

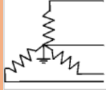
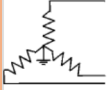


Installation Data Sheet
Series: 1:1 Belt Drive AS.3
Document No.: TI-DATA-2014-AS 20 25 30
Version: 2.5
Revision Date: 04/17/2023

Model	AS 20						AS 25						AS 30																																										
	Rated Pressure [psig]						110	125	145	160	190	217	110	125	145	160	190	217	110	125	145	160	190	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		5.4						5.4						6.5																																									
Solution A (forced ventilation with exhaust fan) as shown in service manual																																																							
Cooling Fan Capacity [CFM] (A/C)		3,532						4,414						5,297																																									
Solution B (exhaust air used for space heating) as shown in service manual																																																							
Internal Cooling Fan Capacity [CFM] (A/C)		2,354						2,354						2,943																																									
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)		0.24						0.24						0.16																																									
Exhaust Air Opening Reference Dimensions (L x W) [in]		26 x 26						26 x 26						26 x 26																																									
<p style="text-align: center;">Model shown for reference only Actual Duct size may vary with installation</p>		<p style="font-size: small;">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]		2,354						2,354						2,943																																									
Approach Temp. [°F]		10.8						9						7.2						12.6						10.8						9						14.4						12.6						10.8					
Typical Heat Rejected [BTU / HR]		65,000						79,500						94,500																																									
Fan Motor [HP], oilcooler/aircooler		0.75						0.75						0.75																																									
II. ELECTRICAL DATA																																																							
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>																																																							
DRIVE MOTOR																																																							
Motor HP		20						25						30																																									
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		51						62						72																																									
Full Load Amps [FLA] @ 230V/3ph/60Hz		47						58						66																																									
Full Load Amps [FLA] @ 460V/3ph/60Hz		23.5						29						33																																									
Full Load Amps [FLA] @ 575V/3ph/60Hz		19						23						27																																									
FAN MOTOR (A/C)																																																							
Insulation Class		F						F						F																																									
Fan Motor [HP], oilcooler aircooler		0.75						0.75						0.75																																									
Full Load Amps [FLA] @ 460V/3ph/60Hz		1.47						1.47						1.47																																									
Full Load Amps [FLA] @ 575V/3ph/60Hz		1.18						1.18						1.18																																									



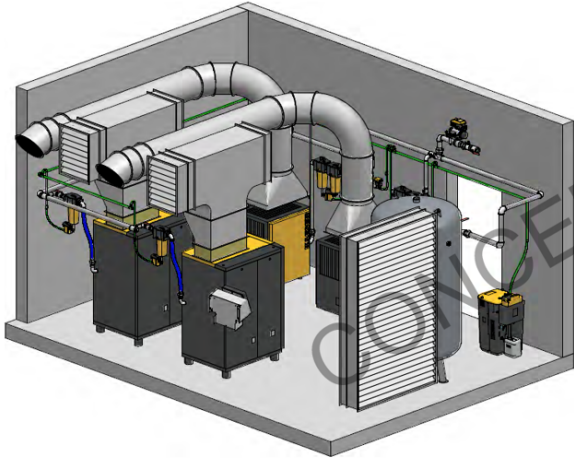
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	Rated Pressure [psig]						110	125	145	160	190	217	110	125	145	160	190	217	110	125	145	160	190	217											
TOTAL PACKAGE DATA (A/C)																																			
Do NOT operate package on any unsymmetrical power supply. Also do NOT operate 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						24						24											
Control Cabinet Class (NEMA)												12						12						12											
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz												50						50						50											
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz												25						25						25											
Package Full Load Amps @ 208V/3ph/60Hz [FLA]												62						75						86											
Package Full Load Amps @ 230V/3ph/60Hz [FLA]												57						70						80											
Package Full Load Amps @ 460V/3ph/60Hz [FLA]												29						35						40											
Package Full Load Amps @ 575V/3ph/60Hz [FLA]												23						28						32											
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz												90						110						125											
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz												80						100						110											
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz												40						50						60											
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz												30						40						45											
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz												3 AWG per phase and ground						2 AWG per phase and ground						1 AWG per phase and ground											
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz												4 AWG per phase and ground						2 AWG per phase and ground						2 AWG per phase and ground											
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz												8 AWG per phase and ground						8 AWG per phase and ground						6 AWG per phase and ground											
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz												10 AWG per phase and ground						8 AWG per phase and ground						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]						67						69						71					
A/C Air Discharge [inches NPT or Flange]												1 1/4 NPT						1 1/4 NPT						1 1/4 NPT											
Power Input Conduit Opening(s) [inches]												2 1/4						2 1/4						2 1/4											
Condensate Drain Connection [NPT]												N/A						N/A						N/A											
Width [inches]												31 1/2						31 1/2						31 1/2											
Depth [inches]												43 7/8						43 7/8						43 7/8											
Height [inches]												60 1/4						60 1/4						60 1/4											
Floor Space [sq. ft.]												9 3/5						9 3/5						9 3/5											
Weight (A/C) [lb]												Weight may vary based on airend selected.						1,070						1,114						1,158					
COMPRESSOR FLUID DATA																																			
Fluid Capacity (A/C) [gal]												2.9						2.9						2.9											
Flow Rate [gal/min]												6.3						6.3						6.3											
Typical Oil Consumption [fl. Oz./100 h]												2.5						3						3.5											
Standard Fluid Type												Sigma S-460						Sigma S-460						Sigma S-460											
MAINTENANCE PARTS																																			
Air Inlet Filter																		6.4163.0																	
Filter Mat (optional)																		5.6143.0																	
Filter Mat for Control Cabinet																		6.3572.0 (x2)																	
Fluid Filter																		6.3463.0																	
Fluid Separator Kit																		6.3789.1																	
Maintenance Kit for Optional 5-year warranty																		ANAKASK3S2																	
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant																		ANAKASK3F2																	

