

GDK90 HPM
50Hz

CCN: 47779295001
Rev: D
ECN: 1489453
Sheet: 1 of 8
Date: 2023.07

Model		GDK90-7A	GDK90-8A	GDK90-10A
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0	8.0	10.0
Maximum Operating Pressure	(2)	7.2	8.2	10.2
Minimum Operating Pressure		4.5	4.5	4.5
Maximum Operating Ambient Temperature		46	46	46
Minimum Operating Ambient Temperature		2	2	2
Maximum System Temperature Setting		109	109	109
Nominal Power - Main Motor		90	90	90
Main Motor Efficiency	(3)	96.6%	96.6%	96.6%
Main Inverter Drive Efficiency		96%	96%	96%
Capacity FAD@Max Speed	(1)	18.3	17.0	15.2
Capacity FAD@Min Speed		6.1	6.1	6.1
Package Input Power with Fan - Air Cooled	(4)	108.0	107.1	109.4
Specific Power - Air Cooled	(4)(5)	6.0	6.3	7.2
SOUND LEVEL				
Noise Level Standard Package - Air Cooled	(6)	75	75	75
Noise Level Standard Package - Air Cooled		93	93	93
OIL CARRY OVER		≤3	≤3	≤3
COOLING DATA (at Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		103.0	103.0	103.0
Heat Removal (Oil and Aftercooler)		128.4	128.4	128.4
Permitted Additional Static Pressure		30	30	30
Fan Air Flow		434.0	434.0	434.0
Fan Motor Nominal Power		2.3	2.3	2.3
Cooling Air Temperature Rise@46°C		29	29	29
Aftercooler CTD	(7)	12	12	12
AIR END DATA				
Male Rotor Speed		2870	2734	2454
Tip Speed Rotor		29.2	27.7	24.9
Full Load Shaft Power		100.3	100.4	99.3
COOLANT LUBRICATION DATA				
Total Coolant Capacity - Air Cooled	(12)	87.0	87.0	87.0
PIPING CONNECTIONS				
Air Discharge	(8)	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain - Hose Size		0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		120 (4.7)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		2300*1500*1700	2300*1500*1700	2300*1500*1700
Net Weight - Air Cooled		1720	1720	1720
GA Drawing Number - Air Cooled		47775688001	47775688001	47775688001
ELECTRICAL DATA				
Motor Protection	(13)		TEOC, IP66	
Motor Number of Poles			8	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current - Air Cooled	(9)	Amps @ 380V	178	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)	mm ² /Cu (Kcmil) @ 380V	150	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	325	

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 Hemispherical 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 Ingersoll Rand)
- "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: (380V)±7% ;

Model		GDK90-7W	GDK90-8W	GDK90-10W	
GENERAL PERFORMANCE DATA					
Rated discharge Pressure		barg	7.0	8.0	10.0
Maximum Operating Pressure	(2)	barg	7.2	8.2	10.2
Minimum Operating Pressure		barg	4.5	4.5	4.5
Maximum Operating Ambient Temperature		°C	46	46	46
Minimum Operating Ambient Temperature		°C	2	2	2
Maximum System Temperature Setting		°C	109	109	109
Nominal Power - Main Motor		kW	90	90	90
Main Motor Efficiency	(3)	%	96.6%	96.6%	96.6%
Main Inverter Drive Efficiency		%	96%	96%	96%
Capacity FAD@Max Speed	(1)	m ³ /min	18.3	17.0	15.2
Capacity FAD@Min Speed		m ³ /min	6.1	6.1	6.1
Package Input Power with Fan - Water Cooled	(4)	kW	106.2	107.1	107.9
Specific Power - Air Cooled	(4)(5)	kW/m ³ /min	5.9	6.3	7.1
SOUND LEVEL					
Noise Level Standard Package - Water Cooled	(6)	Sound Pressure - dB(A)	74	74	74
Noise Level Standard Package - Water Cooled		Sound Power - dB(A)	92	92	92
OIL CARRY OVER		mg/m ³	≤3	≤3	≤3
COOLING DATA (0 Maximum Ambient Temperature & Maximum Discharge Pressure)					
Heat Removal (Oil Cooler)		kW	103.0	103.0	103.0
Heat Removal (Oil and Aftercooler)		kW	128.4	128.4	128.4
Permitted Additional Static Pressure		Pa	30	30	30
Fan Air Flow		m ³ /min	80.0	80.0	80.0
Fan Motor Nominal Power		kW	0.5	0.5	0.5
Cooling Air Temperature Rise@46°C		°C	10	10	10
Cooling Water Temperature Rise@38°C		°C	13	13	13
Cooling Water Flow		m ³ /h			
@ 10 °C			4	4	4
@ 20 °C			5	5	5
@ 30 °C			7	7	7
@ 38 °C			9	9	9
Cooling Water Max Pressure		Bar	4	4	4
Cooling Water Min Pressure		Bar	2	2	2
Cooling Water Pressure Drop		Bar	1	1	1
Aftercooler CTD	(7)	°C	12	12	12
AIR END DATA					
Main Rotor Speed		RPM	2870	2734	2454
Tip Speed Rotor		m/sec	29.2	27.7	24.9
Full Load Shaft Power		kW	100.3	100.4	99.3
COOLANT LUBRICATION DATA					
Total Coolant Capacity - Water Cooled	(12)	litres	83.0	83.0	83.0
PIPING CONNECTIONS					
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)
DIMENSIONS AND WEIGHT					
Length, Width, Height		mm	2300*1500*1700	2300*1500*1700	2300*1500*1700
Net Weight - Water Cooled		kg	1720	1720	1720
GA Drawing Number - Water Cooled			47775688001	47775688001	47775688001
ELECTRICAL DATA					
Motor Protection	(13)			TEOC, IP66	
Motor Number of Poles				8	
Motor Insulation Class / Temperature Rise				Class H, 180°C	
Full Load Package Current - Water Cooled	(9)	Amps @ 380V		173	
Package Power Factor				0.92	
Electrical Installation					
Recommended Supply Cable Size	(10)	mm ² /Cu (Kcmil) @ 380V		150	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V		325	

