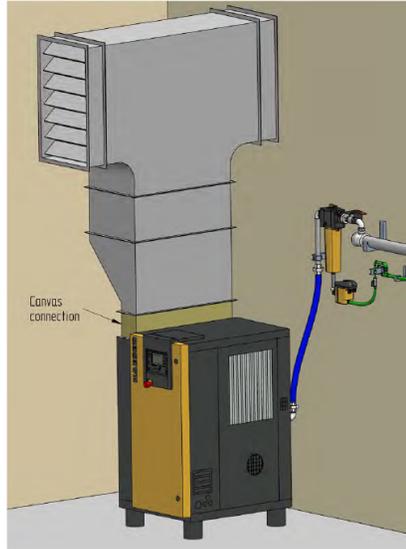
**SAMPLE SKETCHES**

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



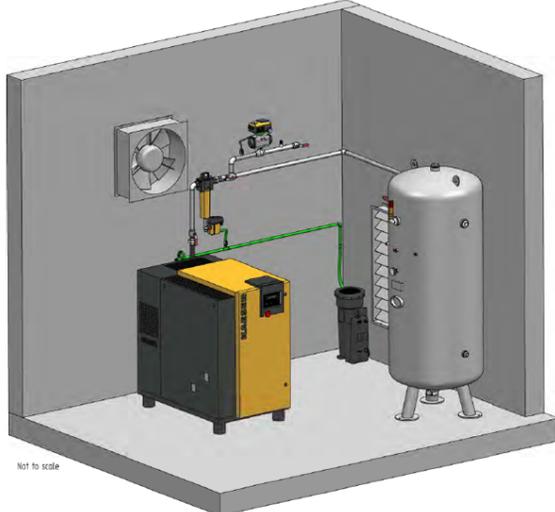
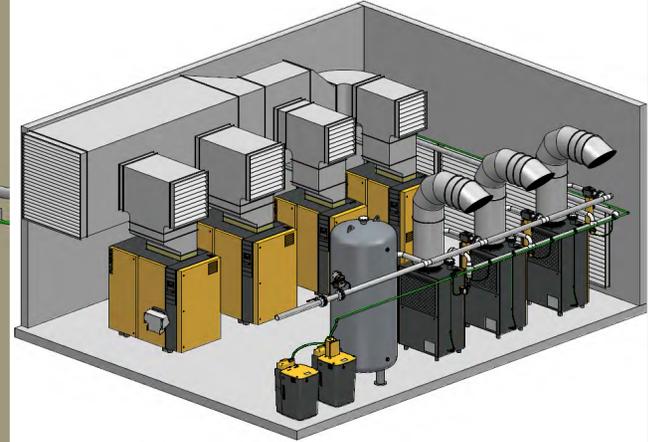
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**SK 20 T / F26KE Sample Layout**



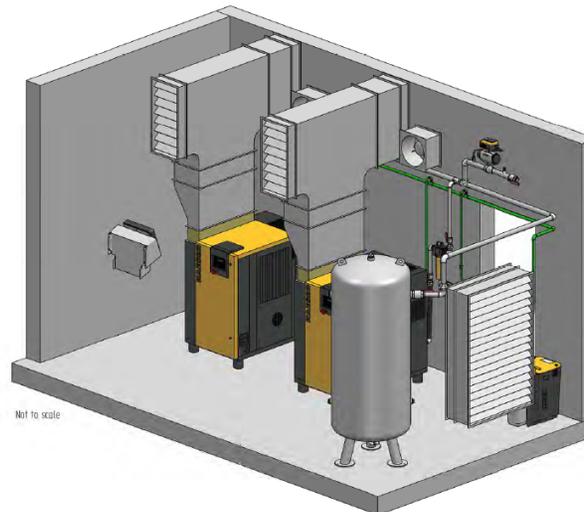
Canvas connection

**Duct / Pipe connection SM**



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**SK 20 T / F26KESample Layout**



Not to scale

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

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