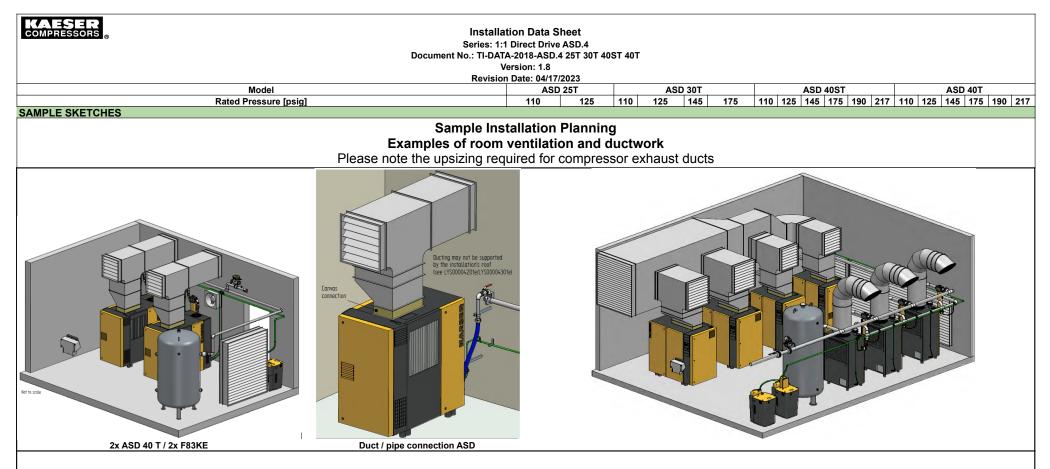
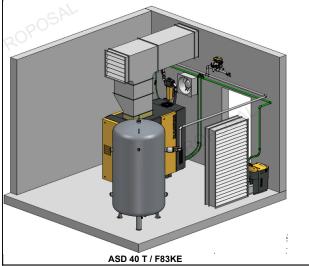
Installation Data Sheet COMPRESSORS ® Installation Data Sheet Series: 1:1 Direct Drive ASD.4 Document No.: TI-DATA-2018-ASD.4 25T 30T 40ST 40T Version: 1.8 Revision Date: 04/17/2023											
Model		ASD		ASD 30T		ASD 40ST		ASD 40T			
Rated Pressure [p	sial	110	125	110		145 175			110 125 145 175		
I. COOLING DATA				1.10			1110 1120 111				
Cooling System Available [Std., Opt.]		A/	2	T	A	/C	A/C		A/C		
Standard Ambient Temp. Range [°F]		40 -	115			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		8.6	9.7				
Solution Λ (forced ventilation with exhaust fan) as shown in serv	ico manual										
Solution A (forced ventilation with exhaust fan) as shown in service manual Cooling Fan Capacity [CFM] (A/C)		5.297		1	5,886		7.063		8,240		
			1	0,000				0,210			
Solution B (exhaust air used for space heating) as shown in serv	ice manual			0							
Internal Cooling Fan Capacity [CFM] (A/C)		Compressor	Dryer		ressor	Dryer	Compressor	Dryer	Compressor	Dryer	
May Additional Pressure Dran for Dueto linch Water Only 21 (A (O)		2,649	1,118	2,6	649	1,118 24	2,649	<u>1,118</u> 0.24	3,120	1,118	
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)	See drawing for actual dimensions. The actual individual	0.2	4		0.	24		0.24	0.10		
Exhaust Air Opening Reference Dimensions (L x W) [in]	duct dimension will vary for every installation based on actual length, number and type of bends, accessories etc.	23 x	23	23 x 23		23 x 23		23 x 23			
Actual Duct size may vary with installation Solution A Exhaust Fan Solution B Exhaust Duct Ventilation of Compressor Room											
AIR COOLED DATA		I		1			1				
Internal Cooling Fan Capacity [CFM]		2,64	19		2,6	549	2	2,649	3,120	_	
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	7.:	2	10).8	9	10.8	9 7.2	14.4 12.6	10.8	
Typical Heat Rejected [BTU / HR]		71,5	00		85.	000	9	9.500	118,500		
Fan Motor [HP], oilcooler/aircooler		0.7			,	75		0.75	0.75		
II. ELECTRICAL DATA	Electrical data may vary in accordance with more	tor manufactu	rer's specifi	ications.	Motors a	are EISA complia	ant.		1		
DRIVE MOTOR											
Motor HP		25	;			0		40	40		
Insulation Class		2;		-	-	F		40 F	40 F		
Standard Voltage		208-230 / 460		208		0V/3ph/60Hz	208-230 / /	460V/3ph/60Hz	208-230 / 460V/3	hh/60Hz	
Full Load Amps [FLA] @ 208V/3ph/60Hz		208-2307400		200		'4	200-2307-	98	98	/pr#00112	
Full Load Amps [FLA] @ 2007/3ph/60Hz		55		-		<u>4</u> 0		90	90		
Full Load Amps [FLA] @ 2307/3ph/60Hz		28				0 15		46	46		
Full Load Amps [FLA] @ 4007/3ph/60Hz		22		-		8		37	37		
ruii Luau Amps [rlA] @ 575973ph/00H2		24	-	L	4	.0		51	37		

