

Ref. No.	LGACC-030808-205
Date	Aug. 08. 2003
Rev. No.	REV.0
Rev. Date	-

1. Specification

1.1 Compressor

1	Compressor Model Name	GJ176PAB
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary Type (Rolling Piston Type)
4	Displacement	17.6 cm ³ / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	FVC68D 440 ± 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)	14.7 Kg
10	Suction Tube I.D	∅ 12.8 $\pm \begin{matrix} 0.15 \\ 0 \end{matrix}$ mm
11	Discharge Tube I.D	∅ 9.7 ± 0.05 mm

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 Pole / 1108 watts	
Power Source	1 Ph - 220/240 volt - 50 Hz	
Rated Revolution	2868 / 2886 rpm	
Insulation Class	E Class	
Winding Resistance (at 25 °C)	Main	2.05 ± 7% ohm
	Sub	4.23 ± 7% ohm

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1.3 Performance

	at 220V	at 240 V
Cooling Capacity [BTU/h]	14,400	14,500
(± 5%) [Watts]	4,220	4,249
Power Input (± 5%) [Watts]	1,485	1,526
E.E.R.(± 5%) [BTU/Wh ,(W/W)]	9.7 (2.84)	9.5 (2.78)
Running Current [A]	7.0	6.8
Locked Rotor Ampere [A]	-	37
Sound Pressure Level [dB(A)]	-	63± 2
Vibration [gal]	-	1,800 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

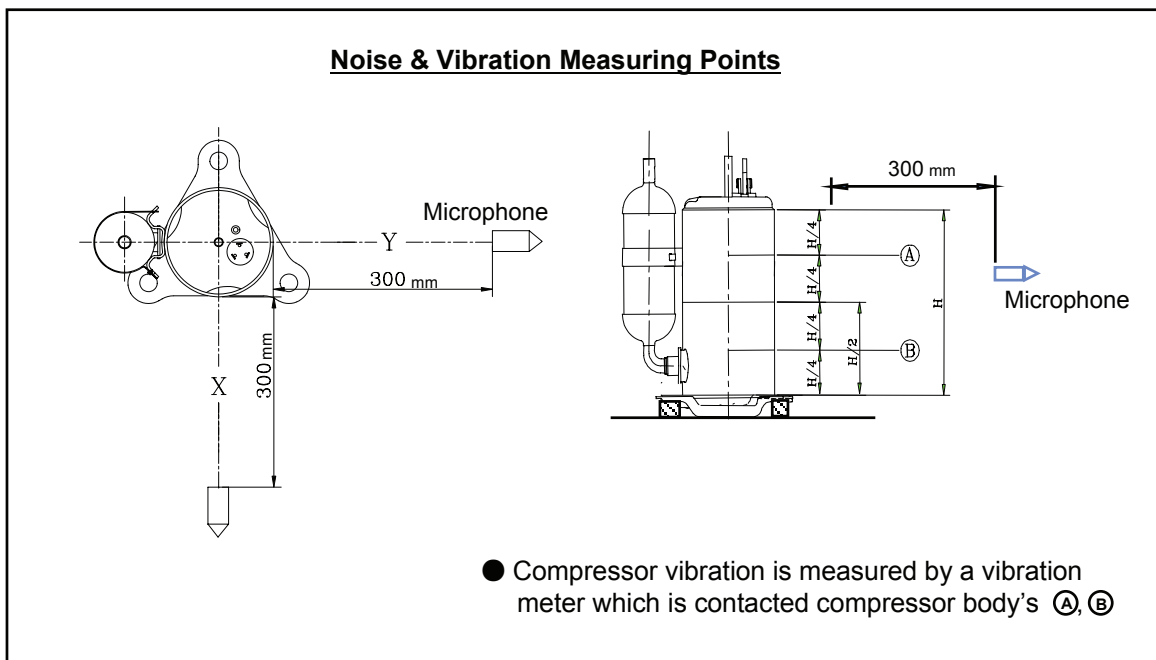
Cond. Temp. : 54.4 °C (130 °F)

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 2,200 V- 1 sec. Leakage Current is less than 5 mA.
Residual Moisture / Residual Impurities		150 mg Max. / 70 mg Max.

