



# GDK132 FS

50Hz

CCN: 47782778001  
 Rev: A  
 ECN: 1467100  
 Sheet: 5 of 8  
 Date: Jul-2022

Model		GDK132FS-7A	GDK132FS-8A	GDK132FS-10A	GDK132FS-12.5A
<b>GENERAL PERFORMANCE DATA</b>					
Rated discharge Pressure		7.0 barg	8.0	10.0	12.5
Maximum Operating Pressure	(2)	7.2 barg	8.2	10.2	12.7
Minimum Operating Pressure		4.5 barg	4.5	4.5	4.5
Maximum Operating Ambient Temperature		46 °C	46	46	46
Minimum Operating Ambient Temperature		2 °C	2	2	2
Maximum System Temperature Setting		109 °C	109	109	109
Nominal Power – Main Motor	(3)	132 kW	132	132	132
Main Motor Efficiency	(1)	95.4%	95.4%	95.4%	95.4%
Capacity FAD	(1)	m³/min	25.5	21.8	17.7
Package Input Power with Fan – Air Cooled	(4)	kW	153.0	156.8	141.6
Specific Power – Air Cooled	(4)(5)	kW/m³/min	6.0	6.4	8.0
<b>SOUND LEVEL</b>					
Noise Level Standard Package – Air Cooled	(6)	Sound Pressure - dB(A)	76	76	76
Noise Level Standard Package – Air Cooled		Sound Power - dB(A)	94	94	94
OIL CARRY OVER		mg/m³	≤3	≤3	≤3
<b>COOLING DATA (• Maximum Ambient Temperature &amp; Maximum Discharge Pressure)</b>					
Heat Removal (Oil Cooler)		kW	125.3	125.3	125.3
Heat Removal (Oil and Aftercooler)		kW	157.7	157.7	157.7
Permitted Additional Static Pressure		Pa	30	30	30
Fan Air Flow		m³/min	466.0	466.0	466.0
Fan Motor Nominal Power		kW	3.9	3.9	3.9
Cooling Air Temperature Rise@46°C		°C	29	29	29
Aftercooler CTD	(7)	°C	12	12	12
<b>AIR END DATA</b>					
Main Rotor Speed		RPM	2435	2346	2103
Tip Speed Rotor		m/sec	29.3	28.2	25.3
Full Load Shaft Power		kW	142.6	143.9	142.6
<b>COOLANT LUBRICATION DATA</b>					
Total Coolant Capacity – Air Cooled	(12)	litres	94.0	94.0	94.0
<b>PIPING CONNECTIONS</b>					
Air Discharge	(8)	Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain – Hose Size		Inches NPT	0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		mm (Inches)	120 (4.7)	120 (4.7)	120 (4.7)
<b>DIMENSIONS AND WEIGHT</b>					
Length, Width, Height		mm	2300*1500*1700	2300*1500*1700	2300*1500*1700
Net Weight – Air Cooled		kg	2880	2880	2880
GA Drawing Number – Air Cooled			47783077001	47783077001	47783077001
<b>ELECTRICAL DATA</b>					
Motor Protection	(13)			TEFC, IP55	
Motor Number of Poles				2	
Motor Insulation Class / Temperature Rise				Class F, 155°C	
Full Load Package Current – Air Cooled	(9)				
		Amps @ 380V		295	
		Amps @ 400V		280	
		Amps @ 415V		270	
Main Motor Locked Rotor Current	(14)				
		Amps @ 380V		2950	
		Amps @ 400V		3083	
		Amps @ 415V		3189	
Package Power Factor				0.91	
<b>Electrical Installation</b>					
Recommended Supply Cable Size	(10)				
		mm²/Cu (Kcmil) @ 380V		185	
		mm²/Cu (Kcmil) @ 400V		185	
		mm²/Cu (Kcmil) @ 415V		185	
Maximum Recommended Fuse Rating	(10)(11)				
		Amps @ 380V		500	
		Amps @ 400V		500	
		Amps @ 415V		500	

## Notes:

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
- Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure
- IE3 efficiency motor
- Measured at rated capacity and rated pressure
- Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C
- Measured in free field conditions per ISO 2151 using Parallelepiped Method; ducted inlet and outlet, with + 3 dB(A) tolerance
- CTD based on 100°F/38°C inlet air at 40% Relative Humidity (For alternate conditions contact Gardner Denver)
- 'G' Thread for domestic standard
- Maximum current includes 5% additional current due to fouled filters and elements
- 90°C Copper cables. Always apply local electrical codes for sizing cables and system protection
- Time delay fuse recommended. Apply local electrical codes for fuse sizing
- Coolant volumes listed are approximate. See operator manual for coolant fill procedure
- 50Hz (±2%) motor voltage tolerance: (400V)±10%
- Star-Delta starting current inrush is about 33% of direct starting current
- During the Star-Delta open-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values

