

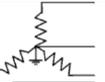
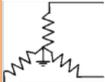


Installation Data Sheet
 Series: 1:1 Direct Drive DSD.3
 Document No.: TI-DATA-2016 DSD 125 150 175
 Version: 2.5
 Revision Date: 04/17/2023

Model	DSD 125			DSD 150			DSD 175					
	110	125	130	110	125	145	175	110	125	145	175	217
Rated Pressure [psig]												
I. COOLING DATA												
Cooling System Available [Std., Opt.]	A/C, W/C			A/C, W/C			A/C, W/C					
Standard Ambient Temp. Range [°F]	40 - 115			40 - 115			40 - 115					
VENTILATION OF COMPRESSOR ROOM												
Air Inlet Opening [sq. ft. free area] (A/C) Z	22.6			29			34.5					
Air Inlet Opening [sq. ft. free area] (W/C) Z	3.2			4.3			5.4					
Solution A (forced ventilation with exhaust fan) as shown in service manual												
Cooling Fan Capacity [CFM] (A/C)	17,657			22,366			26,486					
Cooling Fan Capacity [CFM] (W/C)	2,943			3,532			4,120					
Solution B (exhaust air used for space heating) as shown in service manual												
Internal Cooling Fan Capacity [CFM] (A/C)	7,652			10,006			11,772					
Internal Cooling Fan Capacity [CFM] (W/C)	1,471			1,471			1,471					
Max. Additional Pressure Drop for Ducts [inch Water Column] (A/C) (W/C)	0.40 / 0.16			0.40 / 0.16			0.32 / 0.16					
Exhaust Air Opening Reference Dimensions (L x W) [in]	54 x 54			54 x 54			54 x 54					
<p align="center"> Model shown for reference only Actual Duct size may vary with installation </p> <div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>Solution A Exhaust Fan</p> <hr style="border: 1px solid green;"/> <p>Solution B Exhaust Duct</p> <hr style="border: 1px solid red;"/> <p>Ventilation of Compressor Room Z</p> <hr style="border: 1px solid blue;"/> </div> <div style="flex: 1; text-align: center;"> <p>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.</p> </div> </div>												
AIR COOLED DATA												
Internal Cooling Fan Capacity [CFM]	7,652			10,006			11,772					
Approach Temp. [°F]	12.6			14.4			12.6					
Typical Heat Rejected [BTU / HR]	342,500			404,500			504,000					
Fan Motor [HP], oilcooler aircooler	4 / 1			4 / 1			4 / 1					
WATER COOLED DATA												
Type of heat exchangers	stainless steel, plate-type			stainless steel, plate-type			stainless steel, plate-type					
Internal Cooling Fan Capacity [CFM]	1,471			1,471			1,471					
Approach Temp. [°F]	1.8			1.8			1.8					
Typical Heat Rejected into Cooling Water [BTU / HR]	331,000			387,000			482,000					
Heat Rejected into Cooling Air [BTU / HR]	21,000			24,000			30,000					
Max. outlet temperature [°F]	131			131			131					
Temperature differential between inlet water and max. discharge water temperature [°F]	27			54			27					
Max. inlet water temperature [°F]	105			77			105					
Min. cooling water flow [gpm]	23.8			11.9			29.9					
Pressure drop across compressor package [psi] WITHOUT cooling water throttling valve	4.5			2.9			6					
Pressure drop across compressor package [psi] WITH cooling water throttling valve	7			4			9					