1.5 Electrical Component

Part Name	Specification
Running Capacitor	35 MFD / 400 VAC
Overload Protector	Internal Type

2. Delivered Parts List

Parts Name	Type (Model)	EA	Parts Dwg. NO.(LG)	Supply	
Compressor	GJ176PAB	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 - L002A	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

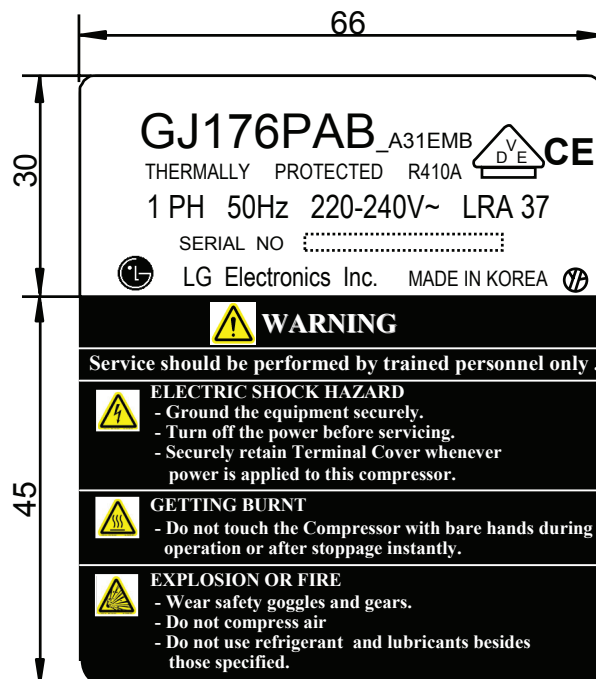
Discharge Pressure	[kg / cm ² G]	42 max.
Suction Pressure	[kg / cm ² G]	1.0 ~ 7.0
Motor Coil Temp.	[°C]	135 Max.

Refrigerant Charge Limit	1,000g Max.
Continuous Flood Back	Continuous Flood Back before the compressor 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

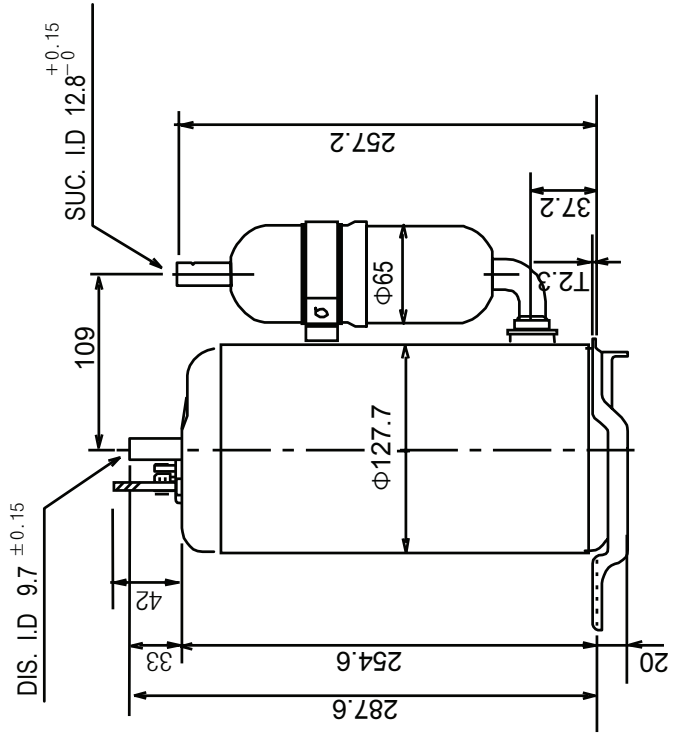
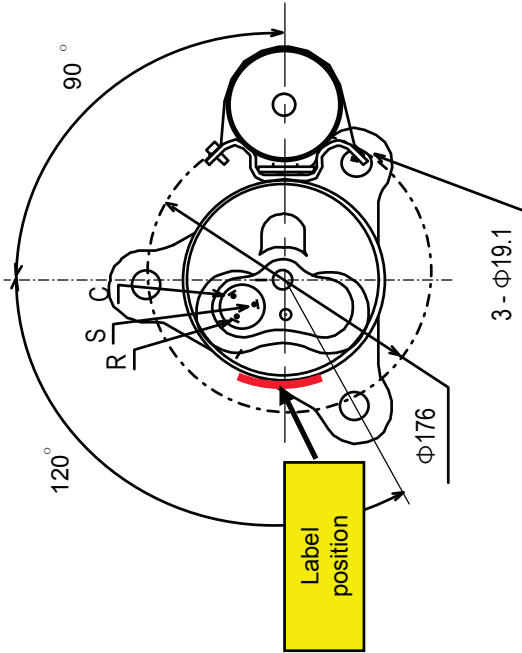
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NOTES

1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : FVC68D (PVE) 440cc 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			
GJ176PAB			