

ENGINEERING DATA SHEET

CCN: 47825235001 Rev.: A
ECN: 1491576
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Date: 2023.07

GDK15 TAS

Model			GDK15-7A TAS	GDK15-8A TAS	GDK15-10A TAS	GDK15-12.5A TAS
GENERAL PERFORMANCE DATA						
Rated discharge Pressure	(2)	barg	7	8	10	12.5
Maximum Operating Pressure		barg	7.2	8.2	10.2	12.7
Minimum Operating Pressure Maximum Operating Ambient Temperature		barg °C	4.5 40	4.5 40	4.5 40	4.5 40
Minimum Operating Ambient Temperature		°C	2	2	2	2
Maximum System Temperature Setting		°C	109	109	109	109
Nominal Power - Main Motor Main Motor Efficiency	(3)	kW %	15 90.6%	15 90.6%	15 90.6%	15 90.6%
Wall Wold Linclency		70				50.070
Capacity FAD	(1)	m³/min	2.50	2.40	2.07	1.70
Package Input Power with Fan - Air Cooled	(4)	kW kW	17.3 18.2	17.5 18.4	17.2 18.1	16.5 17.4
Package Input Power with Fan&Dryer - Air Cooled Specific Power - Air Cooled	(4)(5)	kW/m ³ /min	6.9	7.3	8.3	9.7
Specific Power with Dryer- Air Cooled	(4)(5)	kW/m³/min	7.3	7.7	8.7	10.2
SOUND LEVEL	(6)					
Noise Level Standard Package - Air Cooled Noise Level Standard Package - Air Cooled		Sound Pressure - dB(A) Sound Power - dB(A)	68 83	68 83	68 83	68 83
OIL CARRY OVER		mg/m ³	≤5	≤5	≤5	≤5
COOLING DATA (@ Maximum Ambient Tempera Heat Removal (Oil Cooler)	ture & Maximum Discharg	e Pressure) kW	14.4	14.4	14.4	14.4
Heat Removal (Oil and Aftercooler)		kW	17.3	17.3	17.3	17.3
Permitted Additional Static Pressure Permitted Fan Motor Power		Pa kW	30 0.216	30 0.216	30 0,216	30 0.216
Fan Air Flow		m³/min	36.7	36.7	36.7	36.7
Cooling Air Temperature Rise @ 40°C		°C	22.6	22.6	22.6	22.6
Aftercooler CTD	(7)	°C	13.8	13.8	13.8	13.8
Altercooler CTD			15.0	10.0	10.0	13,0
AIR END DATA						
Male Rotor Speed Tip Speed Rotor		RPM	3284 18.38	3091 17.30	2739 15.33	2300 12.87
Full Load Shaft Power		m/sec kW	15.39	15.25	14.9	14.1
COOLANT LUBRICATION DATA Total Coolant Capacity - Air Cooled	(12)	litres	12.6	12,6	12.6	12,6
PIPING CONNECTIONS	(8)					
Air Discharge		Inches R	1 INCH (FEMALE)	1 INCH (FEMALE)	1 INCH (FEMALE)	1 INCH (FEMALE)
Coolant Drain - Hose Size Diameter of Power Inlet		Inches NPT mm (Inches)	0.38(FEMALE) 35 (1.4)	0.38(FEMALE) 35 (1.4)	0.38(FEMALE) 35 (1.4)	0.38(FEMALE) 35 (1.4)
DIMENSIONS AND WEIGHT		mm	1596, 1246,1805	1596, 1246,1805	1596, 1246,1805	1596, 1246,1805
Length, Width, Height Net Weight - Air Cooled		mm kg	812	812	812	812
GA Drawing Number - Air Cooled		r.a	47825235001	47825235001	47825235001	47825235001
ELECTRICAL DATA	[13]					
Motor Speed		rpm	1500	1500	1500	1500
Motor Protection			TEFC IP55	TEFC IP55	TEFC IP55	TEFC IP55
Starting Model Insulation Grade			Y-∆ F	Y-∆ F	Y-∆ F	Y-∆ F
insulation Grade			'	'	'	"
Full Load Package Current - Air Cooled	(9)					
		Amps @ 290V	30	30	30	30
		Amps @ 380V	30	30	30	30
Main Motor Locked Rotor Current	(14)					
			250	250	050	050
		Amps @ 380V	258	258	258	258
Package Power Factor			0.84	0.84	0.84	0.84
Electrical Installation Recommended Supply Cable Size	(10)					
		mm²/Cu (Kcmil) @ 380V	16	16	16	16
	(10)(11)	/Cu (runn) @ 300v	10	10	10	OI
Maximum Recommended Fuse Rating	(=7)(+4)			00	en.	60
		Amps @ 380V	63	63	63	63
Refrigerated Dryer Data Refrigerant Type-Domestic			R134a	R134a	R134a	R134a
Refrigerant Type-Export			R404a	R404a	R404a	R404a
Refrigerant Quantity Fan Air Flow		kg m³/min	0.3 33	0.3 33	0.3 33	0.3 33
***		ISO Class		Particles	Humidity and Liquid Wa	***
Filter Data	(Particles Humidity and	Liquid Water. Oil)	[01-0.5µm]	[0.5-1µm] [1-5µm]		
ISO Class Data	4-49	1.6.1	≤20000	≤400 ≤10	≤+10°C	≤0.01

- 1. 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

 1. Ea officiency motor

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 1. Measured at rated capacity and rated pressure

 2. Specific power guaranteed in accordance with ISO 1217 : 2009 Annex C

 2. Measured in free field conditions per ISO 2151 using Hemispherical Method; ducted inlet and outlet, with + 3 dB(A) tolerance

 2. CTD based on 100°F/38°C inlet at at 40% Relative Humidity (For athernate conditions contact Ingersoll Rand)

 3. RR Thread for domestic standard

 4. Maximum current includes 5% additional current due to foude filters and elements

 5. 90°C copper cables, Alvays apply local electrical codes for sizing cables and system protection

 11. Time delay fixe recommended, Apply local electrical codes for fixes sizing

 2. Coolant Voltage Islandare approximate, See operator manual for coolant fill proceedure

 3. Stal-Delas starting current insuris has abodd 33% of direct starting current

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 4. During the Star-Delas capen-starting transition, the in-rush current value could instantaneously peak from 1.8 to 2.8 times the noted Locked-Rotor-Amperage (LRA) values

 3. TAS units del-Delas 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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