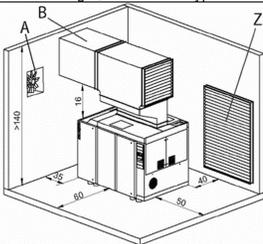


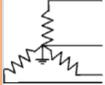
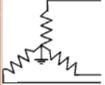


**Installation Data Sheet**  
 Series: Direct Drive DSDX.3 60Hz  
 Document No.: TI-DATA-2016 DSD 200 250  
 Version: 2.5  
 Revision Date: 04/17/2023

Model	DSD 200					DSD 250					
	110	125	145	175	217	110	125	145	175	217	
<b>Rated Pressure [psig]</b>											
<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. free area] (A/C) Z	34.4					40					
Air Inlet Opening [sq. ft. free area] (W/C) Z	5.4					6.5					
<b>Solution A (forced ventilation with exhaust fan) as shown in service manual</b>											
Cooling Fan Capacity [CFM] (A/C)	26,486					32,372					
Cooling Fan Capacity [CFM] (W/C)	4,120					5,003					
<b>Solution B (exhaust air used for space heating) as shown in service manual</b>											
Internal Cooling Fan Capacity [CFM] (A/C)	12,949					12,949					
Internal Cooling Fan Capacity [CFM] (W/C)	2,943					2,943					
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C)   (W/C)	0.40 / 0.24					0.32 / 0.24					
Exhaust Air Opening Reference Dimensions (L x W) [in]	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. 58 x 58					58 x 58					
<p align="center"><b>Model shown for reference only</b>  <b>Actual Duct size may vary with installation</b></p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid green; padding: 5px; width: 25%;">Solution A Exhaust Fan</div> <div style="border: 1px solid red; padding: 5px; width: 25%;">Solution B Exhaust Duct</div> <div style="border: 1px solid blue; padding: 5px; width: 25%;">Ventilation of Compressor Room Z</div> </div> 											
<b>AIR COOLED DATA</b>											
Internal Cooling Fan Capacity [CFM]	12,949					12,949					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.					12.6	10.8	9	16.2	14.4	12.6
Typical Heat Rejected [BTU / HR]	498,500					595,500					
Fan Motor [HP], oilcooler   aircooler	4 / 1					4 / 1					
<b>WATER COOLED DATA</b>											
Type of heat exchangers	stainless steel, plate-type					stainless steel, plate-type					
Internal Cooling Fan Capacity [CFM]	2,943					2,943					
Approach Temp. [°F]	Reference conditions: 14.5 psia, 30% relative humidity and 68°F inlet air temperature.					1.8					
Typical Heat Rejected into Cooling Water [BTU / HR]	Based on highest input kW of machine.					477,000					
Heat Rejected into Cooling Air [BTU / HR]	30,000					34,000					
Max. outlet temperature [°F]	Discharge temperature limited for non-treated water (to prevent calcification).					132					
Temperature differential between inlet water and max. discharge water temperature [°F]	27		54			27		54			
Max. inlet water temperature [°F]	105		78			105		78			
Min. cooling water flow [gpm]	36.7		18			43.6		22			
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	7.3		3			11.5		3.6			
Pressure drop across compressor package [psi] WITH cooling water throttling valve	11		4			16		5			



**Installation Data Sheet**  
 Series: Direct Drive DSDX.3 60Hz  
 Document No.: TI-DATA-2016 DSD 200 250  
 Version: 2.5  
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Model	DSD 200					DSD 250									
Rated Pressure [psig]	110	125	145	175	217	110	125	145	175	217					
<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	200					250									
Insulation Class	F					F									
Standard Voltage	460V/3ph/60Hz					460V/3ph/60Hz									
Full Load Amps [FLA] @ 460V/3ph/60Hz	230					290									
Full Load Amps [FLA] @ 575V/3ph/60Hz	184					230									
<b>FAN MOTOR (A/C) Oilcooler</b>															
Insulation Class	F					F									
Fan Motor [HP]	4					4									
Full Load Amps [FLA] @ 460V/3ph/60Hz	6					6									
Full Load Amps [FLA] @ 575V/3ph/60Hz	4.5					4.5									
<b>FAN MOTOR (A/C) Aircooler</b>															
Insulation Class	F					F									
Fan Motor [HP]	1					1									
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.76					1.76									
Full Load Amps [FLA] @ 575V/3ph/60Hz	1.41					1.41									
<b>FAN MOTOR (W/C)</b>															
Insulation Class	F					F									
Fan Motor [HP], Single Speed	0.4					0.4									
Full Load Amps [FLA] @ 460V/3ph/60Hz	0.6					0.6									
Full Load Amps [FLA] @ 575V/3ph/60Hz	1.2					1.2									
<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*					30									
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	229					270									
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	183					219									
Recommended Disconnect Fuse Size [Amps] @ 460V/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					300					400				
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	250					300									
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/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 2/0 AWG per phase and ground					2 x 3/0 AWG per phase and ground				
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz						2 x 1/0 AWG per phase and ground					2 x 2/0 AWG per phase and ground				
<b>TOTAL PACKAGE DATA (W/C)</b>															
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	224					265									
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	180					215									