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II. ELECTRICAL DATA												
<i>Electrical data may vary in accordance with motor manufacturer's specifications. Motors are EISA compliant.</i>												
DRIVE MOTOR												
Motor HP	125			150				175				
Insulation Class	F			F				F				
Standard Voltage	460V/3ph/60Hz			460V/3ph/60Hz				460V/3ph/60Hz				
Full Load Amps [FLA] @ 460V/3ph/60Hz	143			177				205				
Full Load Amps [FLA] @ 575V/3ph/60Hz	112			137				165				
FAN MOTOR (A/C) Oilcooler												
Insulation Class	F			F				F				
Fan Motor [HP]	4			4				4				
Full Load Amps [FLA] @ 460V/3ph/60Hz	6.0			6.0				6.0				
Full Load Amps [FLA] @ 575V/3ph/60Hz	4.8			4.8				4.8				
FAN MOTOR (A/C) Aircooler												
Insulation Class	F			F				F				
Fan Motor [HP]	1			1				1				
Full Load Amps [FLA] @ 460V/3ph/60Hz	1.76			1.76				1.76				
Full Load Amps [FLA] @ 575V/3ph/60Hz	1.41			1.41				1.41				
FAN MOTOR (W/C)												
Insulation Class	F			F				F				
Fan Motor [HP], Single Speed	0.4			0.4				0.4				
Full Load Amps [FLA] @ 460V/3ph/60Hz	0.6			0.6				0.6				
Full Load Amps [FLA] @ 575V/3ph/60Hz	1.2			1.2				1.2				
TOTAL PACKAGE DATA (A/C)												
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.				 three-phase star (wye); 4-wire; grounded neutral				 three-phase star (wye); 3-wire; grounded neutral				
Continuous Duty [Hours per day]	24			24				24				
Control Cabinet Class (NEMA)	12			12				12				
Short Circuit Current Rating (SCCR) [kA] @ 460V/3ph/60Hz	50			50				50				
Short Circuit Current Rating (SCCR) [kA] @ 575V/3ph/60Hz	50			50				50				
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	162			191				228				
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	128			149				185				
Recommended Disconnect Fuse Size [Amps] @ 460V/3ph/60Hz	225			250				300				
Recommended Disconnect Fuse Size [Amps] @ 575V/3ph/60Hz	175			200				250				
Recommended Disconnect Wire Size [AWG/kcmil] @ 460V/3ph/60Hz	250 kcmil per phase and ground			2 x 1/0 AWG per phase and ground				2 x 2/0 AWG per phase and ground				
Recommended Disconnect Wire Size [AWG/kcmil] @ 575V/3ph/60Hz	3/0 AWG per phase and ground			4/0 AWG per phase and ground				2 x 1/0 AWG per phase and ground				
TOTAL PACKAGE DATA (W/C)												
Package Full Load Amps @ 460V/3ph/60Hz [FLA]	158			187				224				
Package Full Load Amps @ 575V/3ph/60Hz [FLA]	124			145				181				



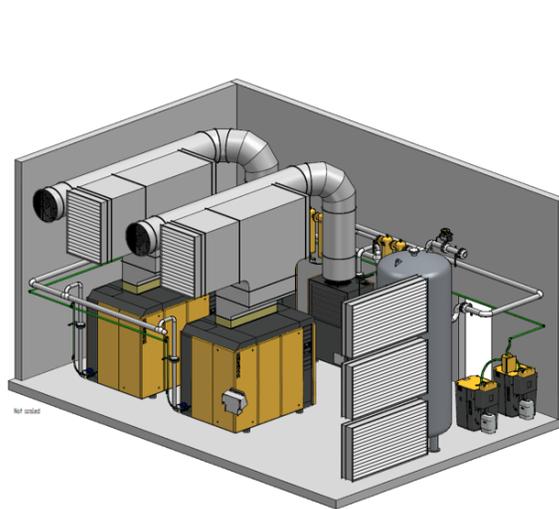
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INSTALLATION and MAINTENANCE DATA												
A/C with Super Soundproofing [dB(A)]	SOUND PRESSURE LEVEL [Measured in dB(A) according to ISO 2151 using ISO 9614-2]			71			73			75		
W/C with Super Soundproofing [dB(A)]	68			69			70					
A/C Air Discharge [inches NPT or Flange]				2 1/2 ASME B16.5 class 150								
W/C Air Discharge [inches NPT or Flange]				2 1/2 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			2 x 3 in					
Condensate Drain Connection [NPT]	1/2			1/2			1/2					
Width [inches]	96 1/2			96 1/2			96 1/2					
Depth [inches]	68 1/8			68 1/8			68 1/8					
Height [inches]	84 1/2			84 1/2			84 1/2					
Floor Space [sq. ft.]	45 2/3			45 2/3			45 2/3					
Weight (A/C) [lb]	6,812			6,834			7,562					
Weight (W/C) [lb]	6,812			6,834			7,562					
COMPRESSOR FLUID DATA												
Fluid Capacity (A/C) [gal]	18.5			18.5			18.5					
Fluid Capacity (W/C) [gal]	15.3			15.3			15.3					
Flow Rate [gal/min]	35.7			35.7			35.7					
Typical Oil Consumption [fl. Oz./100 h]	14.9			17.9			22					
Standard Fluid Type	Sigma S-460			Sigma S-460			Sigma S-460					
MAINTENANCE PARTS												
Air Inlet Filter				4E0303.0								
Filter Mat (optional)				6.1943.00040 (4x)								
Filter Mat for Control Cabinet				7.4519.0 (4x)								
Fluid Filter				6.4493.0 (2x)								
Fluid Separator Kit				6.4272.2								
Maintenance Kit for Optional 5-year warranty				ANAKDSD3S								
Maintenance Kit for Optional 5-year warranty, with food-grade lubricant				ANAKDSD3F								

