



GENERAL PERFORMANCE DATA Rated discharge Pressure Maximum Operating Pressure Minimum Operating Pressure		barg	GDK55-7A	GDK55-8A	GDK55-10A	
Rated discharge Pressure Maximum Operating Pressure		harn				
Maximum Operating Ambient Temperature Minimum Operating Ambient Temperature Maximum System Temperature Setting Nominal Power - Main Motor	(2)	barg barg °C °C °C kW	7.0 7.2 4.5 40 2 109 55	8.0 8.2 4.5 40 2 109 55	10.0 10.2 4.5 40 2 109 55	
Main Motor Efficiency Capacity FAD Package Input Power with Fan - Air Cooled Specific Power - Air Cooled	(1) (4) (4)(5)	% m³/min kW	93.5% 10.6 66.8	93.5% 10.0 66.9	93.5% 8.6 65.4	
Specific Power - Air Cooled	(-)(-)	kW/m ³ /min	6.30	6.80	7.60	
SOUND LEVEL Noise Level Standard Package - Air Cooled Noise Level Standard Package - Air Cooled	(6)	Sound Pressure - dB(A) Sound Power - dB(A)	71 88	71 88	71 88	
COOLING DATA (@ Maximum Ambient Temper Heat Removal (Oil Cooler) Heat Removal (Oil and Aftercooler)	ature & Ma	kimum Discharge Pressure) kW kW	54.1 68.9	54.8 69.2	56.4 69.4	
Permitted Additional Static Pressure		Pa	30	30	30	
Fan Air Flow Fan Motor Nominal Power		m³/min kW	145 0.9	145 0.9	145 0.9	
Cooling Air Temperature Rise @ 30°C		°C	20	20	20	
Aftercooler CTD	(7)	°C	10.0	10.0	10.0	
AIR END DATA Male Rotor Speed Tip Speed Rotor Full Load Shaft Power		RPM m/sec kW	2533 23.60 61.6	2433 22.70 61.7	2161 20.20 60.3	
COOLANT LUBRICATION DATA Total Coolant Capacity - Air Cooled	(12)	litres	48	48	48	
PIPING CONNECTIONS Air Discharge Coolant Drain Diameter of Power Inlet	(8)	Inches BSPP/G Inches BSPP/G mm	2.0 INCH (FEMALE) 0.5INCH (FEMALE) 80	2.0 INCH (FEMALE) 0.5INCH (FEMALE) 80	2.0 INCH (FEMALE) 0.5 INCH (FEMALE) 80	
DIMENSIONS AND WEIGHT Length, Width, Height Net Weight - Air Cooled		mm kg	1969X1234X1605 1482	1969X1234X1605 1482	1969X1234X1605 1482	
ELECTRICAL DATA Motor Protection	(13)		TEFC, IP55	TEFC, IP55	TEFC, IP55	
Full Load Package Current - Air Cooled	(9)					
Main Motor Locked Rotor Current	(14)	Amps @ 380V	104	104	104	
		Amps @ 380V	1050	1050	1050	
Package Power Factor			0.86	0.86	0.86	
Electrical Installation Recommended Supply Cable Size	(10)					
		mm²/Cu (Kcmil) @ 380V	50	50	50	
Maximum Recommended Fuse Rating	(10)(11)					

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

- IE2 etriciency 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

- 9. 10. 11. 12. 13.

- 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 proceedure
 50Hz (£2%) motor voltage tolerance: (380)-7H-7%
 Star-Delta staring current inrunsh 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