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 Hemispherical 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 Ingersoll Rand)
- '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: (380V)±7% ;

GDK110 HPM
50Hz

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Model		GDK110-7A	GDK110-8A	GDK110-10A
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0 barg	8.0	10.0
Maximum Operating Pressure	(2)	7.2 barg	8.2	10.2
Minimum Operating Pressure		4.5 barg	4.5	4.5
Maximum Operating Ambient Temperature		46 °C	46	46
Minimum Operating Ambient Temperature		2 °C	2	2
Maximum System Temperature Setting		109 °C	109	109
Nominal Power – Main Motor		110 kW	110	110
Main Motor Efficiency	(3)	96.8%	96.8%	96.8%
Main Inverter Drive Efficiency		97%	97%	97%
Capacity FAD@Max Speed	(1)	m³/min	21.8	20.5
Capacity FAD@Min Speed		m³/min	7.5	7.5
Package Input Power with Fan – Air Cooled	(4)	kW	126.9	129.2
Specific Power – Air Cooled	(4)(5)	kW/m³/min	5.9	6.3
SOUND LEVEL (6)				
Noise Level Standard Package – Air Cooled		Sound Pressure - dB(A)	75	75
Noise Level Standard Package – Air Cooled		Sound Power - dB(A)	93	93
OIL CARRY OVER		mg/m³	≤3	≤3
COOLING DATA (8 Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		kW	103.0	103.0
Heat Removal (Oil and Aftercooler)		kW	128.4	128.4
Permitted Additional Static Pressure		Pa	30	30
Fan Air Flow		m³/min	434.0	434.0
Fan Motor Nominal Power		kW	2.3	2.3
Cooling Air Temperature Rise@46°C		°C	29	29
Aftercooler CTD	(7)	°C	12	12
AIR END DATA				
Male Rotor Speed		RPM	3425	3286
Tip Speed Rotor		m/sec	34.8	33.4
Full Load Shaft Power		kW	121.5	122.4
COOLANT LUBRICATION DATA (12)				
Total Coolant Capacity – Air Cooled		litres	87.0	87.0
PIPING CONNECTIONS (8)				
Air Discharge		Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain – Hose Size		Inches NPT	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		mm (Inches)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		mm	2300*1500*1700	2300*1500*1700
Net Weight – Air Cooled		kg	1720	1720
GA Drawing Number – Air Cooled			47775688001	47775688001
ELECTRICAL DATA (13)				
Motor Protection			TEOC, IP66	
Motor Number of Poles			8	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current – Air Cooled	(9)	Amps @ 380V	224	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)	mm²/Cu (Kcmil) @ 380V	185	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	400	

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 Hemispherical 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 Ingersoll Rand)
- '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: (380V)±7% ;

