



Installation Data Sheet
 Series: 1:1 Belt Drive AS.3
 Document No.: TI-DATA-2014-AS 20T 25T 30T
 Version: 2.9
 Revision Date: 12/8/25

Model	AS 20T						AS 25T						AS 30T					
	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>Model shown for reference only Actual Duct size may vary with installation</p> <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>																		
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	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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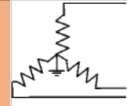
II. ELECTRICAL DATA *Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.*

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)

Do NOT operate package on an unsymmetrical power supply. Also do NOT operate package power supplies such as a three-phase WYE system with the center point not solidly grounded or on a three-phase (open) delta system. The machine requires a symmetrical three-phase power supply transformer with a WYE configuration as shown. With a symmetrical three-phase supply the phase angles and voltages are all the same. Other power supplies are not suitable.



Three-phase star circuit (WYE); 3 wire; center point solidly grounded

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	*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						100						110					
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz							90						110					
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz							45						50					
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz							35						45					
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.						3 AWG per phase and ground						1 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					
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz							8 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					



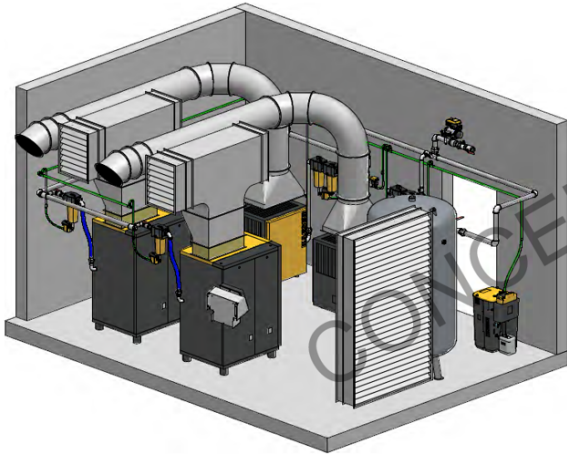
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	Rated Pressure [psig]						110	125	145	160	190	217	110	125	145	160	190	217	110	125	145	160	190	217					
INSTALLATION and MAINTENANCE DATA																													
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according 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)	629						629						629																
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																

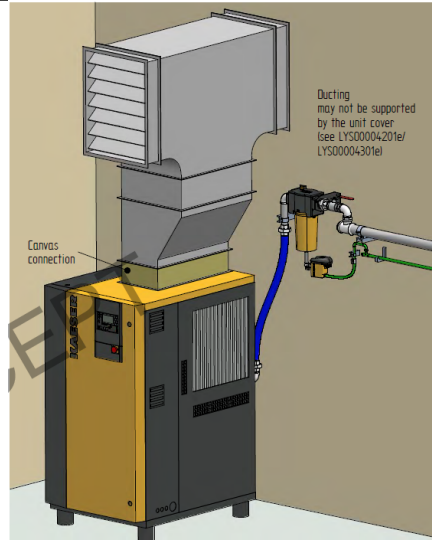
Model Rated Pressure [psig]	AS 20T						AS 25T						AS 30T					
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SAMPLE SKETCHES

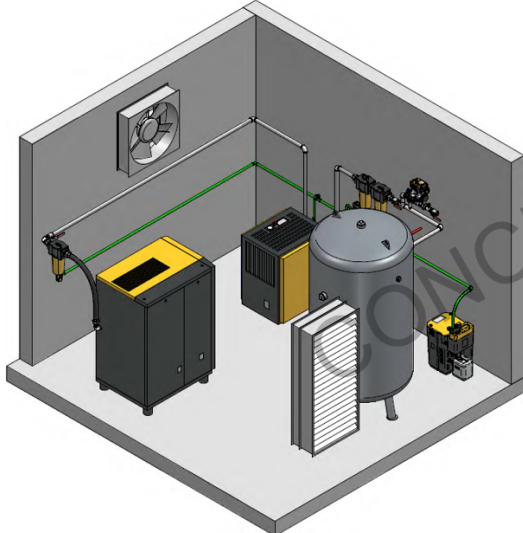
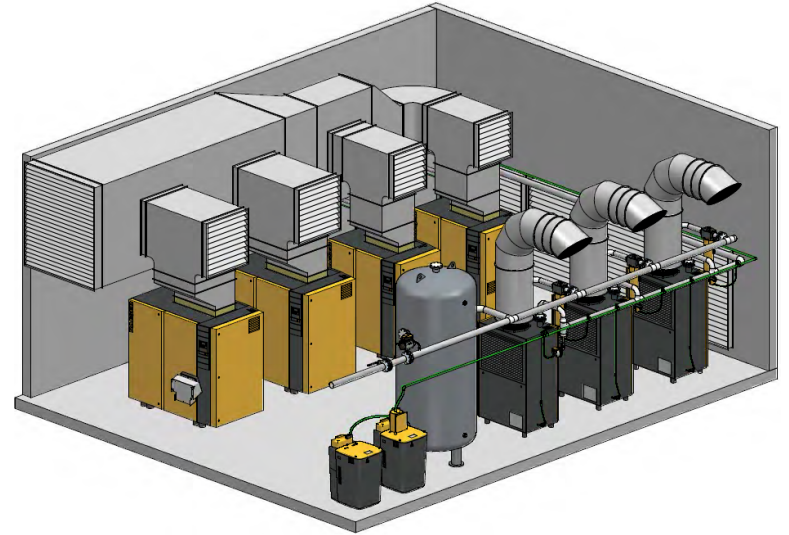
Sample Installation Planning
Examples of room ventilation and ductwork
Please note the upsizing required for compressor exhaust ducts



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.