



Installation Data Sheet
Series: 1:1 Belt Drive SM.3
Document No.: TI-DATA-2018-SM 7.5 10 15
Version: 1.6
Revision Date: 04/17/2023

Model	SM 7.5			SM 10			SM 15					
	Rated Pressure [psig]	125	160	217	125	160	217	125	160	217		
I. COOLING DATA												
Cooling System Available [Std., Opt.]	A/C			A/C			A/C					
Standard Ambient Temp. Range [°F]	40 - 115			40 - 115			40 - 115					
VENTILATION OF COMPRESSOR ROOM												
Air Inlet Opening [sq. ft. free area] (A/C) Z	2.2			2.7			3.2					
Solution A (forced ventilation with exhaust fan) as shown in service manual												
Cooling Fan Capacity [CFM] (A/C)	1,471			1,766			2,119					
Solution B (exhaust air used for space heating) as shown in service manual												
Internal Cooling Fan Capacity [CFM] (A/C)	1,295			1,295			1,295					
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	0.12			0.12			0.08					
Exhaust Air Opening Reference Dimensions (L x W) [in]	26 x 26			26 x 26			26 x 26					
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>Model shown for reference only Actual Duct size may vary with installation</p>												
Solution A Exhaust Fan												
Solution B Exhaust Duct												
Ventilation of Compressor Room Z												
AIR COOLED DATA												
Internal Cooling Fan Capacity [CFM]	1,295			1,295			1,295					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.			9	7.2	7.2	12.6	10.8	9	14.4	12.6	10.8
Typical Heat Rejected [BTU / HR]	24,500			32,500			40,000					
II. ELECTRICAL DATA												
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>												
DRIVE MOTOR												
Motor HP	7.5			10			15					
Insulation Class	F			F			F					
Standard Voltage	208-230/460V/3ph/60Hz			208-230/460V/3ph/60Hz			208-230/460V/3ph/60Hz					
Full Load Amps [FLA] @ 208V/3ph/60Hz	19.2			26			37.4					
Full Load Amps [FLA] @ 230V/3ph/60Hz	18.1			25			35.5					
Full Load Amps [FLA] @ 460V/3ph/60Hz	9.2			12.4			17.8					
Full Load Amps [FLA] @ 575V/3ph/60Hz	7			10			14					



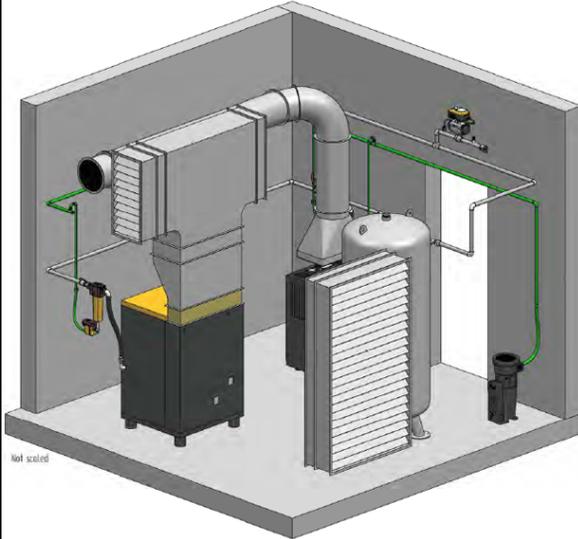
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TOTAL PACKAGE DATA (A/C)												
Do NOT operate package on any unsymmetrical power supply. Also do NOT operate package on power supplies like, for example, a three-phase (open) delta or three-phase star with non-grounded neutral. The machine requires 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			24					
Control Cabinet Class (NEMA)	12			12			12					
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*			50			50					
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*			50			50					
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	23			31			38					
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	22			30			36					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	11			15			18					
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	9			12			14					
Recommended Disconnect Fuse Size [Amps] @ 208V/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			35			45			50		
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz				30			45			50		
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz				15			20			25		
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz				15			15			20		
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/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.			10 AWG per phase and ground			8 AWG per phase and ground			6 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz				10 AWG per phase and ground			8 AWG per phase and ground			6 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz				14 AWG per phase and ground			12 AWG per phase and ground			10 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz				14 AWG per phase and ground			14 AWG per phase and ground			12 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]			65			67			68		
A/C Air Discharge [inches NPT or Flange]	3/4 NPT			3/4 NPT			3/4 NPT					
Power Input Conduit Opening(s) [inches]	1 5/8			1 5/8			1 5/8					
Condensate Drain Connection [NPT]	N/A			N/A			N/A					
Width [inches]	24 3/4			24 3/4			24 3/4					
Depth [inches]	30			30			30					
Height [inches]	43 1/4			43 1/4			43 1/4					
Floor Space [sq. ft.]	5 1/6			5 1/6			5 1/6					
Weight [lb]	Weight may vary based on airend selected.			485			529			529		
COMPRESSOR FLUID DATA												
Fluid Capacity (A/C) [gal]	1.1			1.1			1.1					
Flow Rate [gal/min]	2.4			2.4			2.4					
Typical Oil Consumption [fl. Oz./100 h]	0.81			1.1			1.4					
Standard Fluid Type	Sigma S-460			Sigma S-460			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 (x4)								
Fluid Filter				6.3462.1								
Fluid Separator Kit				6.3795.1								
Maintenance Kit for Optional 5-year warranty				ANAKSM3S								
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant				ANAKSM3F								