Model		GDK110-7W	GDK110-8W	GDK110-10W
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0 barg	8.0	10.0
Maximum Operating Pressure	(2)	7.2 barg	8.2	10.2
Minimum Operating Pressure		4.5 barg	4.5	4.5
Maximum Operating Ambient Temperature		46 °C	46	46
Minimum Operating Ambient Temperature		2 °C	2	2
Maximum System Temperature Setting		109 °C	109	109
Nominal Power - Main Motor		90 kW	90	90
Main Motor Efficiency	(3)	96.8%	96.8%	96.8%
Main Inverter Drive Efficiency		97%	97%	97%
Capacity FAD@Max Speed	(1)	21.8 m³/min	20.5	18.6
Capacity FAD@Min Speed		7.5 m³/min	7.5	7.5
Package Input Power with Fan - Water Cooled	(4)	124.7 kW	127.1	133.9
Specific Power - Air Cooled	(4)(5)	5.8 kW/m³/min	6.2	7.2
SOUND LEVEL (6)				
Noise Level Standard Package - Water Cooled		Sound Pressure - dB(A)	74	74
Noise Level Standard Package - Water Cooled		Sound Power - dB(A)	92	92
OIL CARRY OVER		mg/m³	≤3	≤3
COOLING DATA (# Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		kW	103.0	103.0
Heat Removal (Oil and Aftercooler)		kW	128.4	128.4
Permitted Additional Static Pressure		Pa	30	30
Fan Air Flow		m³/min	80.0	80.0
Fan Motor Nominal Power		kW	0.5	0.5
Cooling Air Temperature Rise@46°C		°C	10	10
Cooling Water Temperature Rise@38°C		°C	13	13
Cooling Water Flow		m³/h		
@ 10 °C		4	4	4
@ 20 °C		5	5	5
@ 30 °C		7	7	7
@ 38 °C		9	9	9
Cooling Water Max Pressure		Bar	4	4
Cooling Water Min Pressure		Bar	2	2
Cooling Water Pressure Drop		Bar	1	1
Aftercooler CTD	(7)	°C	12	12
AIR END DATA				
Male Rotor Speed		RPM	3425	3286
Tip Speed Rotor		m/sec	34.8	33.4
Full Load Shaft Power		kW	121.5	121.2
COOLANT LUBRICATION DATA (12)				
Total Coolant Capacity - Water Cooled		litres	83.0	83.0
PIPING CONNECTIONS (8)				
Air Discharge		Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain - Hose Size		Inches NPT	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		mm (Inches)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		mm	2300*1500*1700	2300*1500*1700
Net Weight - Water Cooled		kg	1720	1720
GA Drawing Number - Water Cooled			47775688001	47775688001
ELECTRICAL DATA (13)				
Motor Protection			TEOC, IP66	
Motor Number of Poles			8	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current - Water Cooled	(9)	Amps @ 380V	219	
Package Power Factor			0.92	
Electrical Installation (10)				
Recommended Supply Cable Size		mm²Cu (Kcmil) @ 380V	185	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	400	
Notes:				
1.	FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C			
2.	Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure			
3.	IE3 efficiency motor			
4.	Measured at rated capacity and rated pressure			
5.	Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C			
6.	Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance			
7.	CTD based on 100°F/38°C inlet air at 40% Relative Humidity (For alternate conditions contact Ingersoll Rand)			
8.	'G' Thread for domestic standard			
9.	Maximum current includes 5% additional current due to fouled filters and elements			
10.	90°C copper cables. Always apply local electrical codes for sizing cables and system protection			
11.	Time delay fuse recommended. Apply local electrical codes for fuse sizing			
12.	Coolant volumes listed are approximate. See operator manual for coolant fill procedure			
13.	50Hz (±2%) motor voltage tolerance: (380V)±7% ;			

