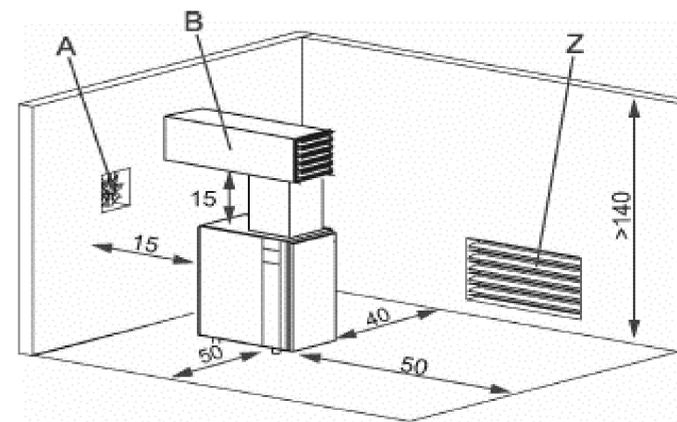




**Installation Data Sheet**  
 Series: 1:1 Direct Drive CSDX.5  
 Document No.: TI-DATA-2018-CSD 100 125  
 Version: 1.1  
 Revision Date: 10/28/19

Model Rated Pressure [psig]	CSD 100						CSD 125					
	110	125	145	175	190	217	110	125	145	175	190	217
<b>I. COOLING DATA</b>												
Cooling System Available [Std., Opt.]	A/C, W/C						A/C, W/C					
Standard Ambient Temp. Range [°F]	40 - 115						40 - 115					
<b>VENTILATION OF COMPRESSOR ROOM</b>												
Air Inlet Opening [sq. ft. <b>free area</b> ] (A/C) Z	19.4						23.7					
Air Inlet Opening [sq. ft. <b>free area</b> ] (W/C) Z	3.2						3.2					
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>												
Cooling Fan Capacity [CFM] (A/C)	14,714						17,657					
Cooling Fan Capacity [CFM] (W/C)	2,354						2,766					
<b>Solution B (exhaust air used for space heating) as shown in service manual</b>												
Internal Cooling Fan Capacity [CFM] (A/C)	6,474						7,652					
Internal Cooling Fan Capacity [CFM] (W/C)	1,001						1,001					
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)   (W/C)	0.24 / 0.12						0.24 / 0.12					
Exhaust Air Opening Reference Dimensions (L x W) [in]	40 x 40						40 x 40					

Model shown for reference only  
 Actual Duct size may vary with installation



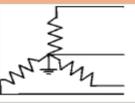
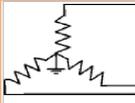
Recommended machine placement and dimensions

	Compressor to Duct clearance =	inches
		15
L	Left side clearance =	15
R	Right side clearance =	50
F	Front clearance =	50
BK	Back clearance =	40
H	Height clearance =	140

<b>AIR COOLED DATA</b>												
Internal Cooling Fan Capacity [CFM]	6,474						7,652					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						12.6   10.8   9   12.6   10.8   9					
Typical Heat Rejected [BTU / HR]	308,000						362,000					
Fan Motor [HP]	1.3						1.9					
<b>WATER COOLED DATA</b>												
Type of heat exchangers	stainless steel, plate type						stainless steel, plate type					
Internal Cooling Fan Capacity [CFM]	1,001						1,001					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.						5.4   5.4					
Heat Rejected into Cooling Water [BTU / HR]	312,000						365,500					
Heat Rejected into Cooling Air [BTU / HR]	25,234						26,058					
Max. outlet temperature [°F]	Discharge temperature limited for non-treated water (to prevent calcification).						122   122					
Temperature differential between inlet water and max. discharge water temperature [°F]	20		50		20		50					
Max. inlet water temperature [°F]	104		68		104		68					
Min. cooling water flow [gpm]	30		12		35		14					
Pressure drop across compressor package [psi] <b>WITHOUT</b> cooling water throttling valve	7		2		9		2					
Pressure drop across compressor package [psi] <b>WITH</b> cooling water throttling valve	36		7		48		9					



