

Ref. No.	LGACC-051021-120
Date	Oct. 21. 2005
Rev. No.	Rev. 0
Rev. Date	-

1. Specification

1.1 Compressor

1	Compressor Model Name	GK151PAD
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary (Rolling Piston Type)
4	Displacement	15.1 cm ³ / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	RB68A(POE) / 350 ± 10 cc
7	Nitrogen Gas Holding Pressure	0.8 ± 0.2 kg / cm ² G
8	Painting	Black Color Paint
9	Net Weight (Including Oil)	13.0 kg
10	Suction Tube I.D.	Φ 12.8 ^{+0.15} ₋₀
11	Discharge Tube I.D.	Φ 8.06 ±0.15

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 POLE / 940 [W]	
Power Source	1 PH - 220/240 V - 50 Hz	
Rated Revolution	2870/2890 rpm	
Insulation Class	E CLASS	
Winding Resistance (at 25°C)	Main	2.916 ± 7 % [Ω]
	Sub	3.429 ± 7 % [Ω]

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1.3 Performance

	at 220V	at 240V
Cooling Capacity [BTU/h]	12,200	12,450
(± 5%) [W]	3,575	3,644
Power Input (± 5%) [Watts]	1,245	1,284
E.E.R(± 5%) [BTU/Wh , (W/W)]	9.8 (2.87)	9.7 (2.84)
Running Current [A]	5.9	5.5
Locked Rotor Ampere [A]	-	24
Sound Pressure Level [dB(A)]	-	60 ± 3
Vibration [gal]	-	1950 Max

Starting Condition	Specification	Pressure Condition
at Normal Condition	start at 90% of Rated Voltage (187 Volt)	Ps / Pd = 9.12 / 33.45 kg/cm ² G
at Overload Condition	start at 95% of Rated Voltage (198 Volt)	Ps / Pd = 10 / 42 kg/cm ² G

※) Rating Conditions

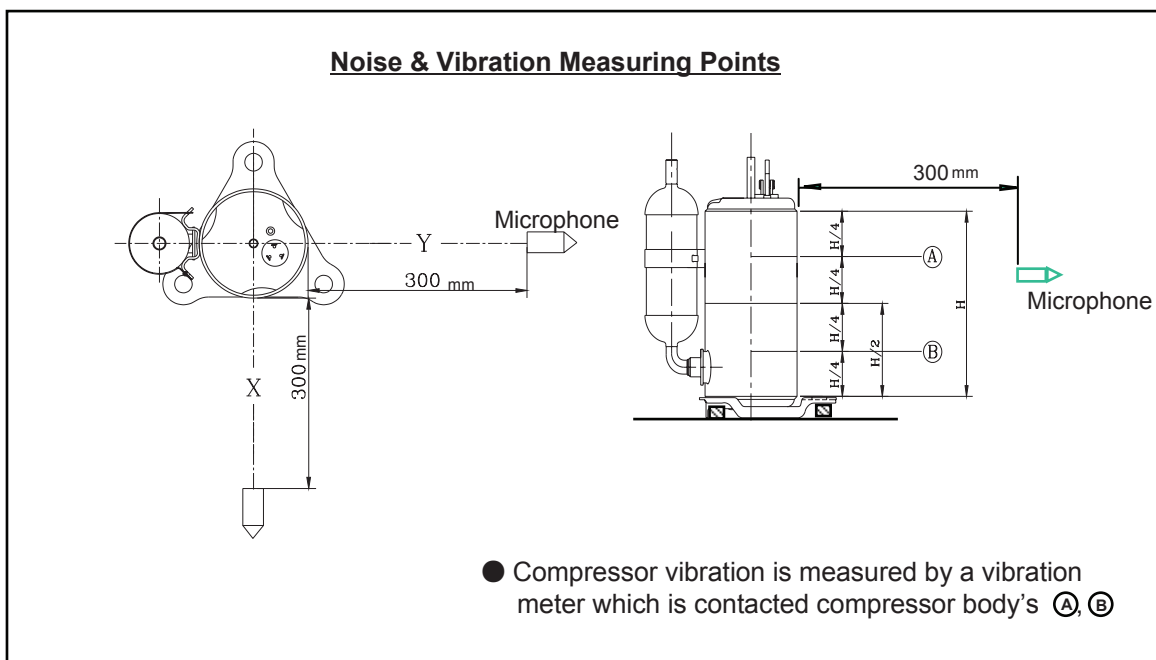
Cond. Temp. : 54.4 °C (130 °F)

Return Gas Temp. : 35.0 °C (95.0 °F)

Evap. Temp. : 7.2 °C (45 °F)

Liquid Temp. : 46.1 °C (114.9 °F)

Ambient Temp. : 35.0 °C (95 °F)



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1.4 Others

Leak Tight Pressure	High Pressure Side	40 kg/cm ² G
	Lower Pressure Side	- kg/cm ² G
Hydrostatic Strength Pressure	High Pressure Side	170 kg/cm ² G
	Lower Pressure Side	80.0 kg/cm ² G
Insulation Resistance (with 500V D.C Mega Tester)		50 M Ω Min.
Withstand Voltage		at 1,800V - 1 min.(2,200 V- 1 sec.) Leakage Current is less than 5mA.
Residual Moisture / Residual Impurities		150 mg Max. / 50 mg Max.