GDK132 HPM
50Hz

CCN: 47779295001
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Model		GDK132-7A	GDK132-8A	GDK132-10A
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0 barg	8.0 barg	10.0 barg
Maximum Operating Pressure	(2)	7.2 barg	8.2 barg	10.2 barg
Minimum Operating Pressure		4.5 barg	4.5 barg	4.5 barg
Maximum Operating Ambient Temperature		46 °C	46 °C	46 °C
Minimum Operating Ambient Temperature		2 °C	2 °C	2 °C
Maximum System Temperature Setting		109 °C	109 °C	109 °C
Nominal Power – Main Motor		132 kW	132 kW	132 kW
Main Motor Efficiency	(3)	96.9%	96.9%	96.9%
Main Inverter Drive Efficiency		97%	97%	97%
Capacity FAD@Max Speed	(1)	25.5 m³/min	24.0 m³/min	22.0 m³/min
Capacity FAD@Min Speed		8.9 m³/min	8.9 m³/min	8.9 m³/min
Package Input Power with Fan – Air Cooled	(4)	147.5 kW	151.2 kW	156.2 kW
Specific Power – Air Cooled	(4)(5)	5.9 kW/m³/min	6.3 kW/m³/min	7.1 kW/m³/min
SOUND LEVEL				
Noise Level Standard Package – Air Cooled	(6)	75 Sound Pressure - dB(A)	75 Sound Pressure - dB(A)	75 Sound Pressure - dB(A)
Noise Level Standard Package – Air Cooled		93 Sound Power - dB(A)	93 Sound Power - dB(A)	93 Sound Power - dB(A)
OIL CARRY OVER		≤3 ma/m³	≤3 ma/m³	≤3 ma/m³
COOLING DATA (Ø Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		125.3 kW	125.3 kW	125.3 kW
Heat Removal (Oil and Aftercooler)		157.7 kW	157.7 kW	157.7 kW
Permitted Additional Static Pressure		30 Pa	30 Pa	30 Pa
Fan Air Flow		466.0 m³/min	466.0 m³/min	466.0 m³/min
Fan Motor Nominal Power		3.9 kW	3.9 kW	3.9 kW
Cooling Air Temperature Rise@46°C		29 °C	29 °C	29 °C
Aftercooler CTD	(7)	12 °C	12 °C	12 °C
AIR END DATA				
Main Rotor Speed		3990 RPM	3837 RPM	3470 RPM
Tip Speed Rotor		40.5 m/sec	38.9 m/sec	35.2 m/sec
Full Load Shaft Power		145.3 kW	144.7 kW	145.1 kW
COOLANT LUBRICATION DATA				
Total Coolant Capacity – Air Cooled	(12)	94.0 litres	94.0 litres	94.0 litres
PIPING CONNECTIONS				
Air Discharge	(8)	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain – Hose Size		0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		120 (4.7)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		2300*1500*1700 mm	2300*1500*1700 mm	2300*1500*1700 mm
Net Weight – Air Cooled		1850 kg	1850 kg	1850 kg
GA Drawing Number – Air Cooled		47775688001	47775688001	47775688001
ELECTRICAL DATA				
Motor Protection	(13)		TEOC, IP66	
Motor Number of Poles			8	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current – Air Cooled	(9)		259 Amps @ 380V	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)		185 mm²/Cu (Kcmil) @ 380V	
Maximum Recommended Fuse Rating	(10)(11)		500 Amps @ 380V	

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 Hemispherical 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 Ingersoll Rand)
- '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: (380V)±7% ;

Product Improvement is a continuing goal at Gardner Denver. Design and specifications are subject to change without notice or obligation.

Model		GDK132-7W	GDK132-6W	GDK132-10W
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0	8.0	10.0
Maximum Operating Pressure	(2)	7.2	8.2	10.2
Minimum Operating Pressure		4.5	4.5	4.5
Maximum Operating Ambient Temperature		46	46	46
Minimum Operating Ambient Temperature		2	2	2
Maximum System Temperature Setting		109	109	109
Nominal Power - Main Motor		132	132	132
Main Motor Efficiency	(3)	96.9%	96.9%	96.9%
Main Inverter Drive Efficiency		97%	97%	97%
Capacity FAD@Max Speed	(1)	25.5	24.0	22.0
Capacity FAD@Min Speed		8.9	8.9	8.9
Package Input Power with Fan - Water Cooled	(4)	147.5	148.8	151.8
Specific Power - Water Cooled	(4)(5)	5.9	6.2	6.9
SOUND LEVEL				
Noise Level Standard Package - Water Cooled	(6)	74	74	74
Noise Level Standard Package - Water Cooled		92	92	92
OIL CARRY OVER	mg/m ³	≤3	≤3	≤3
COOLING DATA (0 Maximum Ambient Temperature & Maximum Discharge Pressure)				
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	m ³ /min	80.0	80.0	80.0
Fan Motor Nominal Power	kW	0.5	0.5	0.5
Cooling Air Temperature Rise@46°C	°C	12	12	12
Cooling Water Temperature Rise@38°C	°C	13	13	13
Cooling Water Flow	m ³ /h			
@10°C		6	6	6
@20°C		7	7	7
@30°C		9	9	9
@38°C	(7)	13	13	13
Cooling Water Max Pressure	bar	4	4	4
Cooling Water Min Pressure	bar	2	2	2
Cooling Water Pressure Drop	bar	1	1	1
Aftercooler CTD	°C	12	12	12
AIR END DATA				
Male Rotor Speed	RPM	3990	3837	3470
Tip Speed Rotor	m/sec	40.5	38.9	35.2
Full Load Shaft Power	kW	145.3	144.7	145.1
COOLANT LUBRICATION DATA				
Total Coolant Capacity - Water Cooled	(12) litres	104	104	104
PIPING CONNECTIONS				
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)
DIMENSIONS AND WEIGHT				
Length, Width, Height	mm	2300*1500*1700	2300*1500*1700	2300*1500*1700
Net Weight - Water Cooled	kg	1805	1805	1805
GA Drawing Number - Water Cooled		47775620001	47775620001	47775620001
ELECTRICAL DATA				
Motor Protection	(13)		TEOC IP66	
Motor Number of Poles			8.0	
Motor Insulation Class / Temperature Rise			Class H, 180 °C	
Full Load Package Current - Water Cooled	(9)			
	Amps @ 380V		252	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)			
	mm ² /Cu (Kcmil) @ 380V		185	
Maximum Recommended Fuse Rating	(10)(11)			
	Amps @ 380V		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 Hemispherical 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 Ingersoll Rand)
- '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: (380V)±7% ;

