





Installation Data Sheet
 Series: 1:1 Belt Drive SX.2
 Document No.: TI-DATA-2008-SX 3T 4T 5T 7.5T
 Version: 2.8
 Revision Date: 04/17/2023

Model	SX 3T		SX 4T			SX 5T			SX 7.5T		
	125	160	125	160	217	125	160	217	125	160	217
I. COOLING DATA											
Cooling System Available [Std., Opt.]	A/C		A/C			A/C			A/C		
Standard Ambient Temp. Range [°F]	40 - 115		40 - 115			40 - 115			40 - 115		
VENTILATION OF COMPRESSOR ROOM											
Air Inlet Opening [sq. ft. free area] (A/C) Z	2.2		2.2			2.2			2.2		
Solution A (forced ventilation with exhaust fan) as shown in service manual											
Cooling Fan Capacity [CFM] (A/C)	883		1,001			1,236			1,530		
Solution B (exhaust air used for space heating) as shown in service manual											
Internal Cooling Fan Capacity [CFM] (A/C)	Compressor 647		Compressor 647			Compressor 648 647			Compressor 824 824		
Internal Cooling Fan Capacity [CFM] Dryer	Dryer 306		Dryer 306			Dryer 441 306			Dryer 441 306		
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	0.12		0.12			0.12			0.12		
Exhaust Air Opening Reference Dimensions (L x W) [in]	20 x 20		20 x 20			20 x 20			20 x 20		
<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>Solution A Exhaust Fan</p> <hr style="border: 1px solid green;"/> <p>Solution B Exhaust Duct</p> <hr style="border: 1px solid red;"/> <p>Ventilation of Compressor Room Z</p> <hr style="border: 1px solid blue;"/> </div> <div style="flex: 2; text-align: center;"> </div> </div> <p style="font-size: small; margin-top: 5px;">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>											
AIR COOLED DATA											
Internal Cooling Fan Capacity [CFM]	953		953			1,089			1,265		
Approach Temp. [°F]	10.8		14.4			18			18		
Typical Heat Rejected [BTU / HR]	11,000		13,000			17,500			23,000		



Installation Data Sheet
Series: 1:1 Belt Drive SX.2
Document No.: TI-DATA-2008-SX 3T 4T 5T 7.5T
Version: 2.8
Revision Date: 04/17/2023

Model	SX 3T		SX 4T			SX 5T			SX 7.5T					
Rated Pressure [psig]	125	160	125	160	217	125	160	217	125	160	217			
II. ELECTRICAL DATA <i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>														
DRIVE MOTOR														
Motor HP	3		4			5			7.5					
Insulation Class	F		F			F			F					
Standard Voltage	208-230/460V/3ph/60Hz		208-230/460V/3ph/60Hz			208-230/460V/3ph/60Hz			208-230/460V/3ph/60Hz					
Full Load Amps [FLA] @ 208V/1ph/60Hz	-		-			CF			CF					
Full Load Amps [FLA] @ 208V/3ph/60Hz	8		10.7			14.4			18.8					
Full Load Amps [FLA] @ 230V/1ph/60Hz	-		-			22.1			29.5					
Full Load Amps [FLA] @ 230V/3ph/60Hz	7.4		10.1			14.4			18					
Full Load Amps [FLA] @ 460V/3ph/60Hz	3.7		5.1			7.2			9					
Full Load Amps [FLA] @ 575V/3ph/60Hz	3		4.1			5.8			7.2					
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			24					
Control Cabinet Class (NEMA)	12		12			12			12					
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*		50			50			50					
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*		50			50			50					
Package Full Load Amps [FLA] @ 208V/1ph/60Hz	-		-			29			38					
Package Full Load Amps [FLA] @ 208V/3ph/60Hz	11		13			18			23					
Package Full Load Amps [FLA] @ 230V/1ph/60Hz	-		-			26			34					
Package Full Load Amps [FLA] @ 230V/3ph/60Hz	10		13			18			22					
Package Full Load Amps [FLA] @ 460V/3ph/60Hz	5		6			9			11					
Package Full Load Amps [FLA] @ 575V/3ph/60Hz	4		5			7			9					
Recommended Disconnect Fuse Size [Amps] @ 208V/1ph/60Hz	-		-			50			60					
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz	15		15			25			30					
Recommended Disconnect Fuse Size [Amps] @ 230V/1ph/60Hz	-		-			45			50					
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	15		15			25			30					
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	10		10			15			15					
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	6		10			10			15					
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/1ph/60Hz	-		-			8 AWG per phase and ground			6 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz	14 AWG per phase and ground		14 AWG per phase and ground			10 AWG per phase and ground			10 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/1ph/60Hz	-		-			8 AWG per phase and ground			8 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz	14 AWG per phase and ground		14 AWG per phase and ground			10 AWG per phase and ground			10 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	14 AWG per phase and ground		14 AWG per phase and ground			14 AWG per phase and ground			14 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			14 AWG per phase and ground			14 AWG per phase and ground					



