

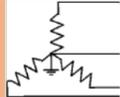
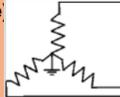


**Installation Data Sheet**  
**Series: 1:1 Direct Drive CSDX.6**  
**Document No.: TI-DATA-2023-CSD 145 175**  
**Preliminary Data Release Date: 05/30/2023**  
**Version 1.1**

Model	CSD 145					CSD 175									
	100	110	125	150	175	100	110	125	150	175	217				
<b>Rated Pressure [psig]</b>															
<b>I. COOLING DATA</b>															
Cooling System Available [Std., Opt.]	AC / WC					AC / WC									
Standard Ambient Temp. Range [°F]	40-115					40-115									
<b>VENTILATION OF COMPRESSOR ROOM</b>															
Air Inlet Opening [sq. ft. free area] (A/C) Z	19.4					23.7									
Air Inlet Opening [sq. ft. free area] (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)	7,063					8,240									
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]	39 x 39					39 x 39									
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.															
<b>Model shown for reference only</b> <b>Actual Duct size may vary with installation</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><b>Solution A Exhaust Fan</b></td> <td rowspan="3" style="text-align: center; vertical-align: middle;"><i>Coming Soon</i></td> </tr> <tr> <td><b>Solution B Exhaust Duct</b></td> </tr> <tr> <td><b>Ventilation of Compressor Room Z</b></td> </tr> </table>												<b>Solution A Exhaust Fan</b>	<i>Coming Soon</i>	<b>Solution B Exhaust Duct</b>	<b>Ventilation of Compressor Room Z</b>
<b>Solution A Exhaust Fan</b>	<i>Coming Soon</i>														
<b>Solution B Exhaust Duct</b>															
<b>Ventilation of Compressor Room Z</b>															
<b>AIR COOLED DATA</b>															
Internal Cooling Fan Capacity [CFM]	7,063					8,240									
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.														
	14.4	12.6	10.8			18	14.4	12.6	10.8	9					
Typical Heat Rejected [BTU / HR]	313,500					372,500									
Fan Motor [HP]	4.0					4.0									
<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.														
	1.8					1.8									
Typical Heat Rejected into Cooling Water [BTU / HR]	301,000					358,500									
Heat Rejected into Cooling Air [BTU / HR]	TBD					TBD									
Max. outlet temperature [°F]	Discharge temperature limited for non-treated water (to prevent calcification).														
	TBD					TBD									
Temperature differential between inlet water and max. discharge water temperature [°F]	TBD		TBD			TBD		TBD							
Max. inlet water temperature [°F]	TBD		TBD			TBD		TBD							
Min. cooling water flow [gpm]	TBD		TBD			TBD		TBD							
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	TBD		TBD			TBD		TBD							
Pressure drop across compressor package [psi] WITH cooling water throttling valve	TBD		TBD			TBD		TBD							



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<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	460/3/60					460/3/60					
Full Load Amps [FLA] @ 230V/3ph/60Hz	235					N/A					
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]	4.0					4.0					
Full Load Amps [FLA] @ 230V/3ph/60Hz	TBD					N/A					
Full Load Amps [FLA] @ 460V/3ph/60Hz	TBD					TBD					
Full Load Amps [FLA] @ 575V/3ph/60Hz	TBD					TBD					
<b>FAN MOTOR (W/C)</b>											
Insulation Class	F					F					
Fan Motor [HP], Single Speed	0.13					0.13					
Full Load Amps [FLA] @ 230V/3ph/60Hz	1.45					N/A					
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.45					1.45					
Full Load Amps [FLA] @ 575V/3ph/60Hz	CF					CF					
<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	Field installed fuse required, see below*					50					
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	Field installed fuse required, see below*					50					
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	289					N/A					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	140					165					
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	119					133					
Recommended Disconnect Fuse Size [Amps] @ 230V/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					400					
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz						200					
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz						175					
Recommended Disconnect Wire Size [AWG/kcmil] @ 230V/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.					2 x 4/0 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz						4/0 AWG per phase and ground					
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz						2/0 AWG per phase and ground					
						2 x 1/0 AWG per phase and ground					
						3/0 AWG per phase and ground					
<b>TOTAL PACKAGE DATA (W/C)</b>											
Package Full Load Amps @ 230V/3ph/60Hz [FLA]	281					N/A					
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	137					162					
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	117					131					