1.5 Electrical Component

Part Name	Specification
Running Capacitor	35 μ F / 400 VAC
Overload Protector	MRA12154-12027 (Texas Instrument)

2.Delivered Parts List

Parts Name	Type (Model)	EA	LG	Supply	
				YES	NO
Compressor	GK151PAC	1		<input checked="" type="checkbox"/>	<input type="checkbox"/>
O.L.P	MRA12154-12027	1	6750U-L077A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cover, Terminal	-	1	3550U - L004A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gasket	-	1	4986U - L001G	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Nut, Hexagon Flange	-	1	1NFZU - L001A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Washer, Plain Cover	-	1	1WPZU - L001A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Grommet	-	3	4022U - L002A	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sleeve, Grommet	-	3	4816U - L001C	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt, Stud	-	3	1BSZU - L002B	YES	<input checked="" type="checkbox"/>
Washer, Plain	-	3	1WPZU - L003A	YES	<input checked="" type="checkbox"/>
Nut, Hexagon	-	3	1NHZU - L001A	YES	<input checked="" type="checkbox"/>
Capacitor	-	1	-	YES	<input checked="" type="checkbox"/>

※) Refer to Attachments (Accessory Parts Drawings.)

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3. Operating Limit

Discharge Pressure	[kg / cm ² G]	42 Max.
Suction Pressure	[kg / cm ² G]	4.0 ~ 12.0
Motor Coil Temp.	[°C]	135 Max.

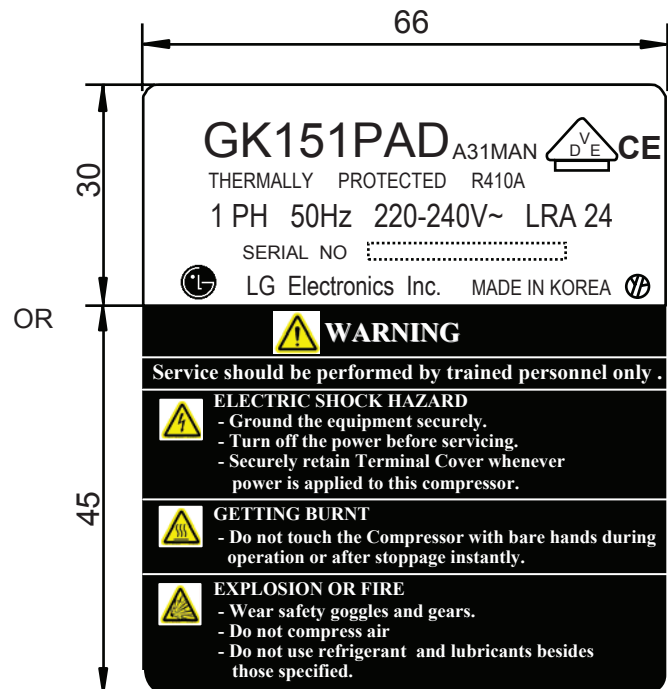
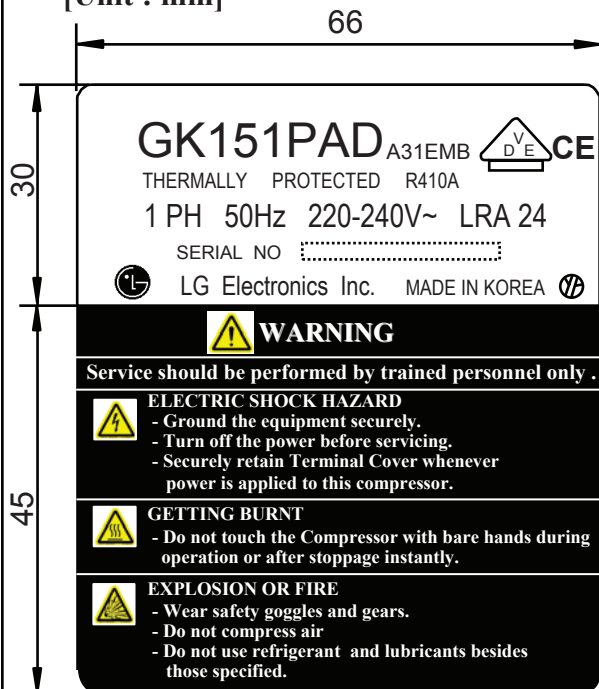
Refrigerant Charge Limit	1,250 g Max.
Continuous Flood Back	Continuous Flood Back before the accumulator should not be more than 10% of the total circulation quantity of refrigerant.
On/Off Interval & Cycles	On / Off = 3 Minutes / 3 Minutes 20,000 Cycles or less
Voltage Range	Rated Voltage ± 10 %
Frequency Range	Rated Frequency ± 2 %
Pressure Difference in Operating	The Pressure Difference in operating shall be 0.49 MPa or more, but 3 minutes starting excluded.
Pressure Difference at Starting	When starting, discharge pressure is balanced with suction pressure.
Tilt in Operation	The allowable tilt of the compressor in operation shall be 5 ° or less

