1.Specification

1.1 Compressor

1	Compressor Model Name	ARA061YAB
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Scroll Type
4	Displacement	59.8 cm^3 / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	FVC 68D(PVE) 1800cc ± 3%
7	Nitrogen Gas Holding Pressure	0.4 ± 0.2 kg/cm^2G
8	Painting	Black Color Paint
9	Net Weight (Including Oil)	39 kg (86.0 lb)
10	Suction Tube I.D	Ø 22.4 ± 0.1 mm
11	Discharge Tube I.D	Ø 12.9 ± 0.1 mm

1.2 Motor

Motor Type / Starting Type	Three Phase Induction Motor	
Pole / Rated Output	2 Pole / 4400 watts	
Power Source	3 Ph - 380/420volt - 50 Hz	
Rated Revolution	2910 rpm	
Insulation Class	B Class	
Winding Resistance (at 25 °C)	U - V	2.28 ± 7% ohm
	V - W	2.24 ± 7% ohm
	W - U	2.32 ± 7% ohm

1.3 Safety Device

	SPEC	
IPR Valve	Operation Range	Reseal Range
	△38.7~45.7kgf/㎠	-
Deep Vacuum operation	Ps 200~500mmHg	

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1.4 Performance

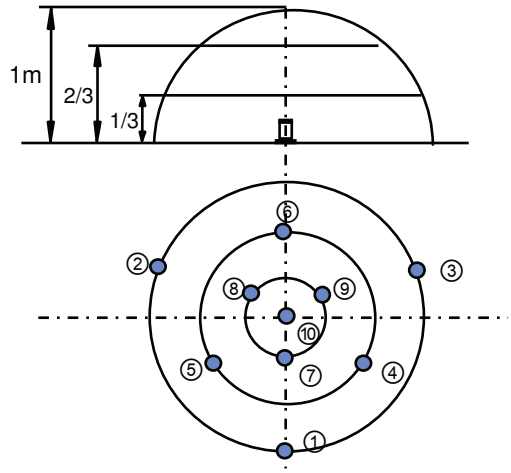
		at 380 volt	at 420 volt
Cooling Capacity (±5%)	[BTU/h]	51,500	52,000
	[W]	15,093	15,240
Power Input (±5%)	[watts]	5,049	5,049
EER (±5%)	[BTU/wh]	10.2	10.3
Running Current	[A]	8.9	8.9
Locked Rotor Ampere	[A]	58	71
Sound Level	[dB(A)]	75 max.	
Vibration	[micron]	50 max.	

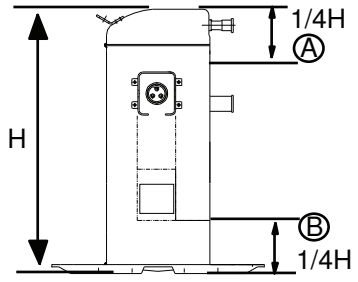
Starting Condition	Specification	Balance Pressure Condition
at Normal Condition	start at 85% of Rated Voltage (323 Volt)	Ps / Pd = 17.14 / 17.14 kg/cm^{2}G
at Overload Condition	start at 90% of Rated Voltage (342 Volt)	Ps / Pd = 19.18 / 19.18 kg/cm^{2}G

※) Rating Conditions

Cond. Temp. : 54.4 ºC (130 ºF)
Evap. Temp. : 7.2 ºC (45 ºF)
Return Gas Temp. : 18.3 ºC (65 ºF)
Liquid Temp. : 46.1 ºC (115 ºF)
Ambient Temp. : 35.0 ºC (95 ºF)

Noise & Vibration Measuring Points





- Compressor sound is measured according to ANSI/ARI 530-89 standard.
- Compressor vibration is measured by a vibration meter which is contacted compressor body's Ⓐ, Ⓑ

1.5 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 kg/cm^{2}G
Insulation Resistance (with 500V D.C Mega Tester)		50 ㏁ Min.
Withstand Voltage		2,200 V- 1 sec. Leakage Current is less than 5 mA.
Residual Moisture / Residual Impurities		200 mg Max. / 80 mg Max.

1.6 Electrical Component

Part Name			Specification
Running Capacitor			-
Overload Protector	Model Name		34HM - 521 (Internal Type)
	RUN	Open.Temp.	130℃ ± 5℃
		Close Temp.	60℃ ± 9℃
	S/T	Amps/Time To Trip(at 25℃)	50A

2.Delivered Parts List

Parts Name	Type (Model)	EA	Parts' Dwg. NO. LG	Supply	
Compressor	ARA061YAB	1	-	(YES)	NO
O.L.P	34HM - 521	1	Internal Type	YES	(NO)
Cover, Terminal	-	1	3550U – E002A	(YES)	NO
Gasket	-	1	4986U - L003A	(YES)	NO
Grommet	-	4	4022U - L004A	(YES)	NO
Grommet,Sleeve	-	4	4816U - L001E	(YES)	NO

※ Refer to Attachments (Accessory Parts Drawings.)
※ O.L.P is the internal type and attached inside of compressor.

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3.Operating Limit

Discharge Pressure	[kg / cm^2 G]	42 Max
Suction Pressure	[kg / cm^2 G]	1.7 ~ 11.0
Motor Coil Temp.	[ºC]	135 Max.
Discharge Temp.	[ºC]	130 ℃ Max.