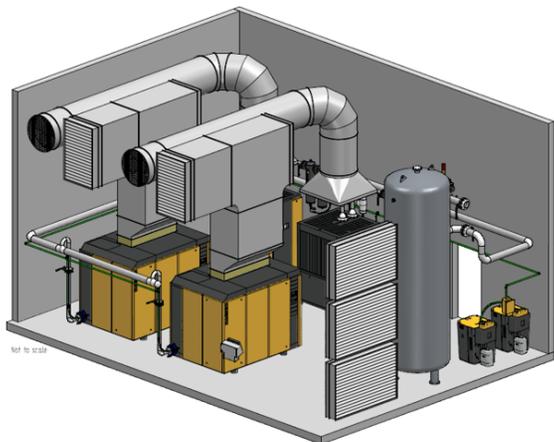
**Installation Data Sheet**  
 Series: Direct Drive DSDX.3 60Hz  
 Document No.: TI-DATA-2016 DSD 200 250  
 Version: 2.5  
 Revision Date: 04/17/2023

Model	DSD 200					DSD 250						
	Rated Pressure [psig]	110	125	145	175	217	110	125	145	175	217	
<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]					75					75	
W/C with Super Soundproofing [dB(A)]						69					70	
A/C Air Discharge [inches NPT or Flange]						3 ASME B16.5 class 150						
W/C Air Discharge [inches NPT or Flange]						3 ASME B16.5 class 150						
Cooling Water Connection [inches NPT or Flange]						1 1/2 ASME B16.5 class 150						
Power Input Conduit Opening(s) [inches]						2 x 3 in					2 x 3 in	
Condensate Drain Connection [NPT]						1/2					1/2	
Width [inches]						105 7/8					105 7/8	
Depth [inches]						75 1/4					75 1/4	
Height [inches]						84 1/4					84 1/4	
Floor Space [sq. ft.]						55 1/2					55 1/4	
Weight (A/C) [lb]						8,735					8,858	
Weight (W/C) [lb]						8,294					8,417	
<b>COMPRESSOR FLUID DATA</b>												
Fluid Capacity (A/C) [gal]						28.3					28.3	
Fluid Capacity (W/C) [gal]						24.6					24.6	
Flow Rate [gal/min]						60.8					60.8	
Typical Oil Consumption [fl. Oz./100 h]						22					26	
Standard Fluid Type						Sigma S-460					Sigma S-460	
<b>MAINTENANCE PARTS</b>												
Air Inlet Filter						4E0304.0						
Filter Mat (optional)						6.1943.00020 (4x)						
Filter Mat for Control Cabinet						7.4519.0 (2x), 7.4519.00040 (2x)						
Fluid Filter						6.4693.0 (2x)						
Fluid Separator Kit						6.4273.0						
Maintenance Kit for Optional 5-year warranty						ANAKDSDX3S						
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant						ANAKDSDX3F						

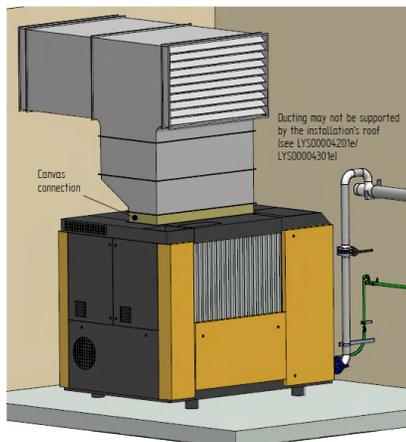
Model	DSD 200					DSD 250				
	110	125	145	175	217	110	125	145	175	217
Rated Pressure [psig]										

**SAMPLE SKETCHES**

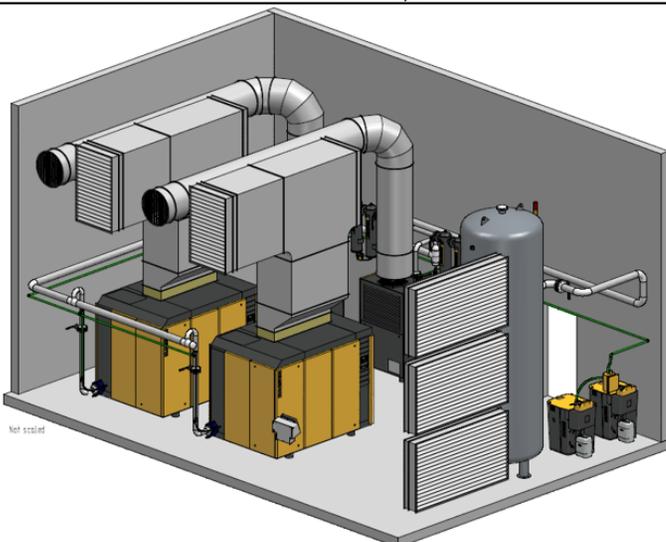
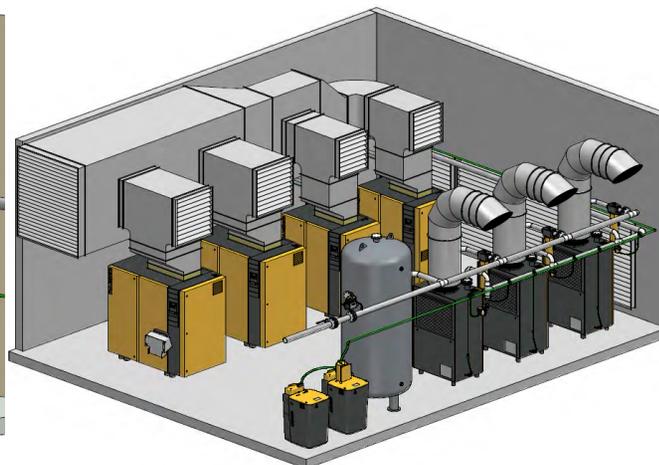
**Sample Installation Planning**  
**Examples of room ventilation and ductwork**  
Please note the upsizing required for compressor exhaust ducts



2x DSD 250 / 2x TI601 / 2x F350 KE,KA



Duct / pipe connection DSDX



2x DSD 250 / 2x TF340 / 2x F350 KE,KA

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