



Installation Data Sheet
 Series: 1:1 Belt Drive SM.3 SFC
 Document No.: TI-DATA-2018-SFC 8
 Version: 1.6
 Revision Date: 04/17/2023

	SFC 8					
Model	110	125	145	160	175	217
I. COOLING DATA						
Cooling System Available [Std., Opt.]	A/C					
Standard Ambient Temp. Range [°F]	40 - 115					
VENTILATION OF COMPRESSOR ROOM						
Air Inlet Opening [sq. ft. free area] (A/C) Z	2.7					
Solution A (forced ventilation with exhaust fan) as shown in service manual						
Cooling Fan Capacity [CFM] (A/C)	1,942					
Solution B (exhaust air used for space heating) as shown in service manual						
Internal Cooling Fan Capacity [CFM] (A/C)	1,295					
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)					
Model shown for reference only Actual Duct size may vary with installation	<p style="font-size: small; text-align: center;">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>					
Solution A Exhaust Fan						
Solution B Exhaust Duct						
Ventilation of Compressor Room Z						
AIR COOLED DATA						
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]	34,500					
II. ELECTRICAL DATA						
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>						
DRIVE MOTOR						
Motor HP	10					
Insulation Class	F					
Standard Voltage	460V/3ph/60Hz					
Full Load Amps [FLA] @ 460V/3ph/60Hz	12					



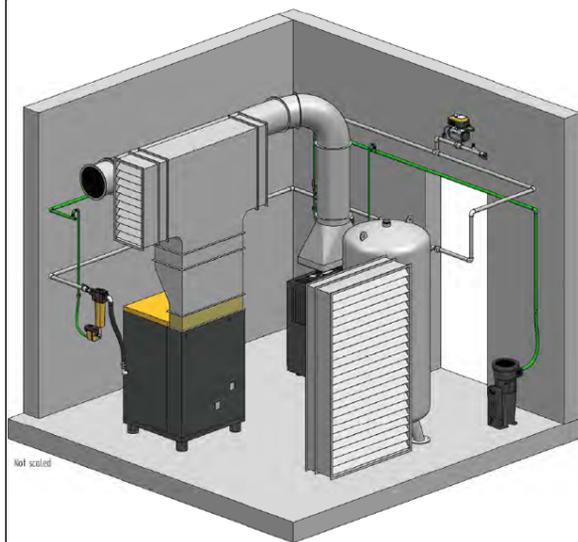
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Rated Pressure [psig]		110	125	145	160	175	217		
TOTAL PACKAGE DATA (A/C)									
Do NOT operate package on any unsymmetrical power supply. Also do NOT operate package on power supplies like, for example, a three-phase (open) delta or three-phase 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							
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]		50							
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz		20							
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz		30							
		*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							
		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							
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]				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]		N/A							
Width [inches]		24 3/4							
Depth [inches]		30							
Height [inches]		43 1/4							
Floor Space [sq. ft.]		7 2/5							
Weight [lb]		Weight may vary based on airend selected.				551			
COMPRESSOR FLUID DATA									
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							
MAINTENANCE PARTS									
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							

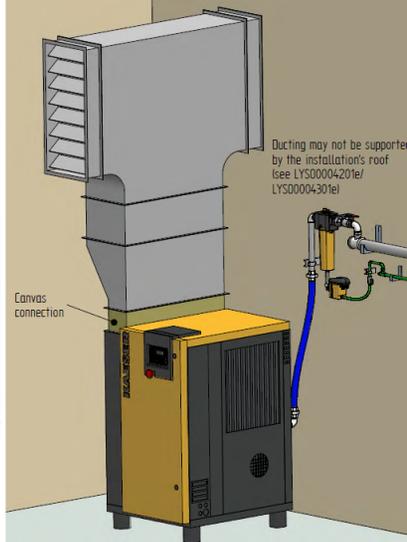
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SAMPLE SKETCHES

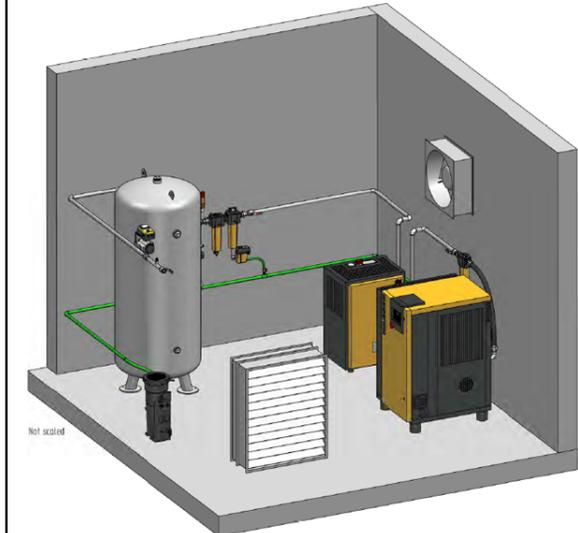
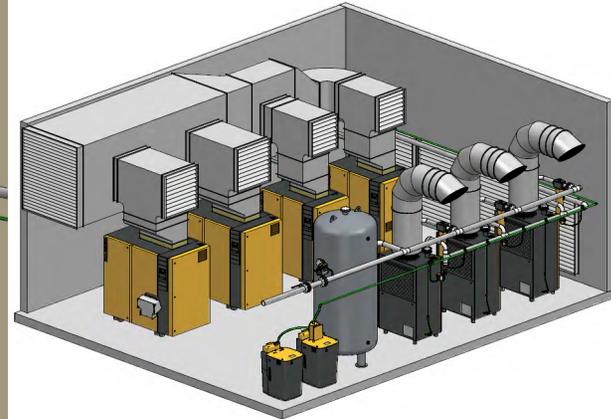
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



SK 20 / TB 26 / F26KE / F26KA Sample Layout



Duct / Pipe connection SM



SK 20 / TB 26 / F26KE / F26KA Sample Layout

Example designs only, not for construction purposes.