

Ref. NO.	TBZ35258901
Issued Date	Dec. 10. 2010
Rev. NO.	Rev. 4
Rev. Date	MAY. 04. 2011


1.Specification

1.1 Compressor


1	Compressor Model Name	GKS094PAB
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Rotary Type (Rolling Piston Type)
4	Displacement	9.4 cm ³ / rev
5	Refrigerant	R 410A
6	Oil / Oil Charging Amount	POE(RB68A) or PVE(FVC68D) / 330cc
7	Painting	Black Color Paint
8	Net Weight (Including Oil)	11.9kg
9	Suction Tube I.D	Φ 12.8 $\begin{matrix} +0.15 \\ 0 \end{matrix}$ mm
10	Discharge Tube I.D	Φ 8.06 $\begin{matrix} +0.1 \\ 0 \end{matrix}$ mm

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor / PSC	
Pole / Rated Output	2 Pole / 780 Watts	
Power Source	1 Ph - 220 - 240Volts - 50 Hz	
Rated Revolution	2,875 rpm	
Insulation Class	E Class	
LG Motor Windings Resistance (at 75 °C)	Main	5.18 ± 7% Ohms
	Sub	5.73 ± 7% Ohms

Date	Rev.No.	Description	Ref. NO.	TBZ35258901
2011. 05.04		-Change the Power Input(748→755)	Issued Date	Dec. 10. 2010
			Rev. NO.	Rev. 4
			Rev. Date	MAY. 04. 2011

1.3 Performance

Voltage		at 220 V	at 240 V
Cooling Capacity (-3%↑)	[BTU/h]	7,700	7,750
	[kcal/h]	1,940	1,953
Power Input (+3%↓)	[watts]	 755	799
EER (-3%↑)	[BTU/w · hr]	10.2	9.7
Running Current	[A]	3.6	3.5
Locked Rotor Ampere	[A]	-	20A
Sound Level	[dB(A)]	-	69 Max
Vibration Standard Condition	[gal]	-	1300 Max

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1.4 Voltage Range

at Standard Condition	187 ~ 264 Volts
at Overload Condition	198 ~ 264 Volts

☞ Standard Conditions

Cond. Temp. : 54.4 °C (130 °F)

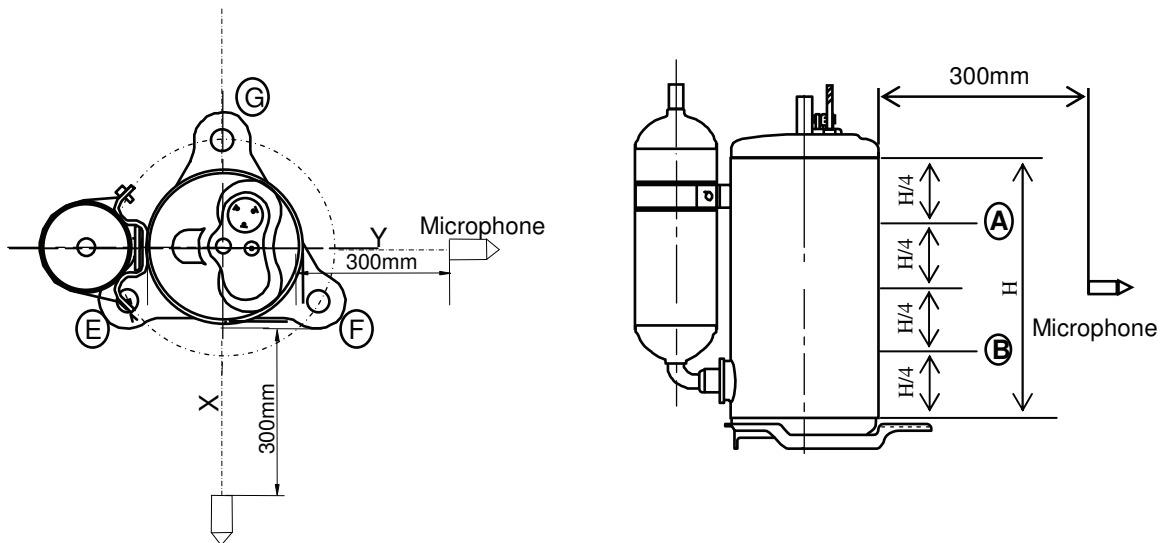
Evap. Temp. : 7.2 °C (45 °F)

Return Gas Temp. : 35.0 °C (95 °F)


Liquid Temp. : 46.1 °C (115 °F)

