Ref. NO.	LGACC-090120-
Issued Date	Jan. 20. 2009
Rev. NO.	Rev. 0
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1.Specification

1.1 Compressor

1	Compressor Model Name	GKS151PAA
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary Type (Rolling Piston Type)
4	Displacement	15.1 ㎤ / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	RB68A(POE) / 350±10 cc
7	Painting	Black Color Paint
8	Net Weight (Including Oil)	13.0 kg
9	Suction Tube I.D	Φ 12.8 $^{+0.15}_{0}$ mm
10	Discharge Tube I.D	Φ8.06 $^{+0.1}_{0}$ mm

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 Pole / 940 Watts	
Power Source	1 Ph - 220 - 240Volts - 50 Hz	
Rated Revolution	2,870/2,890 rpm	
Insulation Class	E Class	
LG Motor Windings Resistance (at 75 ℃)	Main	NOT FIXED
	Sub	NOT FIXED

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1.3 Performance

Voltage		at 220 V	at 240 V
Cooling Capacity (-5%↑)	[BTU/h]	12,200	12,450
	[W]	3,575	3,648
Power Input (+5%↓)	[watts]	1,196	1,245
EER (-5%↑)	[BTU/w · hr]	10.2	10.0
Running Current	[A]	5.7	5.3
Locked Rotor Ampere	[A]	-	27
Sound Level	[dB(A)]	-	66 Max
Vibration Standard Condition	[gal]	-	1700 Max

1.5 Others

Leak Tight Pressure	High Pressure Side	40 kgf / ㎠ G
	Low Pressure Side	-
Hydrostatic Strength Pressure	High Pressure Side	170 kgf / ㎠ G
	Low Pressure Side	69 kgf / ㎠ 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 ㎃
Residual Moisture (Karl Fisher Method)		60 mg Max.
* Residual Impurities		150 mg Max

1.6 Electrical Component

Running Capacitor	35 MFD / 400 VAC
Over Load Protector	MRA12154-12027

3.Operating Limit

Discharge Pressure	[kgf / ㎠ G]	42.0 Max.
Suction Pressure	[kgf / ㎠ G]	4.0 ~ 12.0
Motor Coil Temp.	[℃]	135 Max.

Refrigerant Charge Limit	[Cooling Only] 1,250g Max.(*K≥0.4,**Oil Dilution Rate=0.20) *Must apply the accumulator in effective volume 470cc to use a GKS151PAA.A11EMB [Heat Pump] 950g Max.(*K≥0.6,**Oil Dilution Rate=0.25) *Must apply the accumulator in effective volume 470cc to use a GKS151PAA.A11EMB
Liquid Refrigerant Back	System should be designed not to allow the liquid to go back to compressor which cause knocking noise , current increase or undesirable vibration.
Stress In Suction & Discharge Piping Surface (Include Accumulator)	150 kgf / ㎠ Max.
Fan Motor in Application	• Fan motor of condenser must be operating when compressor is operating. • When OLP of compressor closes , fan motor of condenser should be operating. • In case system has intentional fan stop , compressor should be operated within limits of system application.
On / Off Interval	Running Interval Min. 6 Minutes. On / Off = 3 Minutes / 3 Minutes
Voltage Range (Standard Condition)	Rated Voltage –15% ,+10%
Frequency Range	Rated Frequency ± 2%
Pressure Difference at Starting	When starting , discharge pressure is balanced with suction pressure within 0.05 ㎫.
Tilt in Operation	The allowable tilt of the compressor in operation shall be 5˚ or less.

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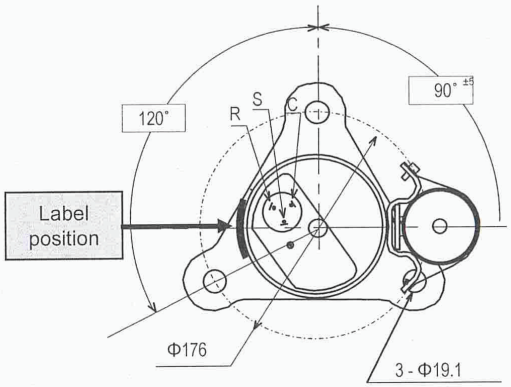

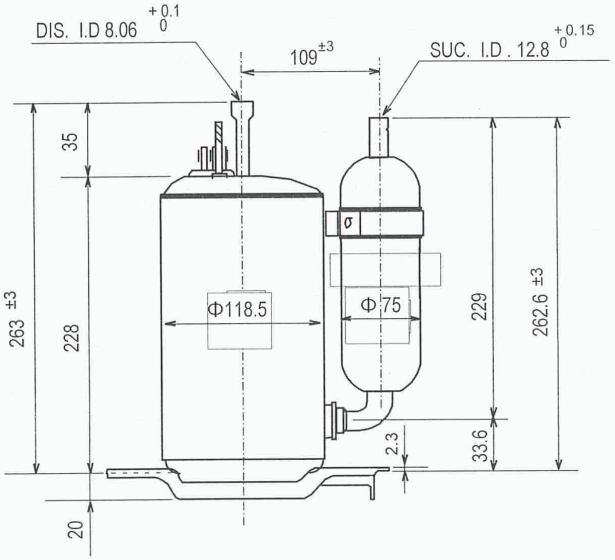

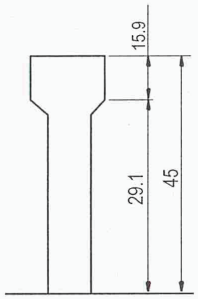

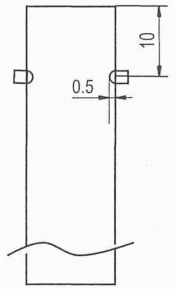

Detail of Discharge Tube Detail of Suction Tube

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.		CHF. ENGR.		
Jan. 20. 2009 K. J. LEE		Jan. 20. 2009 T. Y. NOH		GKS151PAA
LG Electronics Inc. A/C COMP. Division		CUSTOMER EMBRITAL		

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