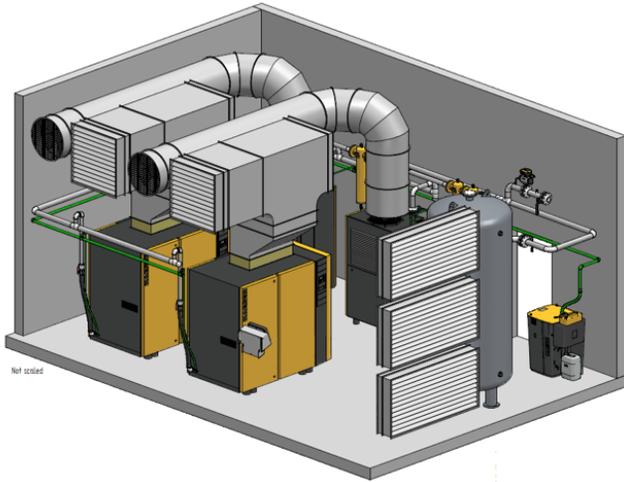
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<b>INSTALLATION and MAINTENANCE DATA</b>												
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]					72					76	
W/C with Super Soundproofing [dB(A)]						72					76	
A/C Air Discharge [inches NPT or Flange]						2 NPT						
W/C Air Discharge [inches NPT or Flange]						2 NPT						
Cooling Water Connection [inches NPT or Flange]						1-1/4 NPT						
Power Input Conduit Opening(s) [inches]						2-1/4 NPT						
Condensate Drain Connection [NPT]						1/4 NPT						
Width [inches]						82.75						
Depth [inches]						50.5						
Height [inches]						76.75						
Floor Space [sq. ft.]						29						
Weight (A/C) [lb]	Weight may vary based on airend selected.					4,167					4,475	
Weight (W/C) [lb]						4,167					4,475	
<b>COMPRESSOR FLUID DATA</b>												
Fluid Capacity (A/C) [gal]						14.5					14.5	
Fluid Capacity (W/C) [gal]						13.2					13.2	
Flow Rate [gal/min]						34.3					34.3	
Typical Oil Consumption [fl. Oz./100 h]						14.8					17.5	
Standard Fluid Type						S-460					S-460	
<b>MAINTENANCE PARTS</b>												
Air Inlet Filter						4E0302.0						
Filter Mat (optional)						6.1945.0						
Filter Mat for Control Cabinet						7.4519.0 (x2)						
Fluid Filter						6.4693.0						
Fluid Separator Kit						6.3623.0						
Maintenance Kit for Optional 5-year warranty						ANAKCSDX6S						
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant						ANAKCSDX6F						

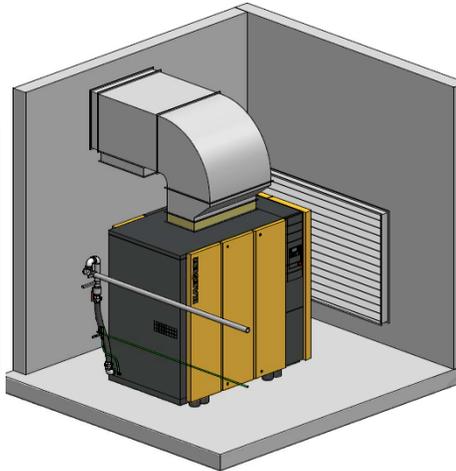
Model	CSD 145					CSD 175					
	Rated Pressure [psig]						100	110	125	150	175

**SAMPLE SKETCHES**

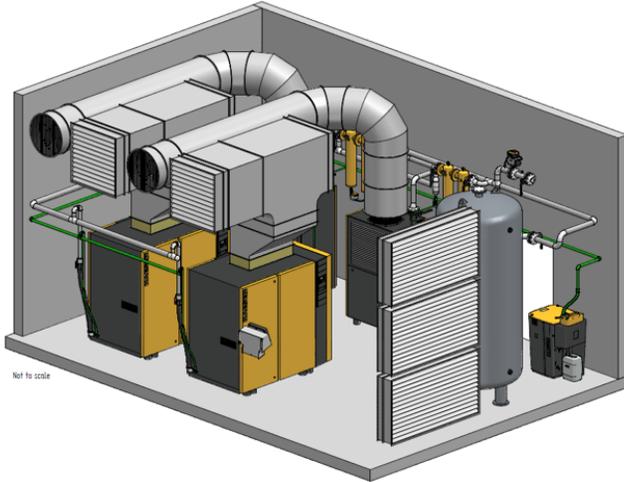
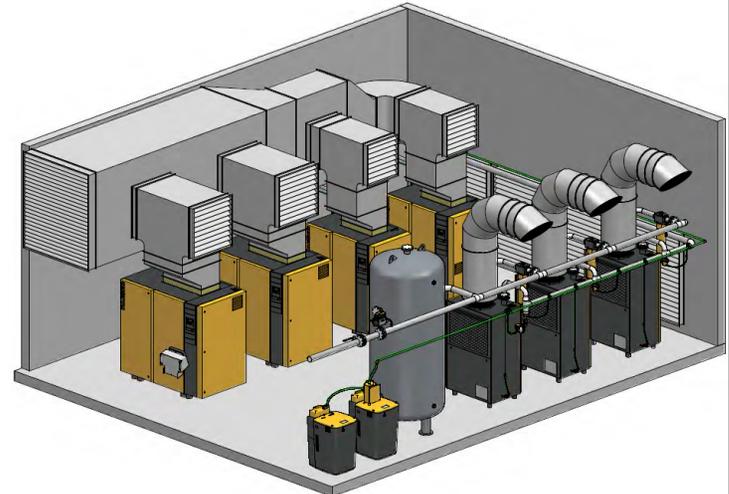
**Sample Installation Planning**  
**Examples of room ventilation and ductwork**  
 Please note the upsizing required for compressor exhaust ducts



2x CSDX 125 / 2x TF 174 / 2x FFG-185D



Duct / Pipe connection CSDX.6



2x CSDX 125 / 2x TF 340 / 2x FFG-185D

**Example designs only, not for construction purposes.**