

Installation Data Sheet
Series: 1:1 Belt Drive SX.2
Document No.: TI-DATA-2008-SX 3 4 5 7.5
Version: 2.7
Revision Date: 04/17/2023

Model	SX 3		SX 4			SX 5		SX 7.5		
	125	160	125	160	217	125	160	217	125	160

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)	589		706			883		1,177	
----------------------------------	-----	--	-----	--	--	-----	--	-------	--

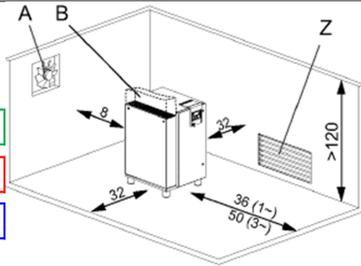
Solution B (exhaust air used for space heating) as shown in service manual

Internal Cooling Fan Capacity [CFM] (A/C)	647		647			647		824	
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	
---	---------	--	---------	--	--	---------	--	---------	--

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.

Model shown for reference only
Actual Duct size may vary with installation



Solution A Exhaust Fan

Solution B Exhaust Duct

Ventilation of Compressor Room Z

AIR COOLED DATA

Internal Cooling Fan Capacity [CFM]	647		647			647		824	
Approach Temp. [°F]	10.8		14.4			18		18	

Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.

Typical Heat Rejected [BTU / HR]	10,500		12,500			16,000		22,000	
----------------------------------	--------	--	--------	--	--	--------	--	--------	--

II. ELECTRICAL DATA

Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.

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	-		-			24		33	
Full Load Amps [FLA] @ 208V/3ph/60Hz	8		11			14		19	
Full Load Amps [FLA] @ 230V/1ph/60Hz	-		-			22		30	
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			6		7	

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	50		50			50		50	
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	50		50			50		50	
Package Full Load Amps @ 208V/1ph/60Hz [FLA]	-		-			26		35	
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	9.4		12			16		20	
Package Full Load Amps @ 230V/1ph/60Hz [FLA]	-		-			24		32	
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	8.7		11			16		19	
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	4.4		5.6			7.8		9.6	
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	4		5			6		8	



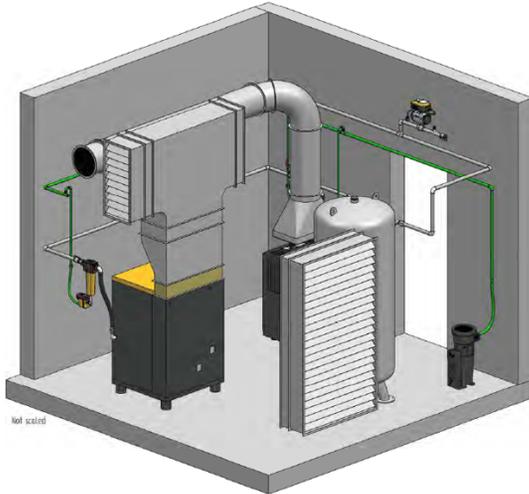
Installation Data Sheet
Series: 1:1 Belt Drive SX.2
Document No.: TI-DATA-2008-SX 3 4 5 7.5
Version: 2.7
Revision Date: 04/17/2023

Model	SX 3		SX 4			SX 5		SX 7.5				
	125	160	125	160	217	125	160	217	125	160	217	
Recommended Disconnect Fuse Size [Amps] @ 208V/1ph/60Hz/DOL	-	-	-	-	-	45	-	-	-	60	-	
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz	15	-	15	-	-	20	-	-	15	-	30	
Recommended Disconnect Fuse Size [Amps] @ 230V/1ph/60Hz/DOL	-	-	-	-	-	40	-	-	-	50	-	
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	15	-	15	-	-	20	-	-	15	-	25	
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	6	-	10	-	-	10	-	-	6	-	15	
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	6	-	10	-	-	10	-	-	6	-	10	
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/1ph/60Hz/DOL	-	-	-	-	-	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	-	-	12 AWG per phase and ground	-	-	10 AWG per phase and ground	-	-	
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/1ph/60Hz/DOL	N/A	-	N/A	-	-	10 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	-	-	12 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 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]	N/A		N/A			N/A		N/A				
Width [inches]	23 1/4		23 1/4			23 1/4		23 1/4				
Depth [inches]	24 7/8		24 7/8			24 7/8		24 7/8				
Height [inches]	38 1/4		38 1/4			38 1/4		38 1/4				
Floor Space [sq. ft.]	4		4			4		4				
Weight (A/C) [lb]	Weight may vary based on airend selected.					309	309	320	342			
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		0.39			0.53		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						

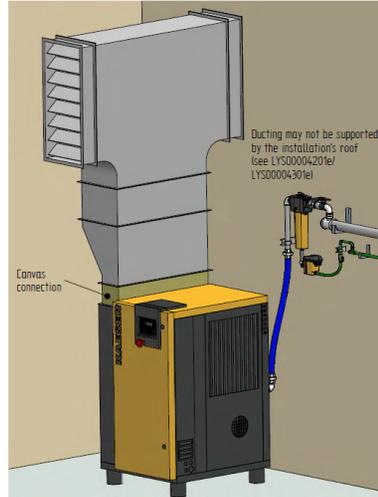
Model	SX 3		SX 4			SX 5			SX 7.5			
	Rated Pressure [psig]		125	160	125	160	217	125	160	217	125	160

SAMPLE SKETCHES

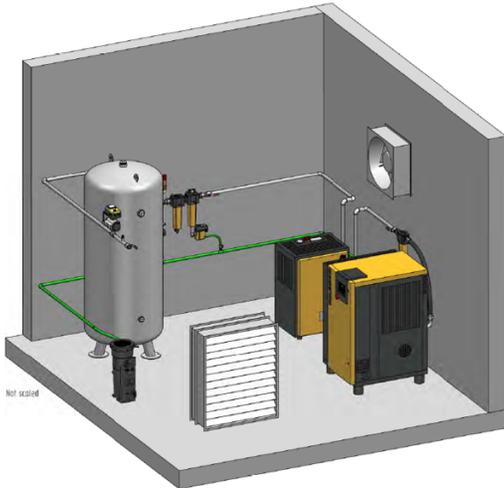
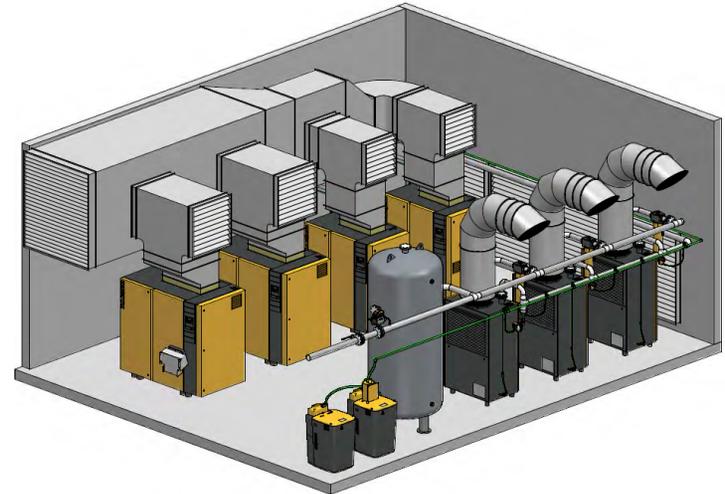
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



SK 20 / TB 26 / F26KE / F26KA Sample Layout



Duct / Pipe connection SX



SK 20 / TB 26 / F26KE / F26KA Sample Layout

Example designs only, not for construction purposes.