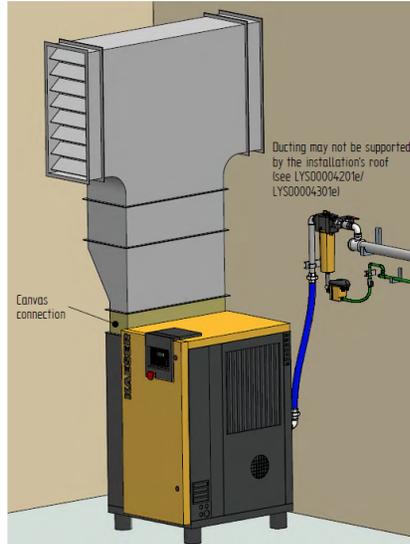
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SAMPLE SKETCHES

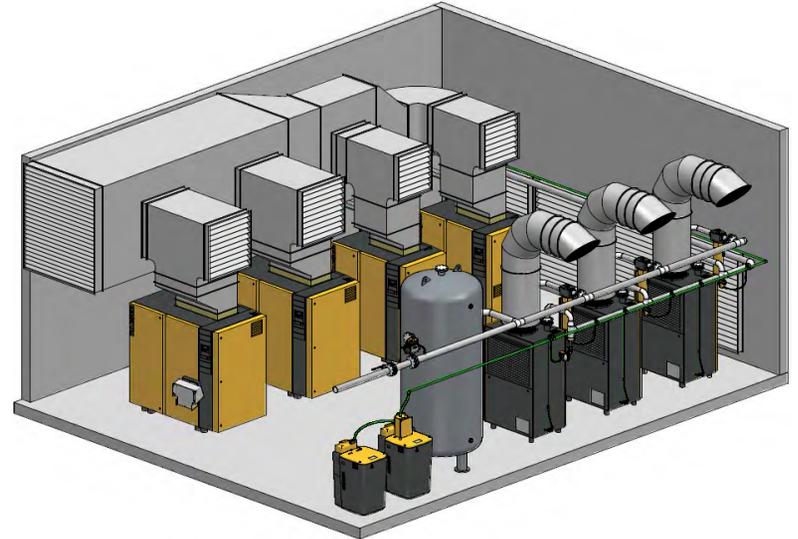
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



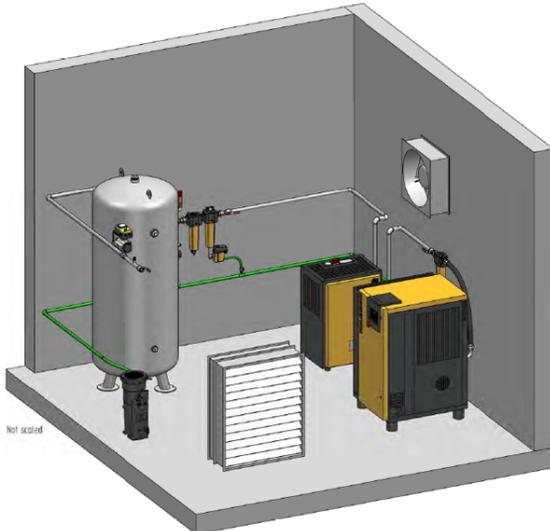
SK 20 / TB 26 / F26KE / F26KA Sample Layout



Duct / Pipe connection SM



Example designs only, not for construction purposes.



SK 20 / TB 26 / F26KE / F26KA Sample Layout