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	110	125	145	175	190	217	110	125	145	175	190	217						
<b>Rated Pressure [psig]</b>																		
<b>II. ELECTRICAL DATA</b> <i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>																		
<b>DRIVE MOTOR</b>																		
Motor HP	100						125											
Insulation Class	F						F											
Standard Voltage	460V/3ph/60Hz						460V/3ph/60Hz											
Full Load Amps [FLA] @ 208V/3ph/60Hz	-						-											
Full Load Amps [FLA] @ 230V/3ph/60Hz	235						270											
Full Load Amps [FLA] @ 460V/3ph/60Hz	114						135											
Full Load Amps [FLA] @ 575V/3ph/60Hz	97						109											
<b>FAN MOTOR (A/C)</b>																		
Insulation Class	F						F											
Fan Motor [HP]	1.3						1.9											
Full Load Amps [FLA] @ 208V/3ph/60Hz	-						-											
Full Load Amps [FLA] @ 230V/3ph/60Hz	6.0						6.0											
Full Load Amps [FLA] @ 460V/3ph/60Hz	2.9						2.9											
Full Load Amps [FLA] @ 575V/3ph/60Hz	2.5						2.5											
<b>FAN MOTOR (W/C)</b>																		
Insulation Class	F						F											
Fan Motor [HP], Single Speed	0.13						0.13											
Full Load Amps [FLA] @ 208V/3ph/60Hz	-						-											
Full Load Amps [FLA] @ 230V/3ph/60Hz	1.45						1.45											
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.45						1.45											
Full Load Amps [FLA] @ 575V/3ph/60Hz	1.45						1.45											
<b>TOTAL PACKAGE DATA (A/C)</b>																		
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.							 <b>three-phase star (wye); 4-wire; grounded neutral</b>			 <b>three-phase star (wye); 3-wire; grounded neutral</b>								
Continuous Duty [Hours per day]	24						24											
Control Cabinet Class (NEMA)	12						12											
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	50						50											
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	50						50											
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	-						-											
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	281						317											
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	136						158											
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	116						128											
Recommended Disconnect Fuse Size [Amps] @ 230V/3ph/60Hz	400						450											
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	Dual-element time-delay fuse; based on 2017 NEC 240.6, 430.52, and Tables 430.52, 430.248, and 430.250.						200											
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz							150						175					
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/3ph/60Hz							Based on 2017 NEC 110.14(C), 220.3, 310.15, Table 310.15(B)(2)(a), 310.15(B)(3)(a), 430.6, 430.22, 430.24 and 670.4(A). Use multi-strand copper core wire. Size calculated based on 40°C ambient temperature, with 60°C insulation rated wire if package FLA x 1.25 is less than 100A or 75°C temperature rated wire for 100A and larger.						2 x 3/0 AWG per phase					
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	2 x 3 AWG per phase and ground												2 x 2 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	2/0 AWG per phase and ground												3/0 AWG per phase and ground					
<b>TOTAL PACKAGE DATA (W/C)</b>																		
Package Full Load Amps @ 208V/3ph/60Hz [FLA]	-						-											
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	276						312											
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	135						157											
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	115						127											



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Model	CSD 100						CSD 125					
	110	125	145	175	190	217	110	125	145	175	190	217
<b>INSTALLATION and MAINTENANCE DATA</b>												
A/C with Super Soundproofing [dB(A)]	72						73					
W/C with Super Soundproofing [dB(A)]	71						72					
A/C Air Discharge [inches NPT or Flange]	2 NPT						2 NPT					
W/C Air Discharge [inches NPT or Flange]	2 NPT						2 NPT					
Cooling Water Connection [inches NPT or Flange]	1 1/4 NPT						1 1/4 NPT					
Power Input Conduit Opening(s) [inches]	2 x 2 1/4 & 4 x 1						2 x 2 1/4 & 4 x 1					
Condensate Drain Connection [NPT]	1/4						1/4					
Width [inches]	83						83					
Depth [inches]	50 3/4						50 3/4					
Height [inches]	76 3/4 A/C, 78 1/8 W/C						76 3/4 A/C, 78 1/8 W/C					
Floor Space [sq. ft.]	29 1/4						29 1/4					
Weight (A/C) [lb]	3,836						4,255					
Weight (W/C) [lb]	3,836						4,255					
<b>COMPRESSOR FLUID DATA</b>												
Fluid Capacity (A/C) [gal]	13.7						13.7					
Fluid Capacity (W/C) [gal]	13.2						13.2					
Flow Rate [gal/min]	33.0						33.0					
Typical Oil Consumption [fl. Oz./100 h]	12.3						14.1					
Standard Fluid Type	Sigma M-460						Sigma M-460					
<b>MAINTENANCE PARTS</b>												
Air Inlet Filter	6.4148.1 + 6.4993.0						6.4148.1 + 6.4993.0					
Filter Mat (optional)	6.1945.0 (2x)						6.1945.0 (2x)					
Filter Mat for Control Cabinet	7.4519.0 (2x)						7.4519.0 (2x)					
Fluid Filter	6.4693.0						6.4693.0					
Fluid Separator Kit	6.3623.0						6.3623.0					
Maintenance Kit for Optional 5-year warranty	ANAKCSDX5S						ANAKCSDX5S					
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant	ANAKCSDX5F						ANAKCSDX5F					