

Ref. No.	LGACC-030808-203
Date	Aug. 08. 2003
Rev. No.	REV. 0
Rev. Date	

1. Specification

1.1 Compressor

1	Compressor Model Name	GK113PAH
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary (Rolling Piston Type)
4	Displacement	11.3 cm ³ / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	FVC68D / 330 ± 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)	11.7 kg
10	Suction Tube I.D.	Φ 9.7 ^{+0.15} ₀
11	Discharge Tube I.D.	Φ 6.53 ±0.15

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 POLE / 780 [W]	
Power Source	1 PH - 220/240 V - 50 Hz	
Rated Revolution	2860/2890 rpm	
Insulation Class	E CLASS	
Winding Resistance (at 25°C)	Main	4.02 ± 7 % [Ω]
	Sub	4.19 ± 7 % [Ω]

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1.3 Performance

		at 220V	at 240V
Cooling Capacity [BTU/h] (± 5%) [W]		9,000	9,100
		2,637	2,667
Power Input (± 5%) [Watts]		914	938
E.E.R.(± 5%) [BTU/Wh , (W/W)]		9.85 (2.92)	9.7 (2.84)
Running Current [A]		4.2	4.0
Locked Rotor Ampere [A]		-	18.7
Sound Pressure Level [dB(A)]		-	56 ± 2
Vibration [gal]		-	1400 Max

Starting Condition	Specification	Pressure Condition
at Normal Condition	start at 90% of Rated Voltage (198 Volt)	Ps / Pd = 9.12 / 33.45 kg/cm ² G
at Overload Condition	start at 95% of Rated Voltage (209 Volt)	Ps / Pd = 10 / 42 kg/cm ² G

※) Rating Conditions

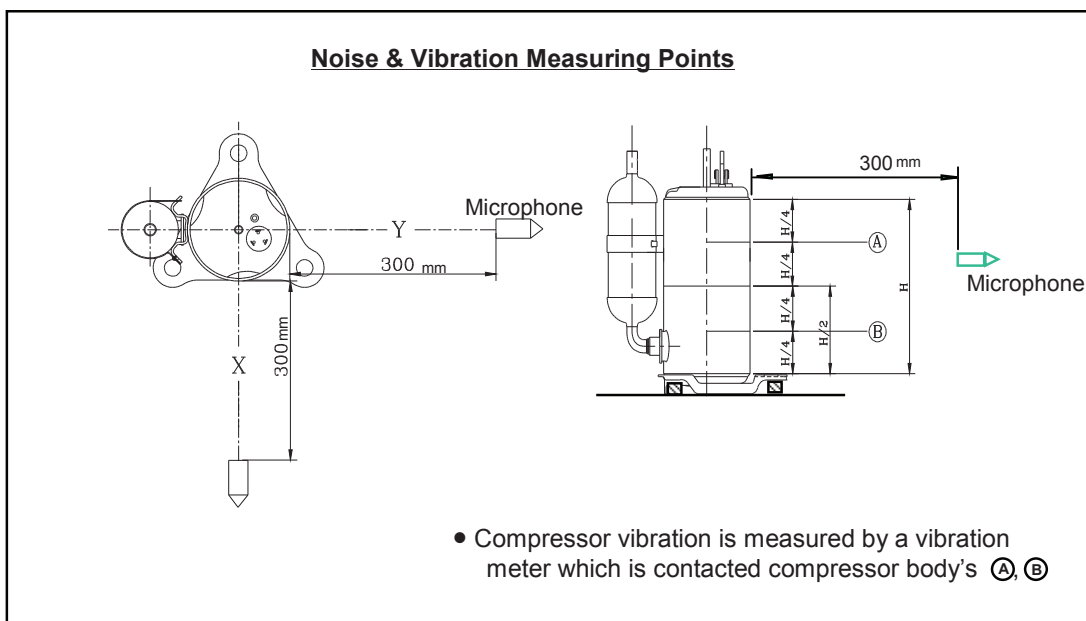
Cond. Temp. : 54.4°C (130 °F)

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 MΩ 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	30 μF / 370 VAC
Overload Protector	MRA12130-12026 (Texas Instrument)

