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| Ref. No. | LGACC-090213-042 |
| Issued Date | Feb. 13. 2009 |
| Rev. No. | REV. 0 |
| Rev. Date | - |

1.Specification

1.1 Compressor

| | |
|-------------------------------|----------------------------------|
| Compressor Model Name | GPT330PAA |
| Compressor Type | Hermetic Motor Compressor |
| Compression Type | Rotary (2 Piston Type) |
| Displacement | 33.0 cm ³ / rev |
| Refrigerant | R410A |
| Oil / Oil Charging Amount | FVC68D(PVE) / 1200 ±10 cc |
| Nitrogen Gas Holding Pressure | 0.8 ± 0.2 kg / cm ² G |
| Painting | Black Color Paint |
| Net Weight (Including Oil) | 25. 0 kg |
| Suction Tube I.D. | Φ 16.0 |
| Discharge Tube I.D. | Φ 9.7 |

1.2 Motor

| | | |
|--------------------------------|------------------------------------|----------------|
| Motor Type / Starting Type | Single Phase Induction Motor / PSC | |
| Pole / Rated Output | 2 Pole / 2,080 watts | |
| Power Source | 1 Ph 220-240 volt 50 Hz | |
| Rated Revolution | 2,870/2,890 rpm | |
| Insulation Class | E Class | |
| Winding Resistance at 25 °C | Main | 1.20 ± 7% ohms |
| | Sub | 1.76 ± 7% ohms |

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1.3 Performance

| | | at 220 V | at 240 V |
|--------------------------|------------|----------|-------------|
| Cooling Capacity (±5%) | [BTU/h] | 28,300 | 28,500 |
| | [watts] | 8,294 | 8,353 |
| Power Input (±5%) | [watts] | 2,748 | 2,850 |
| EER (±5%) | [BTU/Whr] | 10.3 | 10.0 |
| Running Current | [A] | 12.5 | 12.1 |
| Locked Rotor Ampere | [A] | - | 64 |
| Sound Level | [dB(A)] | | 77 Max |
| Vibration | [gal] | | 1,000 gal ↓ |

1.4 Voltage Range

| Starting Condition | Specification | Pressure Condition |
|-----------------------|--|---|
| at Normal Condition | start at 85% of Rated Voltage (187 Volt) | Ps / Pd = 9.12 / 33.45 kg/cm ² G |
| at Overload Condition | start at 90% of Rated Voltage (198 Volt) | Ps / Pd = 10 / 42 kg/cm ² G |

※) Rating Conditions

| | |
|----------------------------------|--------------------------------------|
| Cond. Temp. : 54.4 °C (130 °F) | Return Gas Temp. : 35.0 °C (95 °F) |
| Evap. Temp. : 7.2 °C (45 °F) | Liquid Temp. : 46.1 °C (115 °F) |
| | Ambient Temp. : 35.0 °C (95 °F) |

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1.6 Electrical Component

| Part Name | Specification |
|--------------------|------------------|
| Running Capacitor | 60 MFD / 440 VAC |
| Overload Protector | INTERNAL |

2. Delivered Parts List

| Parts Name | Type (Model) | Q'ty | Parts Dwg. NO. | Supply | |
|---------------------|----------------|------|----------------|--------------------------------------|-------------------------------------|
| Compressor | GPT330PAA | 1 | TBZ34637101 | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| O.L.P | INTERNAL | 1 | - | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| Cover, Terminal | - | 1 | 3550U - L005B | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| Gasket | - | 1 | 4986U - L004A | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| Nut, Hexagon Flange | - | 1 | 1NFZU - L001A | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| Washer, Plain Cover | - | 1 | 1WPZU - L001A | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| Grommet | - | 3 | 4022U - L005B | <input checked="" type="radio"/> YES | <input type="radio"/> NO |
| Bolt, Stud | - | 3 | 1BSZU - L002B | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| Washer, Plain | - | 3 | 1WPZU - L003A | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| Nut, Hexagon | - | 3 | 1NHZU - L001A | <input type="radio"/> YES | <input checked="" type="radio"/> NO |
| Capacitor | - | 1 | -- | <input type="radio"/> YES | <input checked="" type="radio"/> NO |

※) Refer to attached drawings

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3.Operating Limit

| | | |
|--------------------|-----------------------------|------------|
| Discharge Pressure | [kgf / cm ² G] | 42.0 Max. |
| Suction Pressure | [kgf / cm ² G] | 4.0 ~ 12.0 |
| Discharge Temp. | [°C] | 115 Max. |
| Motor Coil Temp. | [°C] | 135 Max. |

| | |
|--|--|
| Refrigerant Charge Limit | <p>[Cooling Only] 2,950g Max. (*K≥0.4, **Oil Dilution Rate=0.25) *Must apply the accumulator in effective volume 990cc to use a GPT330PAA.A21EMB</p> <p>[Heat Pump] 2,000g Max. (*K≥0.6, **Oil Dilution Rate=0.25) *Must apply the accumulator in effective volume 990cc to use a GPT330PAA.A21EMB</p> <p>[Heat Pump Maximum Charge] 2,250g Max. *Must check oil level test and get lowest oil level at least to use Max. 2,250g with a GPT330PAA.A21EMB</p> |
| 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 / cm ² Max. |
| Fan Motor in Application | <ul style="list-style-type: none"> • 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 MPa. |
| Tilt in Operation | The allowable tilt of the compressor in operation shall be 5° or less. |