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# GDK132 FS

50Hz

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 Sheet: 6 of 8  
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Model			GDK132FS-7W	GDK132FS-8W	GDK132FS-10W	GDK132FS-12.5W
GENERAL PERFORMANCE DATA						
Rated discharge Pressure		barg	7.0	8.0	10.0	12.5
Maximum Operating Pressure	(2)	barg	7.2	8.2	10.2	12.7
Minimum Operating Pressure		barg	4.5	4.5	4.5	4.5
Maximum Operating Ambient Temperature		°C	46	46	46	46
Minimum Operating Ambient Temperature		°C	2	2	2	2
Maximum System Temperature Setting		°C	109	109	109	109
Nominal Power - Main Motor		kW	132	132	132	132
Main Motor Efficiency	(3)	%	95.4%	95.4%	95.4%	95.4%
Capacity FAD	(1)	m³/min	25.5	24.5	21.8	17.7
Package Input Power with Fan - Water Cooled	(4)	kW	150.5	151.9	150.4	138.1
Specific Power - Water Cooled	(4)(5)	kW/m³/min	5.9	6.2	6.9	7.8
SOUND LEVEL						
Noise Level Standard Package - Water Cooled	(6)	Sound Pressure - dB(A)	73	73	73	73
Noise Level Standard Package - Water Cooled		Sound Power - dB(A)	91	91	91	91
OIL CARRY OVER						
		mg/m³	≤3	≤3	≤3	≤3
COOLING DATA (• Maximum Ambient Temperature & Maximum Discharge Pressure)						
Heat Removal (Oil Cooler)		kW	125.3	125.3	125.3	125.3
Heat Removal (Oil and Aftercooler)		kW	157.7	157.7	157.7	157.7
Permitted Additional Static Pressure		Pa	30	30	30	30
Fan Air Flow		m³/min	80.0	80.0	80.0	80.0
Fan Motor Nominal Power		kW	0.5	0.5	0.5	0.5
Cooling Air Temperature Rise@46°C		°C	12	12	12	12
Cooling Water Temperature Rise@38°C		°C	13	13	13	13
Cooling Water Flow		m3/h				
@10°C			6	6	6	6
@20°C			7	7	7	7
@30°C			9	9	9	9
@38°C	(7)		13	13	13	13
Cooling Water Max Pressure		bar	4	4	4	4
Cooling Water Min Pressure		bar	2	2	2	2
Cooling Water Pressure Drop		bar	1	1	1	1
Aftercooler CTD		°C	12	12	12	12
AIR END DATA						
Male Rotor Speed		RPM	2435	2346	2103	1740
Tip Speed Rotor		m/sec	29.3	28.2	25.3	20.9
Full Load Shaft Power		kW	142.6	143.9	142.6	132.0
COOLANT LUBRICATION DATA						
Total Coolant Capacity - Water Cooled	(12)	litres	104	104	104	104
PIPING CONNECTIONS						
Air Discharge	(8)	Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain - Hose Size		Inches NPT	0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		mm (Inches)	120 (4.7)	120 (4.7)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT						
Length, Width, Height		mm	2300*1500*1700	2300*1500*1700	2300*1500*1700	2300*1500*1700
Net Weight - Water Cooled		kg	2835	2835	2835	2835
GA Drawing Number - Water Cooled			47783078001	47783078001	47783078001	47783078001
ELECTRICAL DATA						
Motor Protection	(13)			TEFC IP55		
Motor Number of Poles				2		
Motor Insulation Class / Temperature Rise				Class F, 155°C		
Full Load Package Current - Water Cooled	(9)					
		Amps @ 380V		290		
		Amps @ 400V		276		
		Amps @ 415V		266		
Main Motor Locked Rotor Current	(14)					
		Amps @ 380V		2900		
		Amps @ 400V		3031		
		Amps @ 415V		3135		
Package Power Factor				0.91		
Electrical Installation						
Recommended Supply Cable Size	(10)					
		mm²/Cu (Kcmil) @ 380V		185		
		mm²/Cu (Kcmil) @ 400V		185		
		mm²/Cu (Kcmil) @ 415V		185		
Maximum Recommended Fuse Rating	(10)(11)					
		Amps @ 380V		500		
		Amps @ 400V		500		
		Amps @ 415V		500		

## Notes:

- FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C
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