1.Specification

1.1 Compressor

1	Compressor Model Name	GP270PAA
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary (Rolling Piston Type)
4	Displacement	27.0 cm^2/ rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	FVC68D / 700 ± 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)	22.1 kg
10	Suction Tube I.D.	Ø16.0 $^{+0.15}_{-0}$
11	Discharge Tube I.D.	Ø9.7 ± 0.15

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 POLE / 2150 [W]	
Power Source	1 PH - 220/240 V - 50 Hz	
Rated Revolution	2876 rpm	
Insulation Class	E CLASS	
Winding Resistance (at 25°C)	Main	1.249 ± 7 % [Ω]
	Sub	2.641 ± 7 % [Ω]

1.3 Performance

	at 220V	at 240 V
Cooling Capacity [BTU/h]	23,100	23,400
(± 5%) [Watts]	6,770	6,858
Power Input (± 5%) [Watts]	2,330	2,412
E.E.R(± 5%) [BTU/Wh , (W/W)]	9.9 (2.90)	9.7 (2.84)
Running Current [A]	10.7	10.4
Locked Rotor Ampere [A]	-	62
Sound Pressure Level [dB(A)]	-	66 ± 2
Vibration [gal]	-	2000 Max

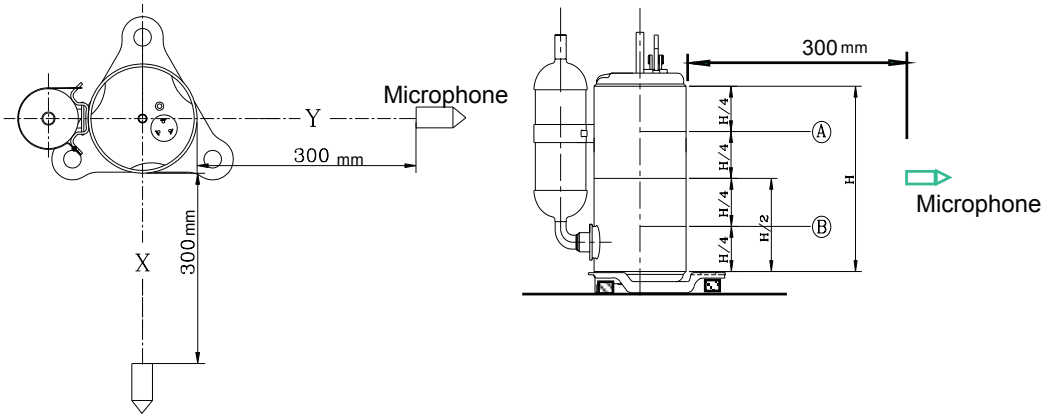
Starting Condition	Specification	Pressure Condition
at Normal Condition	start at 90% of Rated Voltage (198 Volt)	Ps / Pd = 9.12 / 33.45 kg/㎠G
at Overload Condition	start at 95% of Rated Voltage (209 Volt)	Ps / Pd = 10 / 42 kg/㎠G

※) Rating Conditions

Cond. Temp. : 54.4℃ (130 °F)
Evap. Temp. : 7.2℃ (45 °F)

Return Gas Temp. : 35.0℃ (95.0°F)
Liquid Temp. : 46.1℃ (114.9°F)
Ambient Temp. : 35.0℃ (95°F)

Noise & Vibration Measuring Points



● Compressor vibration is measured by a vibration meter which is contacted compressor body's Ⓐ, Ⓑ

1.4 Others

Leak Tight Pressure	High Pressure Side	40 kg/㎠G
	Lower Pressure Side	- kg/㎠G
Hydrostatic Strength Pressure	High Pressure Side	170 kg/㎠G
	Lower Pressure Side	80.0 kg/㎠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 5㎃.
*) Residual Moisture / Residual Impurities		150 ㎎ Max. / 70 ㎎ Max.

*) Each part is measured separately

1.5 Electrical Component

Part Name	Specification
Running Capacitor	50 ㎌ / 400 VAC
Overload Protector	Internal Type

2.Delivered Parts List

Parts Name	Type (Model)	EA	Parts Dwg. NO.(LG)	Supply	
			-		
Compressor	GP270PAA	1	-	(YES)	NO
O.L.P	Internal Type	1	-	YES	(NO)
Cover, Terminal	-	1	3550U - L005A	(YES)	NO
Gasket	-	1	4986U - L004A	(YES)	NO
Nut, Hexagon Flange	-	1	1NFZU - L001A	(YES)	NO
Washer, Plain Cover	-	1	1WPZU - L001A	(YES)	NO
Grommet	-	3	4022U - L005A	(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.)