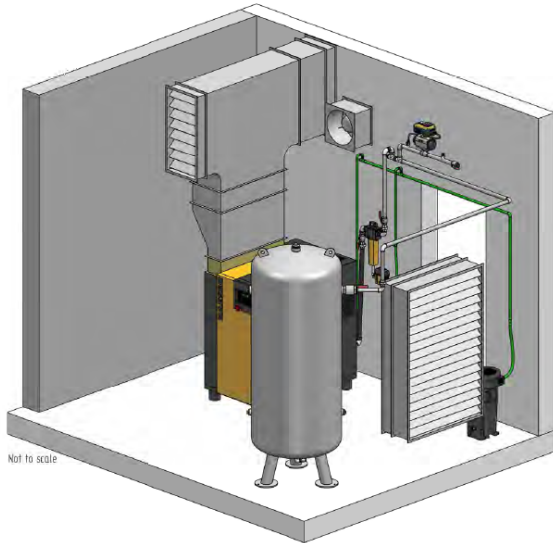
Installation Data Sheet
Series: 1:1 Belt Drive SX.2
Document No.: TI-DATA-2008-SX 3T 4T 5T 7.5T
Version: 2.8
Revision Date: 04/17/2023

Model	SX 3T		SX 4T			SX 5T			SX 7.5T			
	125	160	125	160	217	125	160	217	125	160	217	
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]											
	61		62			63			66			
A/C Air Discharge [inches NPT or Flange]	3/4 NPT		3/4 NPT			3/4 NPT			3/4 NPT			
Power Input Conduit Opening(s) [inches]	1 1/4		1 1/4			1 1/4			1 1/4			
Condensate Drain Connection [NPT]	1/4		1/4			1/4			1/4			
Width [inches]	23 1/4		23 1/4			23 1/4			23 1/4			
Depth [inches]	36		36			36			36			
Height [inches]	38 1/8		38 1/8			38 1/8			38 1/8			
Floor Space [sq. ft.]	5 4/5		5 4/5			5 4/5			5 4/5			
Weight (A/C) [lb]	Weight may vary based on airend selected.											
	408		408			419			441			
COMPRESSOR FLUID DATA												
Fluid Capacity (A/C) [qt]	3.0		3.0			3.0			3.0			
Flow Rate [gal/min]	1.3		1.3			1.3			1.3			
Typical Oil Consumption [fl. Oz./100 h]	0.3		0.4			0.5			0.7			
Standard Fluid Type	Sigma S-460		Sigma S-460			Sigma S-460			Sigma S-460			
MAINTENANCE PARTS												
Air Inlet Filter	6.4212.0											
Filter Mat (optional)	5.3398.0											
Filter Mat for Control Cabinet	402532											
Fluid Filter	6.3461.1											
Fluid Separator Kit	6.4334.1											
Maintenance Kit for Optional 5-year warranty	AN5YRKTSX2											
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	AN5YRKTSX2F											
DRYER DATA - FOR T MODELS												
Dryer Model	ABT 4		ABT4			ABT8		ABT4		ABT8		ABT4
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]	232		232			232		232		232		232
Nominal Pressure Drop at Rated Flow [psid]	1.6		1.6			1.6		1.6		1.6		1.6
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.											
	38		38			38		38		38		38
REFRIGERATION SYSTEM DATA - FOR T MODELS												
Compressor Type	GL 60 TG		GL 60 TG			GL 60 TG		GL 60 TG		GL 60 TG		GL 60 TG
BTU/Refrigeration ASHRAE	1750		1750			1750		1750		1750		1750
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.											
	80		80			83		83		83		83
Refrigerant Type	R-513A		R-513A			R-513A		R-513A		R-513A		R-513A
GWP (Global Warming Potential)	631		631			631		631		631		631
CO2 equivalent [t]	0.1		0.1			0.13	0.1	0.13	0.1	0.13	0.1	
Refrigerant Charge [lb]	0.37		0.37			0.44	0.37	0.44	0.37	0.44	0.37	
Air Flow Across Condenser [CFM]	306		306			441	306	441	306	441	306	
Air Receiver Tank Size - AIRCENTER units only [gal]	Simplex / Duplex tank size is 100 gallons											
	52.8		52.8			52.8		52.8		52.8		52.8