Model		GDK160-7A	GDK160-8A	GDK160-10A
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0 barg	8.0 barg	10.0 barg
Maximum Operating Pressure	(2)	7.2 barg	8.2 barg	10.2 barg
Minimum Operating Pressure		4.5 barg	4.5 barg	4.5 barg
Maximum Operating Ambient Temperature		46 °C	46 °C	46 °C
Minimum Operating Ambient Temperature		2 °C	2 °C	2 °C
Maximum System Temperature Setting		109 °C	109 °C	109 °C
Nominal Power – Main Motor		160 kW	160 kW	160 kW
Main Motor Efficiency	(3)	97.0%	97.0%	97.0%
Main Inverter Drive Efficiency		97.0%	97.0%	97.0%
Capacity FAD@Max Speed	(1)	31.5 m³/min	30.0 m³/min	27.0 m³/min
Capacity FAD@Min Speed		10.4 m³/min	10.4 m³/min	10.4 m³/min
Package Input Power with Fan – Air Cooled	(4)	182.9 kW	186.0 kW	189.0 kW
Specific Power – Air Cooled	(4)(5)	5.9 kW/m³/min	6.2 kW/m³/min	7.0 kW/m³/min
SOUND LEVEL				
Noise Level Standard Package – Air Cooled	(6)	75 Sound Pressure - dB(A)	75	75
Noise Level Standard Package – Air Cooled		93 Sound Power - dB(A)	93	93
OIL CARRY OVER		≤3 mg/m³	≤3	≤3
COOLING DATA (0 Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		145.0 kW	145.0 kW	145.0 kW
Heat Removal (Oil and Aftercooler)		184.2 kW	184.2 kW	184.2 kW
Permitted Additional Static Pressure		30 Pa	30	30
Fan Air Flow		466 m³/min	466	466
Fan Motor Nominal Power		3.9 kW	3.9	3.9
Cooling Air Temperature Rise@46°C		29 °C	29	29
Aftercooler CTD	(7)	12 °C	12	12
AIR END DATA				
Male Rotor Speed		2980 RPM	2846	2590
Tip Speed Rotor		35.9 m/sec	34.3	31.2
Full Load Shaft Power		178.9 kW	178.9	178.9
COOLANT LUBRICATION DATA				
Total Coolant Capacity – Air Cooled	(12)	94.0 litres	94.0	94.0
PIPING CONNECTIONS				
Air Discharge	(8)	3 INCH (FEMALE)	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain – Hose Size		0.5 (FEMALE)	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		120 (4.7) mm (Inches)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		2450*1500*1700 mm	2450*1500*1700	2450*1500*1700
Net Weight – Air Cooled		2175 kg	2175	2175
GA Drawing Number – Air Cooled		47782160001	47782160001	47782160001
ELECTRICAL DATA				
Motor Protection	(13)		TEOC, IP66	
Motor Number of Poles			12	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current – Air Cooled	(9)	Amps @ 380V	305	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)	mm²/Cu (Kcmil) @ 380V	2*120	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	600	

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 Hemispherical 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 Ingersoll Rand)
- '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: (380V)±7% ;