Ambient Temp. : 35.0 °C (95 °F)

Noise & Vibration Measuring Points



- Measuring points for specification approval
 - Noise : 2 points (X , Y)
 - Vibration : 2 points (A , B)
- Compressor vibration is measured by a vibration meter which is contacted compressor A ~ B
- Test Condition :
 - Standard Condition (Ps/Pd = 9.12 / 33.45 kg/cm²G)

Date	Rev.No.	Description	Ref. NO.	TBZ35258901
2011. 01.04		-Change the Running Capacitor (400VAC → 450VAC)	Issued Date	Dec. 10. 2010
			Rev. NO.	Rev. 4
			Rev. Date	MAY. 04. 2011


1.5 Minimum Starting Voltage

Cold Start - Temp. Condition : 35°C - Balanced pressure	187 Volts Max.
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1.6 Others

Leak Tight Pressure	High Pressure Side	40 kgf / cm ² G
	Low Pressure Side	-
Hydrostatic Strength Pressure	High Pressure Side	170 kgf / cm ² G
	Low Pressure Side	69.0 kgf / 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 (Karl Fisher Method)		60 mg Max.
* Residual Impurities		70 mg Max

1.6 Electrical Component

Running Capacitor	30 μF / 450 VAC 
Over Load Protector	MRA98854-12026

PERFORMANCE TABLE

MODEL GKS094PA (1PH,220/240V-50Hz)