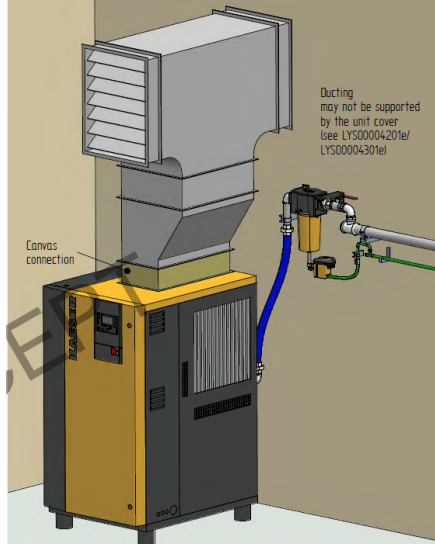
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	110	125	145	160	190	217	110	125	145	160	190	217	110	125	145	160	190	217
Rated Pressure [psig]																		

SAMPLE SKETCHES

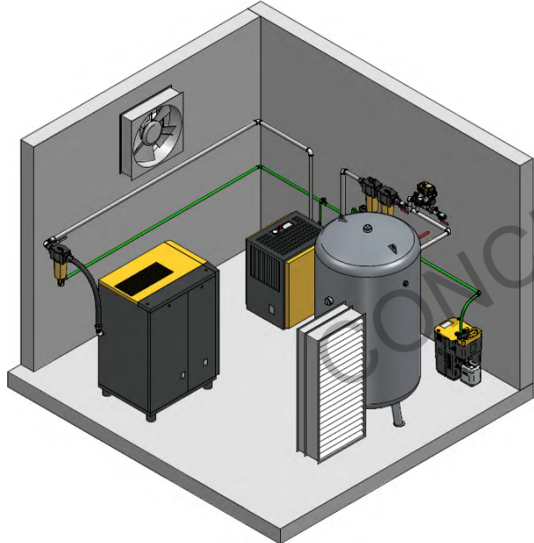
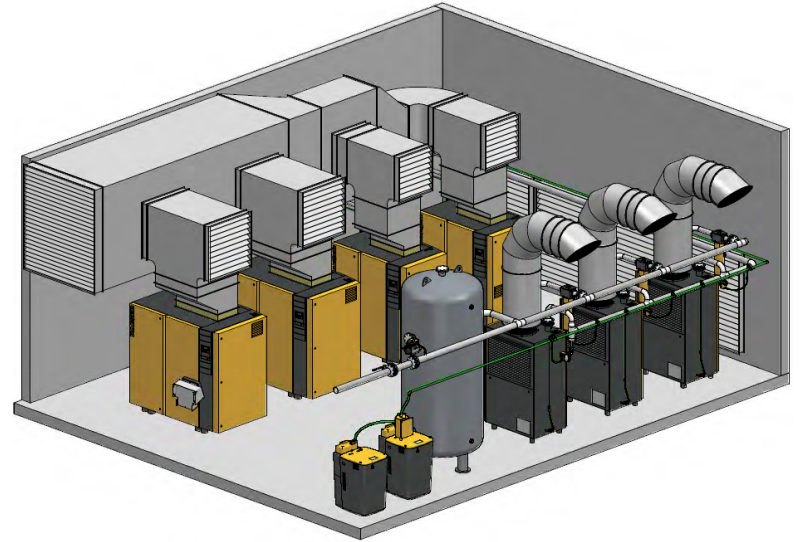
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



2x AS 30 / 2x TC 44 / 2x F46KE/KA Sample Layout



Duct / Pipe connection AS



AS 30 / TC 44 / F46KE/KA Sample Layout

Example designs only, not for construction purposes.