Installation Data Sheet - Screw Blower COMPRESSORS IN Series: CBS.2 Document Number: TI.BIDS-035 Version: 1.3						
Revision Date: 04/24/2023						
Package Model	CBS 121 STC (L & M	1				
Electrical Data)				
Horsepower	10	15	20	25	30	
Voltage (3ph/60Hz)	460	460	460	460	460	
Short Circuit Current Rating (SCCR) [kA] 460V/3ph/60Hz	50	50	50	50	50	
Package FLA +/- 10%	15.4	21.7	29.3	33.3	41.3	
Disconnect Fuse [Amp]	20	25	35	40	50	
Recommended Wire Size (75°C or higher) [AWG]	1 x 4 x 12	1 x 4 x 10	1 x 4 x 8	1 x 4 x 8	1 x 4 x 6	
Motor Data						
Insulation Class	F	F	F	F	F	
Enclosure Type	TEFC	TEFC	TEFC	TEFC	TEFC	
Туре	ASM (IE4)	ASM (IE4)	ASM (IE4)	ASM (IE4)	ASM (IE4)	
2. Fuse and wire sizes determined in accordance to NEC 24	0.6, 430.52 and table				0	
 Fuse and wire sizes determined in accordance to NEC 24 Breaker should be suitable for a heavy duty starting load a 	0.6, 430.52 and table			utlines in NEC 430.5	2.	
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1. Time delay (dual element) fuse; Class J ≤ 600A (e.g. AJT 2. Fuse and wire sizes determined in accordance to NEC 24 3. Breaker should be suitable for a heavy duty starting load a 4. Ground wire size should be equal to conductor size. Oil System Data Drive End Capacity [qt.] Gear End Capacity [qt.] Oil Type (Synthetic) Working Pressure CBS 121 L STC pr CBS 121 M STC pr Package Connections HP Width [in.] Depth [in.] Height [in.] Floor [sq.ft.] Weight [ib.] Connection Size [in.] Type [inlet (optional) and outlet]	0.6, 430.52 and table and of inverse time de 10 10 10 43 5/8 53 7/8 66 5/8 16 1/3	Continued working p Continued working p Continued working p 15 43 5/8 53 7/8 66 5/8 16 1/3	0.97 1.11 G-680 ressures below 2.2 p ressures below 4.4 p 20 43 5/8 53 7/8 66 5/8 16 1/3	sig are not permitted sig are not permitted 25 43 5/8 53 7/8 66 5/8 16 1/3	30 43 5/8 53 7/8 66 5/8 16 1/3	

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Package Model	CBS 121 STC (L & M)				
General Information					
Floating Relay Contacts	Ambient and Intake Conditions				
Contacts:	Permissible ambient temperature [°F]* 32 - +113				
- X12: 1 and 2 Operation	Permissible intake temperature [°F]* +5 - +113				
- X12: 3 and 4 Ready for operation					
- X12: 5 and 6 Group Alarm	Maximum elevation [ft.asl]* 3280				
- X12: 7 and 8 Group Warning	*contact Kaeser about deviations in temperature or altitude				
Remote On/Off	External Alarm				
Contacts (not floating): powered 24 VDC -X15: 5 and 6 Function: - from open to closed: Machine switches on - from closed to open: Machine switches off	Contacts (not floating): powered 24 VDC DI: 1.08 Function: - the machine will switch off in the event of this external fault				
/entilation of Blower Room					
Air Inlet Opening	1.9 sq. ft				
Cooling Fan Capacity (forced ventilation)	662 cfm				
Max Heat Rejection	13,320 BTU/HR				
-	pient inlet. Max. room temp. = 113° F and cooling air temp = 95° F. Discharge piping length = 5ft.				
Model shown for reference only Actual duct size may vary with installation 2 1 /	Recommended machine placement and dimensions:				
	Inches				
1 Exhaust Fan	A Left side clearance = 3.9				
2 Ventilation Inlet Air Opening	B Front clearance = 43.3				
X Cross direction	C Right side clearance = 3.9				
Y Longitudinal direction	D Back clearance = 39.4 E Height clearance = 31.5				
	E Height clearance = 31.5				
he foundation must be firm and capable of bearing the	Foundation in the cross direction (X) must be level, inclination max. 0.8°				
weight of the machine.	Foundation in the longitudinal direction (Y) must be level, inclination max. 2.0				
	It is recommended to extract the exhaust air from the upper third of the room as this is where the heat collects. The room ventilation openings should be arranged that the current of cooling air flowing through the room passes over the blower inlet and exhaust ports and, if possible, should leave no stagnant air in the room. (A thermal short circuit must be avoided, i.e. discharged cooling air must not find its way to the cooling air inlet.) The blower must not be positioned so near to a wall that the inflow of cooling air is obstructed.				
	Pipework should be insulated against heat emission. If the blower station is located in the middle of a large hall its exhaust air can be extracted by means of a duct positioned above the exhaust port (illustrated in broken lines).				