* Effective Period of This Document *

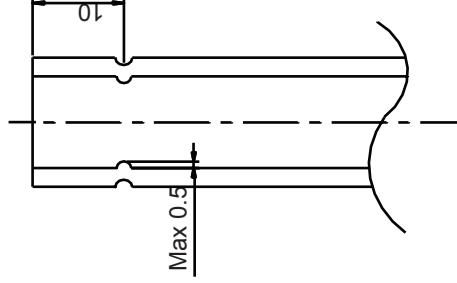
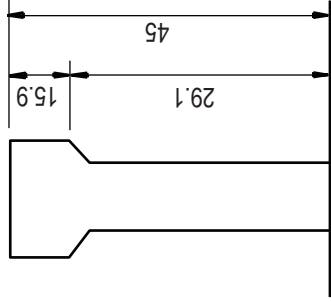
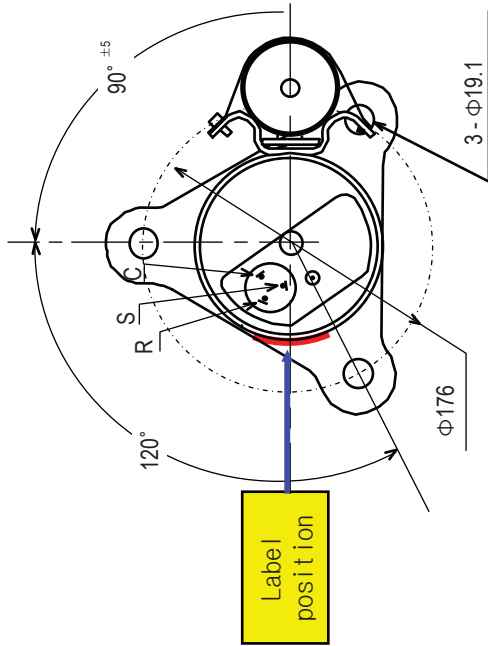
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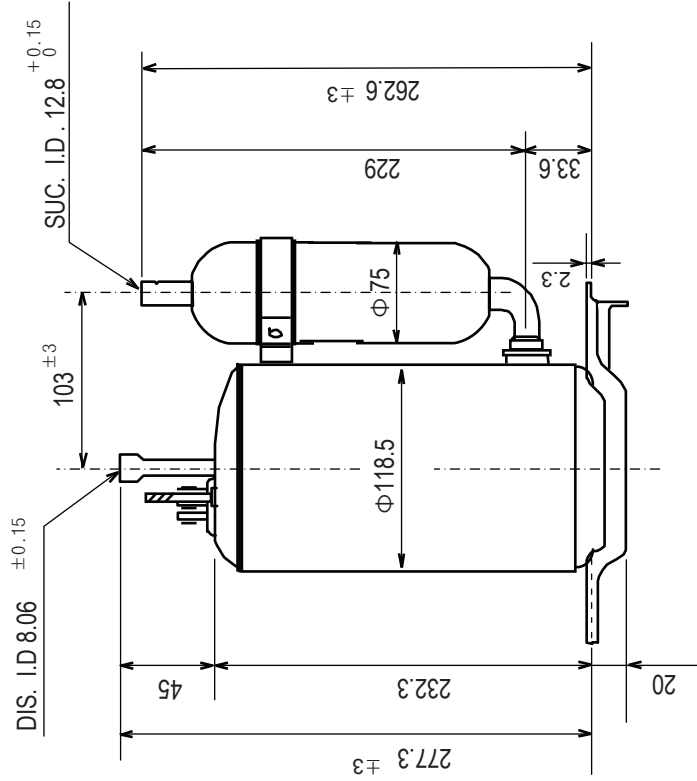
[Unit : mm]



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Detail for dimple of Discharge tube Detail for dimple of suction tube



- NOTES
1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
 2. OIL : RB68A(POE) OR EQUIVALENT 350 cc CHARGED
 3. NITROGEN CHARGED AFTER DEHYDRATION

UNIT	mm	SCALE	N / S	COMP. OUT LINE	
DES. ENGR.	J. Y. LEE	CHF. ENGR.	W. H. JEONG		
DES. ENGR.	Oct. 21. 2005	CHF. ENGR.	Oct. 21. 2005		
DES. ENGR.	LG Electronics Inc.	CHF. ENGR.	CUSTOMER		
DES. ENGR.	A/C COMP. Division	CHF. ENGR.	Embrital		
				GK151PAD	