KAESER Installation Data Sheet Series: 1:1 Direct Drive ASD.4 Document No.: TI-DATA-2018-ASD.4 25T 30T 40ST 40T Version: 1.8 Revision Date: 04/17/2023							
Model	ASD 25T 110 125	ASD 30T 110 125 145 175	ASD 40ST	ASD 40T 110 125 145 175 190 217			
Rated Pressure [psig]		110 125	110 125 145 175	110 125 145 175 190 217	110 125 145 175 190 217		
FAN MOTOR (A/C) Insulation Class		F	F	F	F		
Fan Motor [HP], oilcooler aircooler			0.75	0.75	0.75		
Full Load Amps [FLA] @ 208V/3ph/60Hz		0.75	2.7	2.7	2.7		
Full Load Amps [FLA] @ 2007/3ph/60Hz			2.5	2.5	2.5		
Full Load Amps [FLA] @ 460V/3ph/60Hz		2.5 1.5	1.5	1.5	1.5		
Full Load Amps [FLA] @ 575V/3ph/60Hz			1.2	1.2	1.2		
TOTAL PACKAGE DATA (A/C)		1.2					
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.							
Continuous Duty [Hours per day]		24 12	24	24	24		
Control Cabinet Class (NEMA)	ontrol Cabinet Class (NEMA)		12	12	12		
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	Field installed fuse required, see below*	50	50	50	50		
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*	30	30	30	30		
Package Full Load Amps @ 208V/3ph/60Hz [FLA]		72	86	100	116		
Package Full Load Amps @ 230V/3ph/60Hz [FLA]		65	81	93	107		
Package Full Load Amps @ 460V/3ph/60Hz [FLA]		33	41	47	54		
Package Full Load Amps @ 575V/3ph/60Hz [FLA]		26	33	38	43		
Recommended Disconnect Fuse Size [Amps] @ 208V/3ph/60Hz	*Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT) /	100	125	150	175		
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	Class L > 600A (e.g. A4BQ). Based on 2020 NEC 240.6, 430.52, and Tables 430.52,	100	110	125	150		
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	430.248, and 430.250	50	60	70	80		
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz		40	50	50	60		
Recommended Disconnect Wire Size [AWG/kcmil] @ 208V/3ph/60Hz	The following multi-strand copper core wires are given	2 AWG per phase and ground	1/0 AWG per phase and ground	2/0 AWG per phase and ground	2/0 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz	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	2 AWG per phase and ground	1 AWG per phase and ground	2/0 AWG per phase and ground	2/0 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	section should be checked and adjusted according to 2020 NEC 110.14(C), 220.3, 310.14, 310.15, 310.16, 430.6,	6 AWG per phase and ground	6 AWG per phase and ground	4 AWG per phase and ground	4 AWG per phase and ground		
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	430.22, 430.24, 670.4(A) and other local codes.	8 AWG per phase and ground	8 AWG per phase and ground	6 AWG per phase and ground	4 AWG per phase and ground		

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Revision Date: 04/17/2023							
Model	ASD 25T	ASD 30T	ASD 40ST	ASD 40T			
Rated Pressure [psig]	110 125	110 125 145 17	5 110 125 145 175 190 217	110 125 145 175 190 217			
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]	66	67	67	69			
A/C Air Discharge [inches NPT or Flange]	1 1/4 NPT	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	2 1/4			
Condensate Drain Connection [NPT]	1/4	1/4	1/4	1/4			
Width [inches]	69 5/8	69 5/8	69 5/8	69 5/8			
Depth [inches]	35 3/8	35 3/8	35 3/8	35 3/8			
Height [inches]	60 1/4	60 1/4	60 1/4	60 1/4			
Floor Space [sq. ft.]	17 1/9	17 1/9	17 1/9	17 1/9			
Weight (A/C) []b] Weight may vary based on airend selected.	1,554	1,579	1,746	1,779			
COMPRESSOR FLUID DATA	,						
Fluid Capacity (A/C) [gal]	4.0	4.0	4.0	4.0			
Flow Rate [gal/min]	7.9	7.9	7.9	7.9			
Typical Oil Consumption [fl. Oz./100 h]	2.82	3.29	4.06	4.76			
Standard Fluid Type	Sigma S-460	Sigma S-460	Sigma S-460	Sigma S-460			
MAINTENANCE PARTS							
Air Inlet Filter			6.4143.0				
Filter Mat (optional)	6.1943.00050 (2x)						
Filter Mat for Control Cabinet	7.4519.0 (2x)						
Fluid Filter	6.4778.0						
Fluid Separator Kit	6.3669.0						
Maintenance Kit for Optional 5-year warranty	ANAKASD4S						
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	ANAKASD4F						
DRYER DATA - FOR T MODELS							
Dryer Model	ABT 60	ABT 60	ABT 60	ABT 60			
Maximum Inlet Air Pressure (Compressed Air at Inlet to Dryer) [psig]	232	232	232	232			
Nominal Pressure Drop at Rated Flow [psid]	2.9	2.9	2.9	2.9			
Rated Pressure Dewpoint [°F] at Standard Conditions Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	38	38	38	38			
Pressure Dewpoint per ISO 8573-1	Class 4 - 6 based on ambient conditions.						
REFRIGERATION SYSTEM DATA - FOR T MODELS		1					
Compressor Type	TRK5512Y-XG	TRK5512Y-XG	TRK5512Y-XG	TRK5512Y-XG			
BTU/Refrigeration ASHRAE	9,980	9,980	9,980	9,980			
Outlet Air Temperature (Nominal at Rated Conditions) [°F] Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.	71	71	71	71			
Refrigerant Type	R-513A	R-513A	R-513A	R-513A			
GWP (Global Warming Potential)	631	631	631	631			
CO2 equivalent [t]	0.5	0.5	0.5	0.5			
Refrigerant Charge [lb]	1.7	1.7	1.7	1.7			
Air Flow Across Condenser [CFM]	1,118	1,118	1,118	1,118			





Example designs only, not for construction purposes.