	Ref. NO.	LGACC-131104-001
	Issued Date	Nov. 04. 2013
	Rev. NO.	Rev. 0
1.Specification	Rev. Date	-
1 1 Compressor		·

1.1 Compressor

1	Compressor Model Name	GPS250PAA	
2	Compressor Type	Hermetic Motor Compressor	
3	3 Compression Type Rotary Type (Rolling Piston Type		
4	Displacement	25.0 cm³ / rev	
5	Refrigerant	R 410A	
6	Oil / Oil Charging Amount	POE(RB68A) or PVE(FVC68D) / 750 cc	
7	Painting	Black Color Paint	
8	Net Weight (Including Oil)	22.0 kg	
9	Suction Tube I.D	Φ 16.0 0 mm	
10	Discharge Tube I.D	Φ 9.7 ± 0.15 mm	

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC		
Pole / Rated Output	2 Pole / 2150 Watts		
Power Source	1 Ph - 220 / 240Volts - 50 Hz		
Rated Revolution	2876 rpm		
Insulation Class	E Class		
Windings Resistance	Main	1.50 ± 7% Ohms	
(at 75 °C)	Sub	$3.14\pm7\%~{ m Ohms}$	

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1.3 Performance			
Voltage		at 220 V	at 240 V
Cooling Capacity (-5%↑)	ling Capacity (-5%↑) [BTU/h] [kcal/h]	21,200	21,500
		5,342	5,418
Power Input (+5%↓)	[watts]	2,038	2,129
EER (-5%↑)	[BTU/w・hr]	10.4	10.2
Running Current	[A]	9.6	9.6
Locked Rotor Ampere	[A]	60 A	
Sound Level	[dB(A)]	76 (MAX)	
Vibration Standard Condition	[Gal]	2,00	0 Max

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1.6 Minimum Startin	g Voltage			Rev. Date	-
Cold Start - Temp. Condition : 35°C - Balanced pressure		176 Volts Max.			
1.7 Others					
Leok Tight Dressure	High Press	ure Side		40 kgf/cm²G	
Leak Tight Pressure	Low Press	ure Side			
Hydrostatic Strength	High Press	ure Side		170 kgf/cm²G	
Pressure	Low Press	ure Side		69.0 kgf/cm²G	
Insulation Resistance (with 500V D.C Mega Tester)		r)	50 MΩ Min.		
Withstand Voltage				At 2,200 V / 1 Sec. Leakage Current is less than 5 mA	
Residual Moisture (Karl Fisher Method)			100 mg Max.		
** Residual Impurities		70 mg Max			
** ⁾ Each part is measured					
Running Capacitor			45 N	/IFD / 400 VA	
	I		INTERNAL		

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3	8.Operating Limit		Rev. Date	-
	. 3			
	Discharge Pressure	[kgf/cm²G]	42.0 Max.	
	Suction Pressure	[kgf/cm²G]	4.0 ~ 1	12.0
	Discharge Temp.	[°C]	115 Max.	
	Motor Coil Temp.	[°C]	135 M	ax.
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Refrigerant Charge Limit	 [Cooling Only] 2,500g Max.(*K≥0.4,**Oil Dilution Rate=0.2) *Must apply the accumulator in effective volume990cc to use a GPS250PA* [Heat Pump] 2,000g Max.(*K≥0.6,**Oil Dilution Rate=0.25) *Must apply the accumulator in effective volume 990cc to use a GPS250PA*
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/cm² 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 \pm 15% (at 220V)
Frequency Range	Rated Frequency \pm 2%
Pressure Difference at Starting	When starting , discharge pressure is balanced with suction pressure within 0.05 \mathbb{M}_a .
Tilt in Operation	The allowable tilt of the compressor in operation shall be 5° or less.