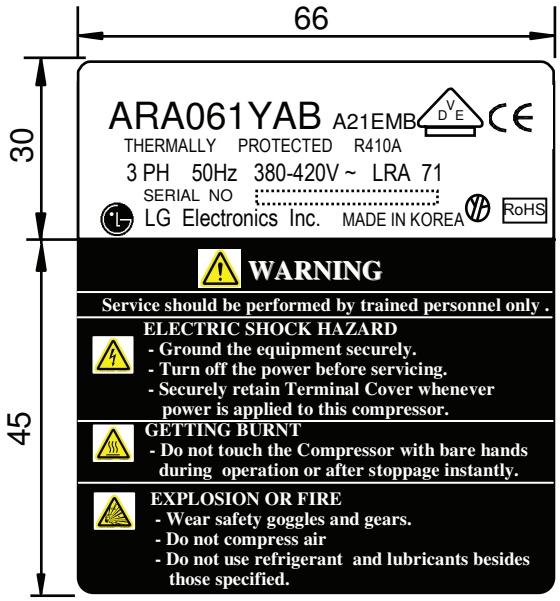
Refrigerant Charge Limit	5,000g Max.
Continuous Flood Back	Continuous Flood Back before the compressor should not be more than 10% of the total circulation quantity of refrigerant.
On/Off Interval & Cycles	On / Off = 3 Minutes / 3 Minutes 100,000 Cycles or less
Voltage Range	Rated Voltage ± 10 %
Frequency Range	Rated Frequency ± 2 %
Compression Ratio in Operating	The Compression ratio in operating shall be 6.7 or less , except 3 minutes starting period.
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 3 º 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 *

[unit : mm]



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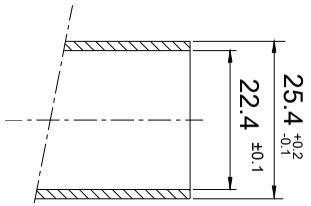
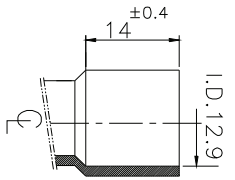
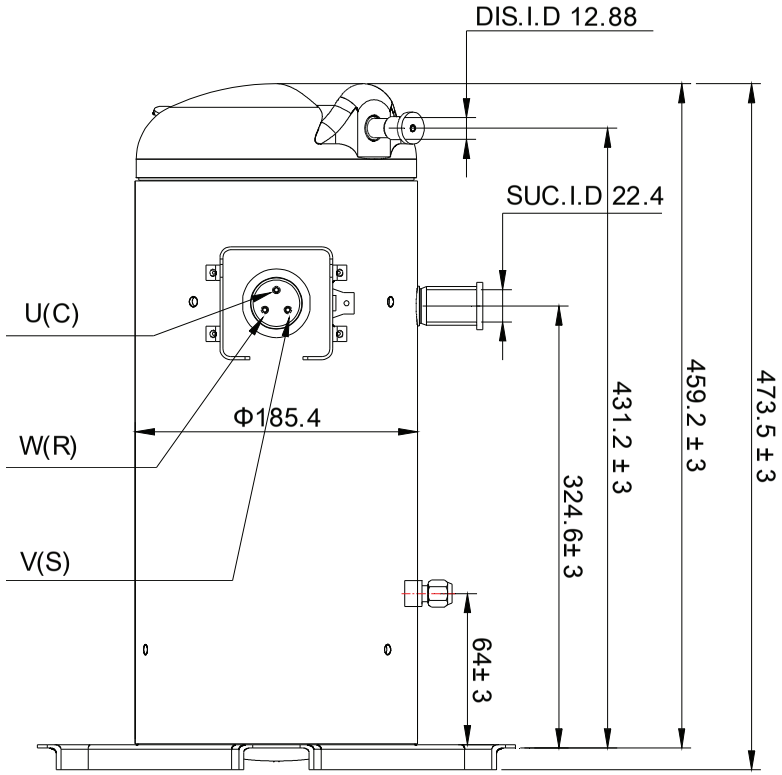
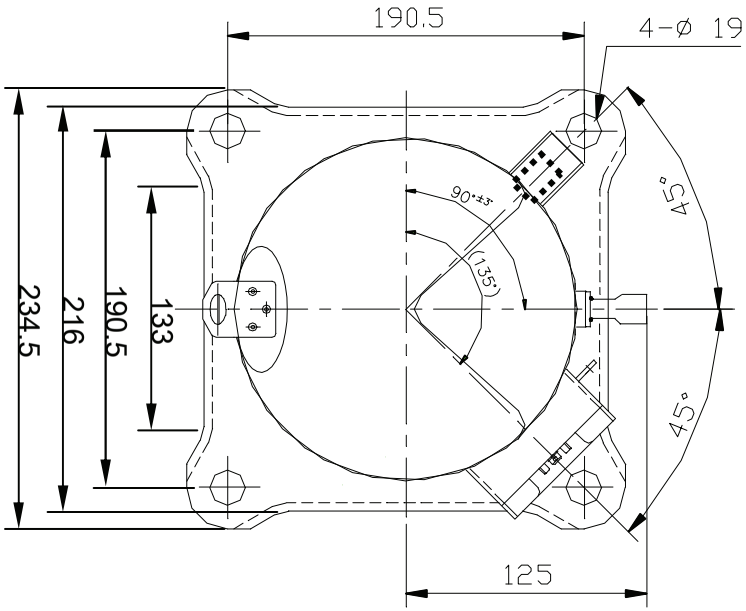


Detail Suction Tube



Detail Discharge Tube





NOTES
1. PAINTING : BLACK PAINT (ELECTRO DEPOSITION)
2. OIL : FVC 68D(PVE) OR EQUIVALENT 1,800 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION

UNIT	mm	SCALE	N / S
DES. ENGR.		CHF. ENGR.	
01 /02 / 07 S. H. JI		01/ 02 / 07 W. H. JEONG	
LG Electronics Inc. CM Division		CUSTOMER EMBRITAL	

COMP. OUT LINE

ARA061YAB

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