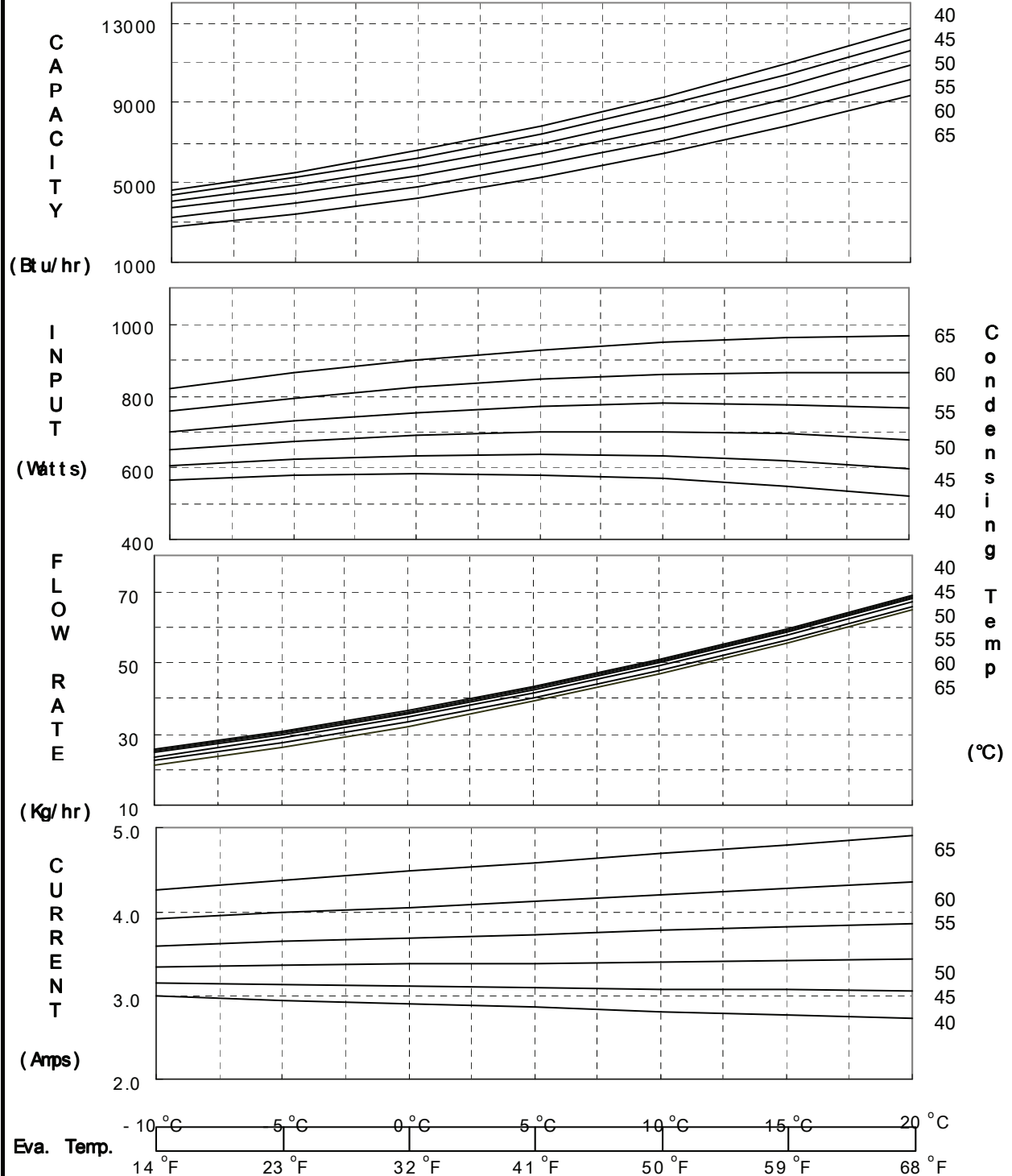
Saturated Evaporating Temperature		Saturated Condensing Temperature						
Items		40°C (104°F)	45°C (113°F)	50°C (122°F)	55°C (131°F)	60°C (140°F)	65°C (149°F)	
-10°C (14°F)	Capacity	(Btu/h)	4662	4408	4096	3725	3296	2809
	Input	(Watts)	567	605	650	701	758	822
	Flow Rate	(kg/h)	25.87	25.36	24.65	23.75	22.66	21.37
	EER	(Btu/W.h)	8.22	7.29	6.30	5.32	4.35	3.42
	Current	(Amps)	3.00	3.15	3.35	3.60	3.91	4.27
-5°C (23°F)	Capacity	(Btu/h)	5540	5236	4874	4453	3973	3436
	Input	(Watts)	579	624	675	732	796	866
	Flow Rate	(kg/h)	30.89	30.38	29.68	28.78	27.70	26.41
	EER	(Btu/W.h)	9.56	8.39	7.22	6.08	4.99	3.97
	Current	(Amps)	2.95	3.13	3.36	3.65	3.98	4.38
0°C (32°F)	Capacity	(Btu/h)	6606	6252	5839	5368	4839	4251
	Input	(Watts)	584	635	692	755	825	902
	Flow Rate	(kg/h)	36.78	36.28	35.58	34.69	33.61	32.33
	EER	(Btu/W.h)	11.31	9.85	8.44	7.11	5.86	4.71
	Current	(Amps)	2.91	3.11	3.38	3.69	4.06	4.48
5°C (41°F)	Capacity	(Btu/h)	7860	7456	6993	6471	5892	5253
	Input	(Watts)	581	638	701	771	847	930
	Flow Rate	(kg/h)	43.55	43.05	42.36	41.47	40.40	39.12
	EER	(Btu/W.h)	13.54	11.69	9.98	8.40	6.96	5.65
	Current	(Amps)	2.86	3.10	3.39	3.73	4.13	4.59
10°C (50°F)	Capacity	(Btu/h)	9302	8847	8334	7762	7132	6444
	Input	(Watts)	569	632	702	778	861	950
	Flow Rate	(kg/h)	51.19	50.70	50.01	49.13	48.06	46.79
	EER	(Btu/W.h)	16.34	13.99	11.87	9.98	8.29	6.79
	Current	(Amps)	2.82	3.08	3.40	3.78	4.21	4.69
15°C (59°F)	Capacity	(Btu/h)	10931	10426	9863	9241	8561	7822
	Input	(Watts)	550	619	695	777	866	962
	Flow Rate	(kg/h)	59.71	59.22	58.54	57.66	56.60	55.33
	EER	(Btu/W.h)	19.88	16.84	14.19	11.89	9.88	8.14
	Current	(Amps)	2.77	3.07	3.42	3.82	4.28	4.80
20°C (68°F)	Capacity	(Btu/h)	12748	12193	11580	10908	10177	9389
	Input	(Watts)	522	598	680	769	864	965
	Flow Rate	(kg/h)	69.10	68.62	67.94	67.07	66.01	64.75
	EER	(Btu/W.h)	24.40	20.39	17.02	14.19	11.78	9.73
	Current	(Amps)	2.72	3.05	3.43	3.87	4.36	4.90