2. Delivered Parts List

Parts Name	Type (Model)	EA	Parts Dwg. NO.(LG)	Supply	
			-	YES	NO
Compressor	GK113PAH	1	-	YES	NO
O.L.P	MRA12130-12026	1	6750U-L061A	YES	NO
Cover, Terminal	-	1	3550U - L004A	YES	NO
Gasket	-	1	4986U - L001G	YES	NO
Nut, Hexagon Flange	-	1	1NFZU - L001A	YES	NO
Washer, Plain Cover	-	1	1WPZU - L001A	YES	NO
Grommet	-	3	4022U - L002A	YES	NO
Sleeve, Grommet	-	3	4816U - L001C	YES	NO
Bolt, Stud	-	3	1BSZU - L002B	YES	NO
Washer, Plain	-	3	1WPZU - L003A	YES	NO
Nut, Hexagon	-	3	1NHZU - L001A	YES	NO
Capacitor	-	1	-	YES	NO

※) Refer to Attachments (Accessory Parts Drawings.)

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3. Operating Limit

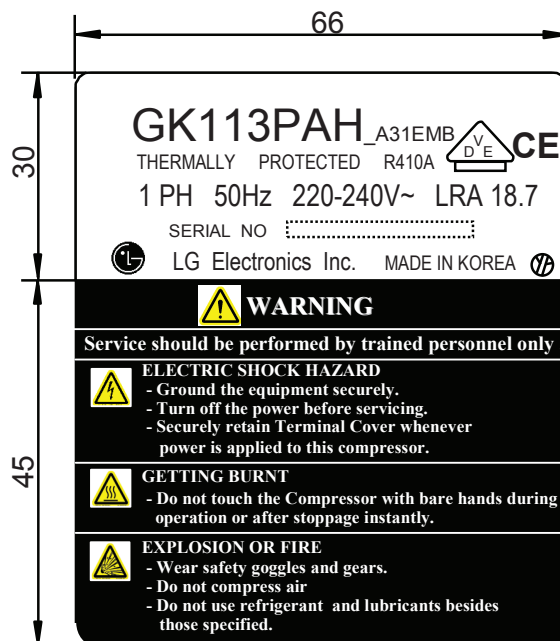
Discharge Pressure	[kg / cm ² G]	42 Max.
Suction Pressure	[kg / cm ² G]	1.0 ~ 7.0
Motor Coil Temp.	[°C]	135 Max.

Refrigerant Charge Limit	800 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

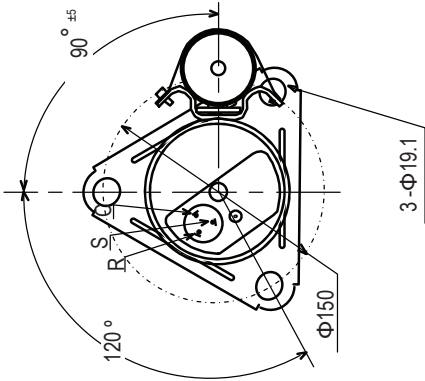
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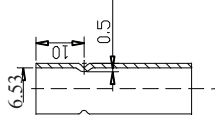
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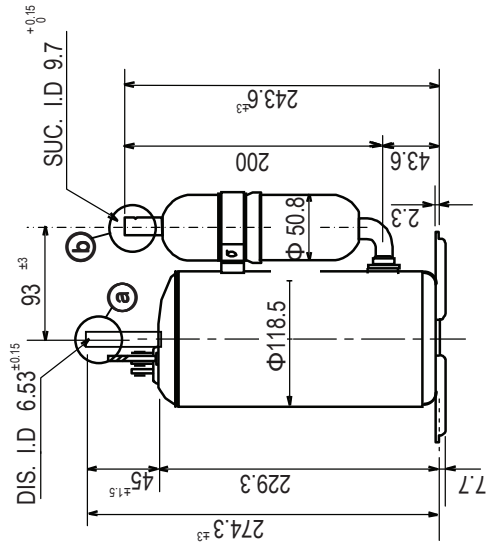
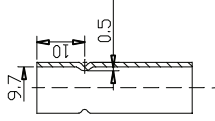
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Detail of ⓐ



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NOTES

1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : FVC68D (Ether) OR EQUIVALENT 330 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION

UNIT	mm	SCALE	N/S
DES. ENGR.		CHF. ENGR.	
Aug. 08. 2003		Aug. 08. 2003	
H. R. JEONG		H. C. JEONG	
LG Electronics Inc.		CUSTOMER	
A/C COMP. Division		EMBRITAL	
COMP. OUT LINE			
GK113PAH			