

Model			GDK75-7A	GDK75-8A	GDK75-10A
<b>GENERAL PERFORMANCE DATA</b>					
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	40	40	40
Minimum Operating Ambient Temperature		°C	2	2	2
Maximum System Temperature Setting		°C	109	109	109
Nominal Power - Main Motor		kW	75	75	75
Main Motor Efficiency	(3)	%	94.0%	94.0%	94.0%
Capacity FAD	(1)	m³/min	13.4	13.0	11.3
Package Input Power with Fan - Air Cooled	(4)	kW	84.5	87.0	85.8
Specific Power - Air Cooled	(4)(5)	kW/m³/min	6.30	6.80	7.60
<b>SOUND LEVEL</b>					
Noise Level Standard Package - Air Cooled	(6)	Sound Pressure - dB(A)	73	73	73
Noise Level Standard Package - Air Cooled		Sound Power - dB(A)	90	90	90
<b>COOLING DATA (@ Maximum Ambient Temperature &amp; Maximum Discharge Pressure)</b>					
Heat Removal (Oil Cooler)		kW	69.8	70.2	72.2
Heat Removal (Oil and Aftercooler)		kW	87.2	87.8	88.4
Permitted Additional Static Pressure		Pa	30	30	30
Fan Air Flow		m³/min	175	175	175
Fan Motor Nominal Power		kW	1.4	1.4	1.4
Cooling Air Temperature Rise @ 30°C		°C	25	25	26
Aftercooler CTD	(7)	°C	12.0	12.0	12.0
<b>AIR END DATA</b>					
Male Rotor Speed		RPM	3262	3127	2750
Tip Speed Rotor		m/sec	30.50	29.20	12.91
Full Load Shaft Power		kW	78.1	80.5	79.3
<b>COOLANT LUBRICATION DATA</b>					
Total Coolant Capacity - Air Cooled	(12)	litres	48	48	48
<b>PIPING CONNECTIONS</b>					
Air Discharge	(8)	Inches BSPP/G	2.0 INCH (FEMALE)	2.0 INCH (FEMALE)	2.0 INCH (FEMALE)
Coolant Drain		Inches BSPP/G	0.5INCH (FEMALE)	0.5INCH (FEMALE)	0.5 INCH (FEMALE)
Diameter of Power Inlet		mm	80	80	80
<b>DIMENSIONS AND WEIGHT</b>					
Length, Width, Height		mm	1969X1234X1605	1969X1234X1605	1969X1234X1605
Net Weight - Air Cooled		kg	1482	1482	1482
GA Drawing Number - Air Cooled			47723423001	47723423001	47723423001
<b>ELECTRICAL DATA</b>					
Motor Protection	(13)		TEFC, IP55	TEFC, IP55	TEFC, IP55
Full Load Package Current - Air Cooled	(9)	Amps @ 380V	139	139	139
Main Motor Locked Rotor Current	(14)	Amps @ 380V	1200	1200	719
Package Power Factor			0.87	0.87	0.87
<b>Electrical Installation</b>					
Recommended Supply Cable Size	(10)	mm²/Cu (Kcmil) @ 380V	70	70	70
Maximum Recommended Fuse Rating	(10)(11)	Amps @ 380V	350	350	350

- 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 unload when unit operating at maximum target pressure
  - IE2 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 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: (380)-7/+7%
  - 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