PERFORMANCE CURVE

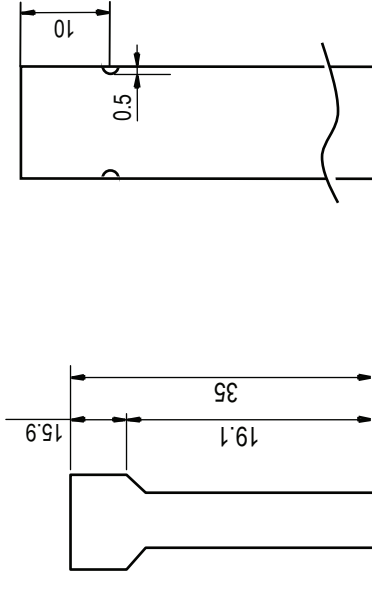
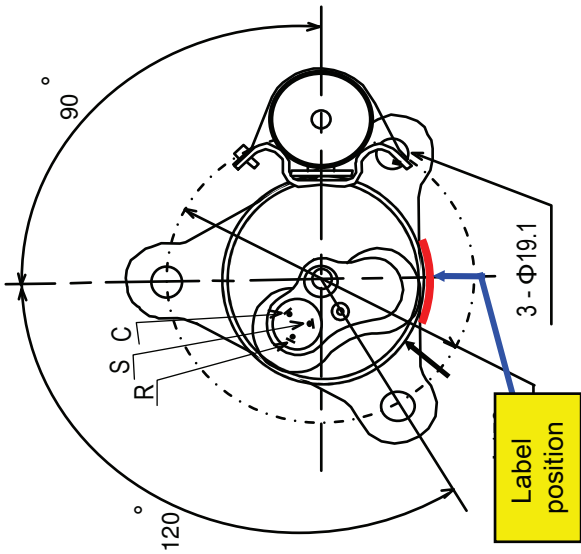
MODEL GKS094PA (1PH,220/240V-50Hz)

● **Rated Condition**

Evaporating Temp.	7.2 °C	45.0 °F	Motor Type	:	PSC
Condensing Temp.	54.4 °C	130.0 °F	Running Capacitor	:	30 MFD 400 VAC
Suction Gas Temp.	35.0 °C	95.0 °F			
Subcooled Temp.	8.3 °C	15.0 °F			
Ambient Temp.	35.0 °C	95.0 °F			Based on 220V



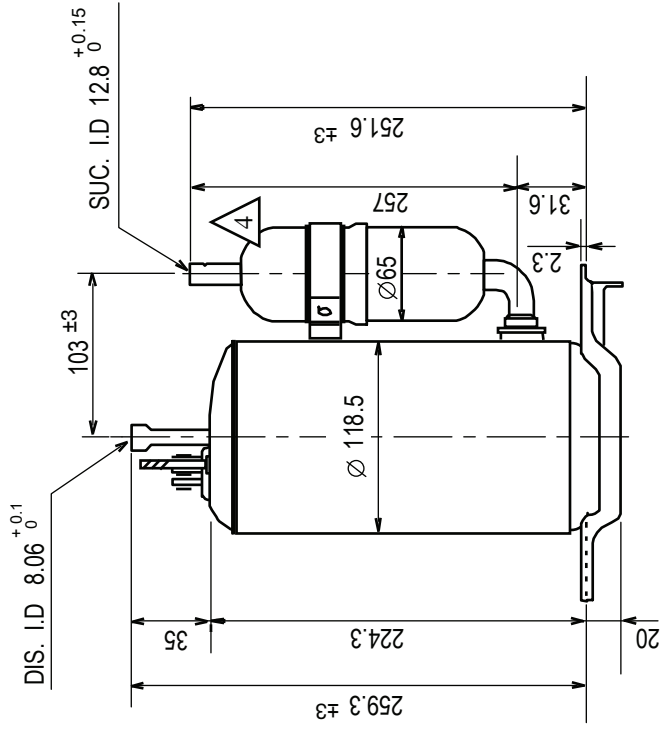
Date	Rev.No.	Description	Ref. NO.	TBZ35258901
'2011. 01.03	1	-Change the Accumulator type (Φ65,L220 → Φ75,L256)	Issued Date	Dec. 10. 2010
'2011. 02.16	4	-Change the Accumulator type (Φ75,,L256 → Φ65,L257) -Change the Distance D/Tube to S/Tube (109 → 103)	Rev. NO.	Rev. 4
			Rev. Date	MAY. 04. 2011



Detail of Discharge Tube Detail of Suction Tube

NOTES

1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : POE(RB68A) or PVE(FVC68D) 330 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION



UNIT	mm	SCALE	N / S	COMP. OUT LINE
DES. ENGR.	CHF. ENGR.			
Dec. 10. 2010	Dec. 10. 2010			GKS094PAB
H. A. YUN	T. Y. NOH			
LG Electronics Inc.	CUSTOMER			
A/C Comp Division	A/C			