Model		GDK160-7W	GDK160-8W	GDK160-10W
GENERAL PERFORMANCE DATA				
Rated discharge Pressure		7.0 barg	8.0	10.0
Maximum Operating Pressure	(2)	7.2 barg	8.2	10.2
Minimum Operating Pressure		4.5 barg	4.5	4.5
Maximum Operating Ambient Temperature		46 °C	46	46
Minimum Operating Ambient Temperature		2 °C	2	2
Maximum System Temperature Setting		109 °C	109	109
Nominal Power – Main Motor		160 kW	160	160
Main Motor Efficiency	(3)	97.0%	97.0%	97.0%
Main Inverter Drive Efficiency		97.0%	97.0%	97.0%
Capacity FAD@Max Speed	(1)	m³/min	31.5	30.0
Capacity FAD@Min Speed		m³/min	10.4	10.4
Package Input Power with Fan – Water Cooled	(4)	kW	180.0	189.0
Specific Power – Water Cooled	(4)(5)	kW/m³/min	6.0	6.3
			7.2	7.2
SOUND LEVEL				
Noise Level Standard Package – Water Cooled	(6)	Sound Pressure - dB(A)	74	74
Noise Level Standard Package – Water Cooled		Sound Power - dB(A)	92	92
OIL CARRY OVER		m³/m³	≤3	≤3
			≤3	≤3
COOLING DATA (0 Maximum Ambient Temperature & Maximum Discharge Pressure)				
Heat Removal (Oil Cooler)		kW	145.0	145.0
Heat Removal (Oil and Aftercooler)		kW	184.2	184.2
Permitted Additional Static Pressure		Pa	30	30
Fan Air Flow		m³/min	80.0	80.0
Fan Motor Nominal Power		kW	0.5	0.5
Cooling Air Temperature Rise@46°C		°C	14	14
Cooling Water Temperature Rise@38°C		°C	13	13
Cooling Water Flow		m³/h		
@10°C			6	6
@20°C			7	7
@30°C			9	9
@38°C	(7)		13	13
Cooling Water Max Pressure		bar	4	4
Cooling Water Min Pressure		bar	2	2
Cooling Water Pressure Drop		bar	1	1
Aftercooler CTD		°C	12	12
AIR END DATA				
Male Rotor Speed		RPM	2980	2846
Tip Speed Rotor		m/sec	35.9	34.3
Full Load Shaft Power		kW	178.9	178.9
COOLANT LUBRICATION DATA				
Total Coolant Capacity – Water Cooled	(12)	litres	104	104
PIPING CONNECTIONS				
Air Discharge	(8)	Inches G	3 INCH (FEMALE)	3 INCH (FEMALE)
Coolant Drain – Hose Size		Inches NPT	0.5 (FEMALE)	0.5 (FEMALE)
Diameter of Power Inlet		mm (Inches)	120 (4.7)	120 (4.7)
DIMENSIONS AND WEIGHT				
Length, Width, Height		mm	2450*1500*1700	2450*1500*1700
Net Weight – Water Cooled		kg	2058	2058
GA Drawing Number – Water Cooled			47782161001	47782161001
ELECTRICAL DATA				
Motor Protection	(13)		TEOC IP66	
Motor Number of Poles			12	
Motor Insulation Class / Temperature Rise			Class H, 180°C	
Full Load Package Current – Water Cooled	(9)	Amps @ 380V	298	
Package Power Factor			0.92	
Electrical Installation				
Recommended Supply Cable Size	(10)	mm²/Cu (Kcmil) @ 380V	2*120	
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	600	
Notes:				
1.	FAD (Free Air Delivery) is full package performance including all losses. Tested per ISO 1217 : 2009 Annex C			
2.	Maximum pressure at package discharge, value at which compressor will stop when unit operating at maximum target pressure			
3.	IE3 efficiency motor			
4.	Measured at rated capacity and rated pressure			
5.	Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C			
6.	Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance			
7.	CTD based on 100°F/38°C inlet air at 40% Relative Humidity (For alternate conditions contact Ingersoll Rand)			
8.	'G' Thread for domestic standard			
9.	Maximum current includes 5% additional current due to fouled filters and elements			
10.	90°C copper cables. Always apply local electrical codes for sizing cables and system protection			
11.	Time delay fuse recommended. Apply local electrical codes for fuse sizing			
12.	Coolant volumes listed are approximate. See operator manual for coolant fill procedure			
13.	50Hz (±2%) motor voltage tolerance: (380V)±7% ;			