



Installation Data Sheet
Series: 1:1 Belt Drive AS.3
Document No.: TI-DATA-2014-AS 20T 25T 30T
Version: 2.7
Revision Date: 04/17/2023

Model	AS 20T						AS 25T						AS 30T														
	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	6.5						7.5						8.6														
Solution A (forced ventilation with exhaust fan) as shown in service manual																											
Cooling Fan Capacity [CFM] (A/C)	4,709						5,592						6,474														
Solution B (exhaust air used for space heating) as shown in service manual																											
Internal Cooling Fan Capacity [CFM] (A/C)	Compressor			Dryer			Compressor			Dryer			Compressor			Dryer											
	2,354			883			2,354			883			2,943			883											
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>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>																											
<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																											
AIR COOLED DATA																											
Internal Cooling Fan Capacity [CFM]	2,354						2,354						2,943														
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						10.8						9														
	10.8			9			7.2			12.6			10.8			9			14.4			12.6			10.8		
Typical Heat Rejected [BTU / HR]	67,500						82,000						97,000														
Fan Motor [HP], oilcooler/aircooler	0.75						0.75						0.75														



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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	24						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					
TOTAL PACKAGE DATA (A/C)																		
<p>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.</p>																		
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]	67						80						91					
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	62						75						84					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	31						38						42					
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	25						30						34					
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz	100						110						125					
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	90						110						125					
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	45						50						60					
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	35						45						50					
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz	3 AWG per phase and ground						1 AWG per phase and ground						1/0 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/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] @ 460V/3ph/60Hz	8 AWG per phase and ground						6 AWG per phase and ground						6 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	8 AWG per phase and ground						8 AWG per phase and ground						8 AWG per phase and ground					



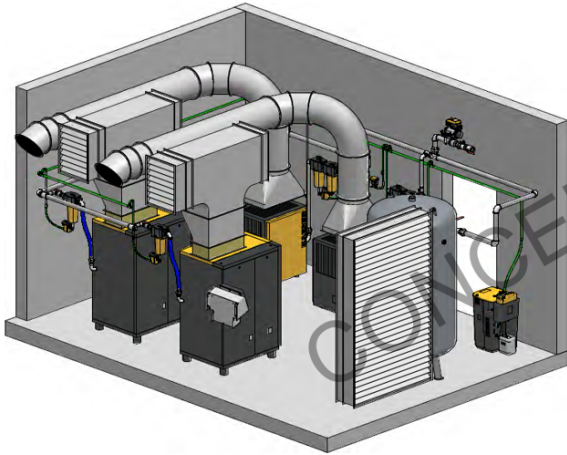
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INSTALLATION and MAINTENANCE DATA																								
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]						67						69						71					
A/C Air Discharge [inches NPT or Flange]	1 1/4 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]	1/4						1/4						1/4											
Width [inches]	31 1/2						31 1/2						31 1/2											
Depth [inches]	57 5/8						57 5/8						57 5/8											
Height [inches]	60 1/4						60 1/4						60 1/4											
Floor Space [sq. ft.]	12 3/5						12 3/5						12 3/5											
Weight (A/C) [lb]	Weight may vary based on airend selected.						1,279						1,323						1,367					
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																	
DRYER DATA - FOR T MODELS																								
Dryer Model	ABT 40						ABT 40						ABT 40											
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]	232						232						232											
Nominal Pressure Drop at Rated Flow [psid]	2.8						2.8						2.8											
Rated Dewpoint [°F] at Standard Conditions	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						38						38											
REFRIGERATION SYSTEM DATA - FOR T MODELS																								
Compressor Type	RK5480-U						RK5480-U						RK5480-U											
BTU/Refrigeration ASHRAE	7865						7865						7865											
Outlet Air Temperature (Nominal at Rated Conditions) [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						73						73											
Refrigerant Type	R-513A						R-513A						R-513A											
GWP (Global Warming Potential)	631						631						631											
CO2 equivalent [t]	0.26						0.26						0.26											
Refrigerant Charge [lb]	0.9						0.9						0.9											
Air Flow Across Condenser [CFM]	883						883						883											

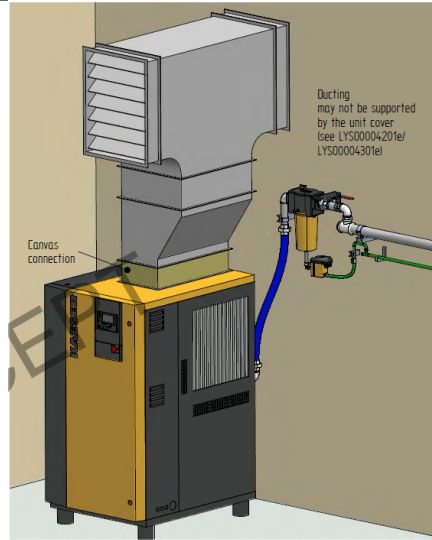
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SAMPLE SKETCHES

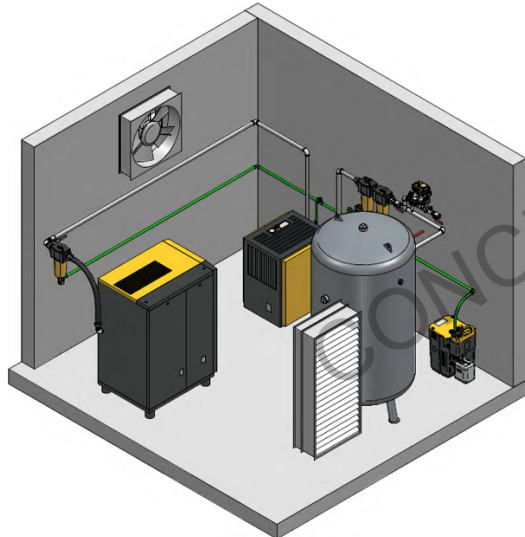
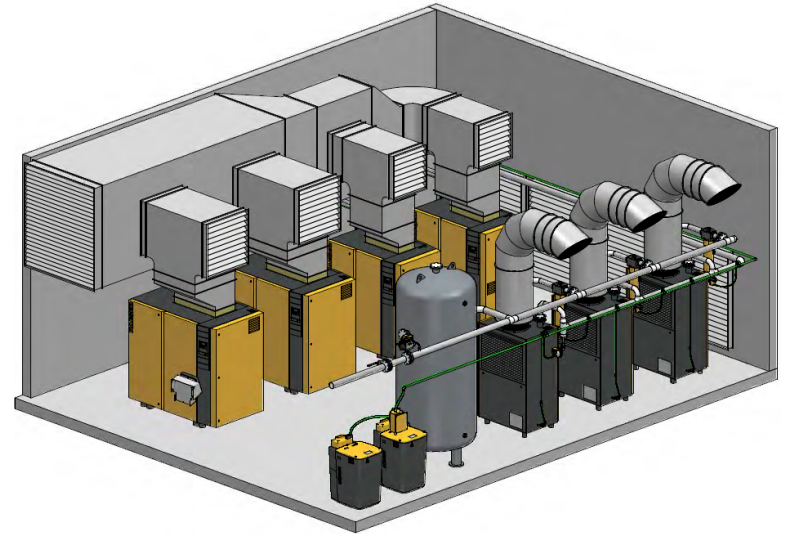
Sample Installation Planning
Examples of room ventilation and ductwork
 Please note the upsizing required for compressor exhaust ducts



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.