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Issued Date	Apr. 13. 2006
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1.Specification

1.1 Compressor

1	Compressor Model Name	AQA042PAA
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Scroll Type
4	Displacement	41.38 cm ³ / rev
5	Refrigerant	R410A
6	Oil / Oil Charging Amount	FVC 68D(PVE) 900 ± 3%
7	Nitrogen Gas Holding Pressure	$0.4 \pm 0.2 \text{ kg/cm}^2\text{G}$
8	Painting	Black Color Paint
9	Net Weight (Including Oil)	27.5 kg (60.6 lb)
10	Suction Tube I.D	Ø 19.2 ± 0.1 mm
11	Discharge Tube I.D	Ø 12.9 ± 0.1 mm

1.2 Motor

Motor Type / Starting Type	Single Phase Induction Motor			
Pole / Rated Output		2 Pole / 2950 watts		
Power Source		1 Ph 220-240volt 50 Hz		
Rated Revolution	2900 rpm			
Insulation Class		B Class		
Winding Resistance	MAIN	0.79 ± 7% ohm		
(at 25 °C)	SUB	2.39 ± 7% ohm		
(at 25 °C)	-			

1.3 Safety Device

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

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1.4 Performance

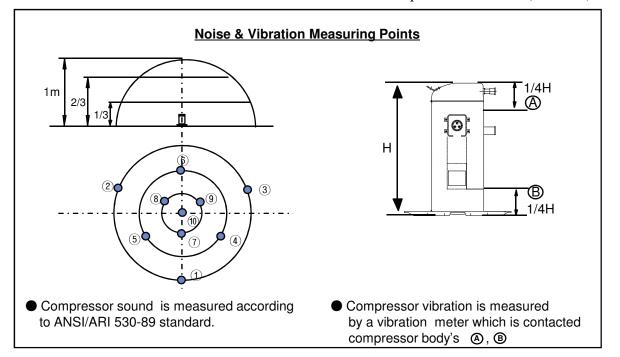
		at 220 volt	at 240 volt
Cooling Capacity (±5%)	[BTU/h]	34,750	34,800
	[W]	8,734	8,763
Power Input (±5%)	[watts]	3,736	3,910
EER (±5%)	[BTU/wh]	9.3	8.9
Running Current	[A]	18.0	18.0
Locked Rotor Ampere	[A]		86
Sound Level	[dB(A)]	74	max.
Vibration	[micron]	50	max.

Starting Condition	Specification	Balance Pressure Condition
at Normal Condition start at 85% of Rated Voltage (187 Volt)		$Ps / Pd = 17.14 / 17.14 \text{ kg/cm}^2G$
at Overload Condition	start at 90% of Rated Voltage (198 Volt)	$Ps / Pd = 19.18 / 19.18 \ kg/cm^2G$

ℜ) Rating Conditions

Cond. Temp.	:	54.4 °C (130 °F)
Evap. Temp.	:	7.2 °C (45 °F)

Return Gas Temp.	:	18.3 °C (65 °F)
Liquid Temp.	:	46.1 °C (115 °F)
Ambient Temp.	:	35.0 °C (95 °F)



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1.5 Others

Leak Tight Pressure	High Pressure Side	$40 \text{ kg/cm}^2\text{G}$
	Lower Pressure Side	- kg/cm^2G
Hydrostatic Strength	High Pressure Side	$170 \text{ kg/cm}^2\text{G}$
Pressure	Lower Pressure Side	$80 \text{ kg/cm}^2\text{G}$
Insulation Resistance (with 500V D.C Mega Tester)		50 MΩ 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		Part Name	Specification	
Running Capacitor		ning Capacitor	60 MFD / 440 VAC	
		Model Name	15HM - 2438 (Internal Type)	
Overload	DUN	Open.Temp.	150°C ± 5°C	
Protector	RUN	Close Temp.	69°C ± 9°C	
	U/T	Amps (at 70°C)	36.4A	

2.Delivered Parts List

Parts Name	Type (Model)	EA	Parts' Dwg. NO.	Supply	
	Type (Woder)		LG		
Compressor	AQA042PAA	1	-	YES	NO
O.L.P	—	1	Internal Type	YES	NO
Cover, Terminal	_	1	3550U - D002B	(YES)	NO
Gasket	—	1	4986U - L002E	(YES)	NO
Grommet	—	4	4022U - L004A	(YES)	NO
Grommet,Sleeve	-	4	4816U - L001E	YES	NO

 $\ref{eq: constraints}$ Refer to Attachments (Accessory Parts Drawings.)

 \times 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.	[°C]	135 Max.
Discharge Temp.	[°C]	130 °C Max.

Refrigerant Charge Limit	2,500g 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° or less	

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