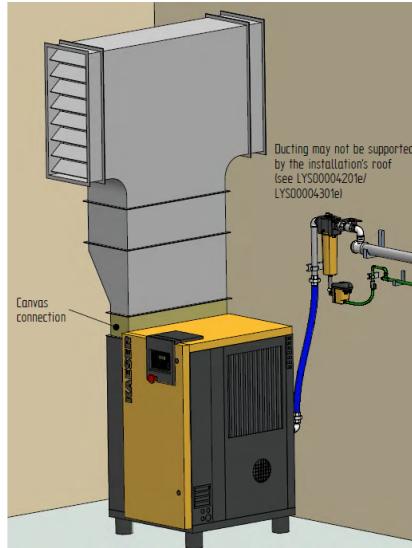
Model	SX 3T		SX 4T			SX 5T			SX 7.5T		
Rated Pressure [psig]	125	160	125	160	217	125	160	217	125	160	217

SAMPLE SKETCHES

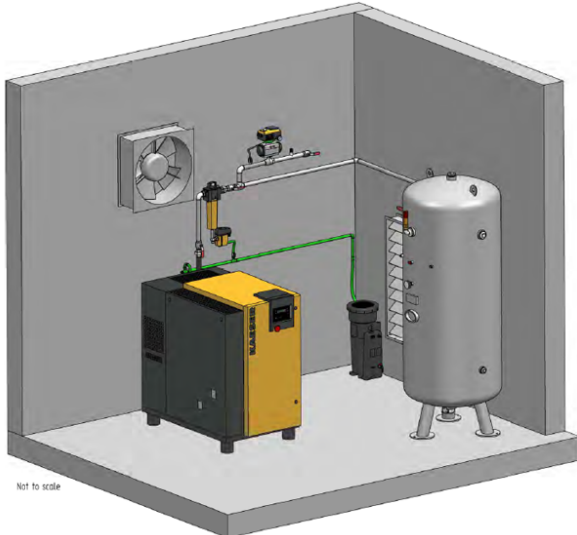
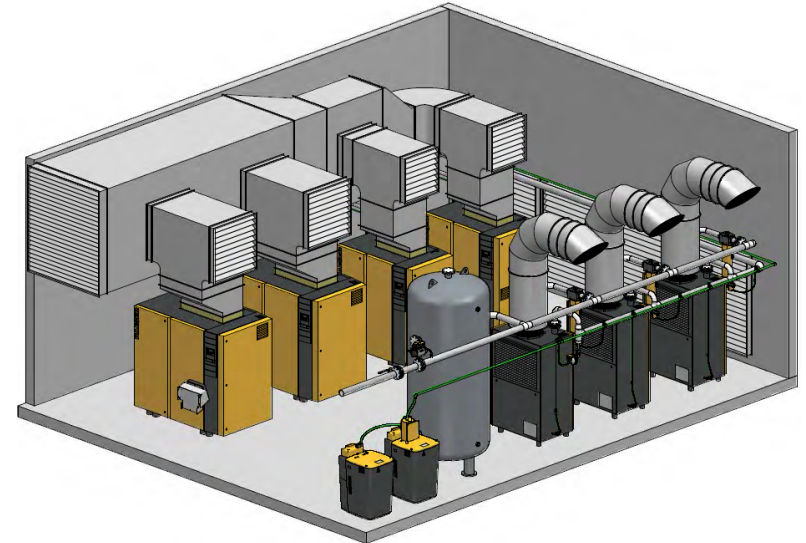
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



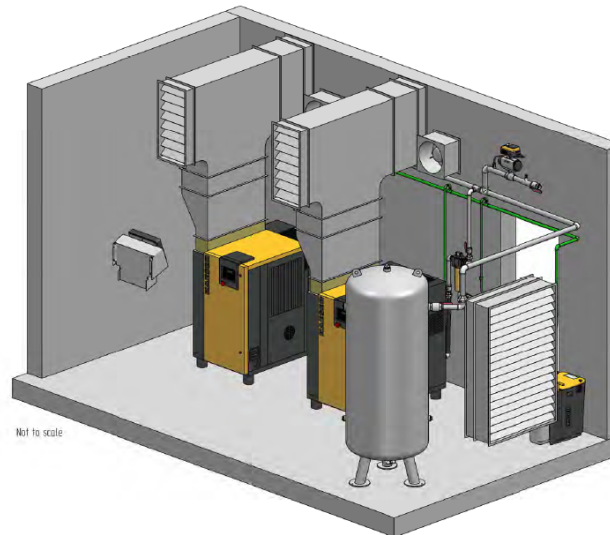
SK 20 T / F26KE Sample Layout



Duct / Pipe connection SX



SK 20 T / F26KE Sample Layout



2x SK 20 T / 2x F26KE

Example designs only, not for construction purposes.