Date	Rev.No.	Description	Ref. No.	LGACC-041111-196
Feb.26.2005	⚠1	• The suction pressure was 1.0~7.0	Date	Nov. 11. 2004
			Rev. No.	REV. 1
			Rev. Date	Feb. 26. 2005

3.Operating Limit

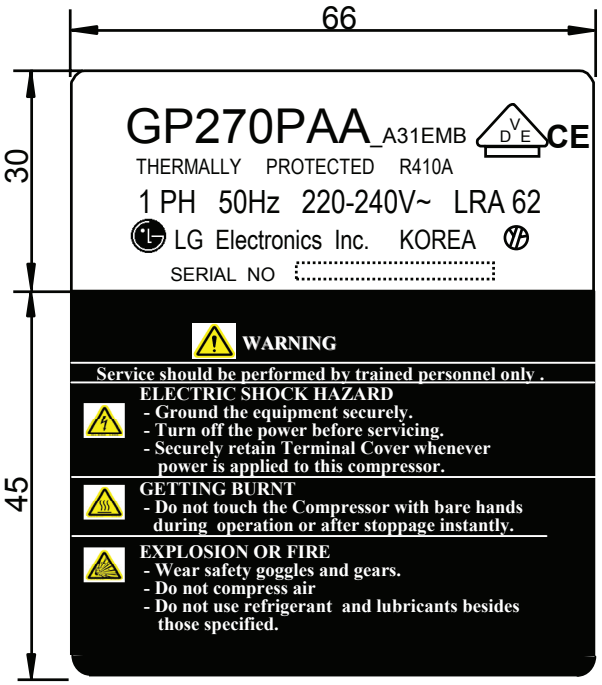
Discharge Pressure	[kg / ㎠G]	42 Max.
Suction Pressure	[kg / ㎠G]	⚠1 3.0 ~ 12.0
Motor Coil Temp.	[℃]	135 Max.

Refrigerant Charge Limit	SRAC Cooling Only	1,700g Max.
	SRAC Heat Pump	1,150g 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 -15 % , +10 %	
Frequency Range	Rated Frequency ± 2 %	
Pressure Difference in Operating	The Pressure Difference in operating shall be 0.49 ㎫ 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	

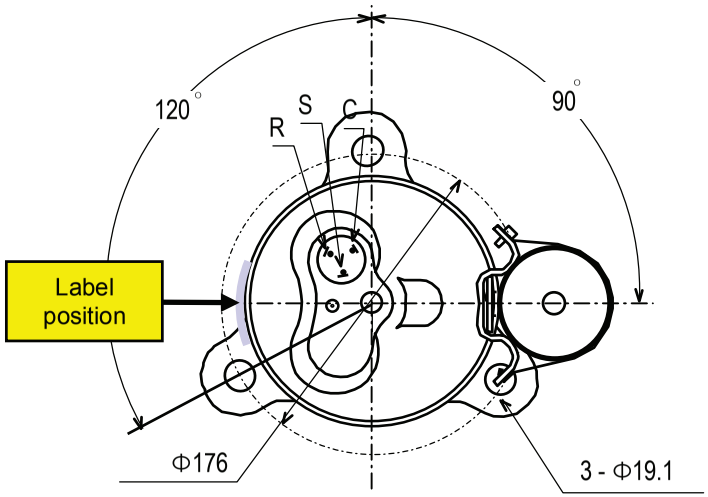
*** Effective Period of This Document ***

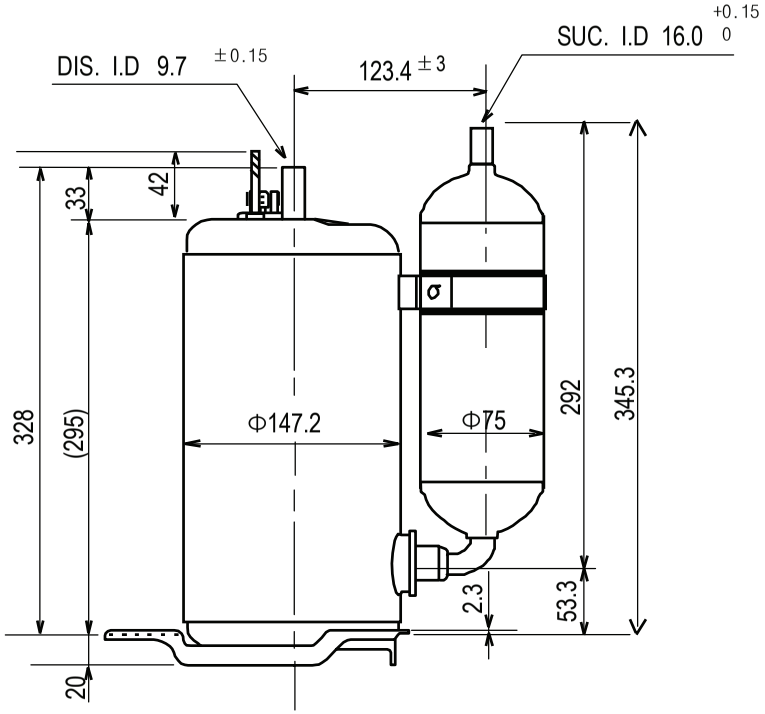
This document will be effective after LG's receipt with your authorized signature.
When design modification is approved by the customer, the current document is unavailable.

*** LABEL ***



Ref. No.	LGACC-041111-196
Date	Nov. 11. 2004
Rev. No.	REV. 0
Rev. Date	-





NOTES
1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : FVC68D (Ether) OR EQUIVALENT 700 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION

UNIT	mm	SCALE	N / S	COMP. OUT LINE
DES. ENGR.		CHF. ENGR.		
Nov. 11. 2004 J. T. KIM		Nov. 11. 2004 H. C. JEONG		GP270PAA
LG Electronics Inc. A/C Comp. Division		CUSTOMER EMBRITAL		

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