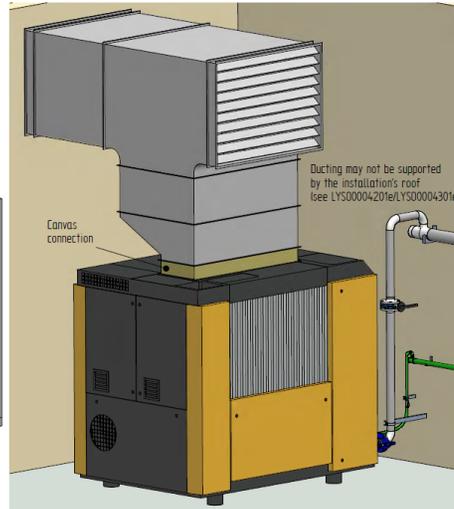
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Rated Pressure [psig]													

SAMPLE SKETCHES

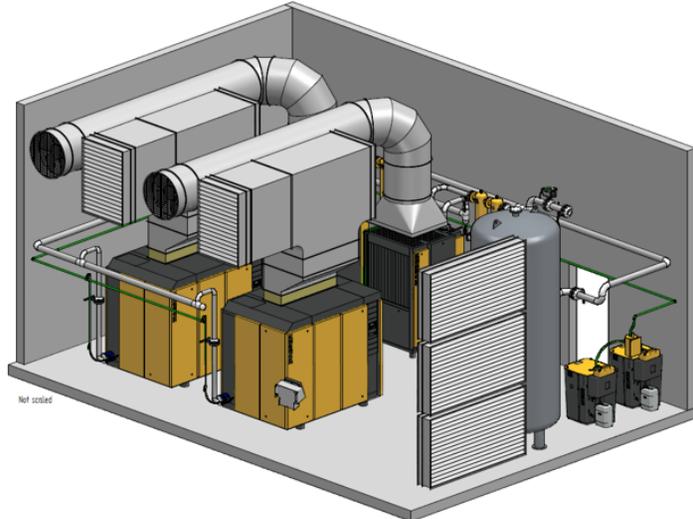
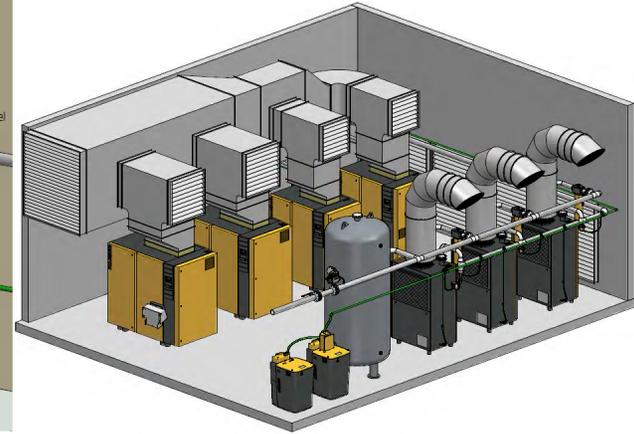
Sample Installation Planning
Examples of room ventilation and ductwork
Please note the upsizing required for compressor exhaust ducts



2x DSD 175 / 2x TF280 / 2x FFG-283D



Duct / pipe connection DSD



2x DSD 175 / 2x TH 451 / 2x FFG-283D

Example designs only, not for construction purposes.