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|  INVOTECH | Invotech Scroll Compressor Specification |
| Comp Model | Semi-Hermetic Air-condition Used Comp YSH400T1G-100 |

*1 Compressor Basic Performance Specification

| | |
|---|-----------------------------------|
| Model | YSH400T1G-100 |
| Refrigerant | R407C |
| Cap (W) ^(a) | 37920 |
| Displacement(m ³ /h) | 37.7 |
| Power Input (W) ^(a) | 11734 |
| Running Current (A) ^(a) | 20.4 |
| Coefficient Of Performance (COP) ^(a) | 3.23 |
| Rated Voltage (V) | 380V |
| Phase/Hertz | 3P/50Hz |
| Lowest Running Voltage (V) | 342 |
| Highest Running Voltage (V) | 418 |
| Lock Rotor Current (A) | 148.5 |
| Highest Running Current (A) ^(b) | 27.7 |
| Motor Speed (R/Min) ^(c) | 2900 |
| Comp Weight With Oil (Kg) | 90 |
| Oil | POE (Coefficient Of Viscosity 32) |
| Oil Charge (First Charge, L) | 3.20 |
| (Recharge, L) | 3.00 |
| Lowest Voltage Start (V) ^(d) | 323 |
| MOV (V) ^(e) | 342 |
| Motor Insulation Temperature | 130°C |
| Resistance @ 25 °C Ambient (Ω) | 0.7(± 10%) |
| Insulation Voltage (V) | 2000 |
| Leakage Current (mA) | <5 |
| Insulation Resistance (mΩ) | >20 |
| Ground Resistance (Ω) | <0.1 |
| Oil Circulation (%) ^(f) | Less Than 2% |
| Sound (Sound Power) ^(g) | 75 |
| Maximum Vib (mm, Peak-Peak) ^(h) | <0.12 |
| Maximum Moisture (mg) | < 500 |
| Maximum Impurity (mg) | < 100 |
| Highest Running Pressure | |
| High Side (Mpa) | 3.0 |
| Low Side (Mpa) | 2.0 |

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NOTES:

- a) Test Condition: First Rated Running Point
- b) Test Condition: ET 11.9°C, CT 65.5°C, Running @ 90% Rated Voltage
- c) Test Condition: 380V, 50Hz, First Rated Running Point
- d) Discharge Pressure / Suction Pressure = Refrigerant Saturation Pressure @40°C (Absolute Pressure)
- e) Test Condition: Suction Pressure / Discharge Pressure = Refrigerant Saturation Pressure @11.9 °C / Refrigerant Saturation Pressure @65.5°C, Superheat 11.9°C, Sub cooling 8.3°C
- f) Mass Flow Under First Rated Point
- g) Running @ First Rated Running Point, Average Of Sound Power, Maximum Sound Power Is Less Than 80 dB(A)
- h) Running @ First Rated Running Point, Maximum Displacement Under Normal Direction When Compressor Running

*2 Standard Configuration:

- Ground Screw
- Suction Fitting And Discharge Fitting connected by high pressure stop valve
- Square Terminal Box Cover
- Without Liquid Injection Nor Vapour Injection
- With Oil Sight Glass
- Mount Kits (4 Sets)

*3 Test Condition (380V, 50 HZ), Capacity And COP Is No Less Than 95% Normal Specification, Power And Current Is No More Than 105% Normal Specification (Performance And Sound Test Need 24hrs Break In Running At Max Load Running Condition ^(e))

| Seq | Parameter | First Rated Running Point |
|-----|---------------|---------------------------|
| 1 | Evaporating T | 7.2 °C |
| 2 | Condensing T | 54.4 °C |
| 3 | Ambient T | 35.0 °C |
| 4 | Return Gas T | 18.3 °C |
| 5 | Superheat K | 11.1 |
| 6 | Subcooling K | 8.3 |

*4 Internal Protection Parts

- Internal Motor Protector
- Internal Pressure Release Valve



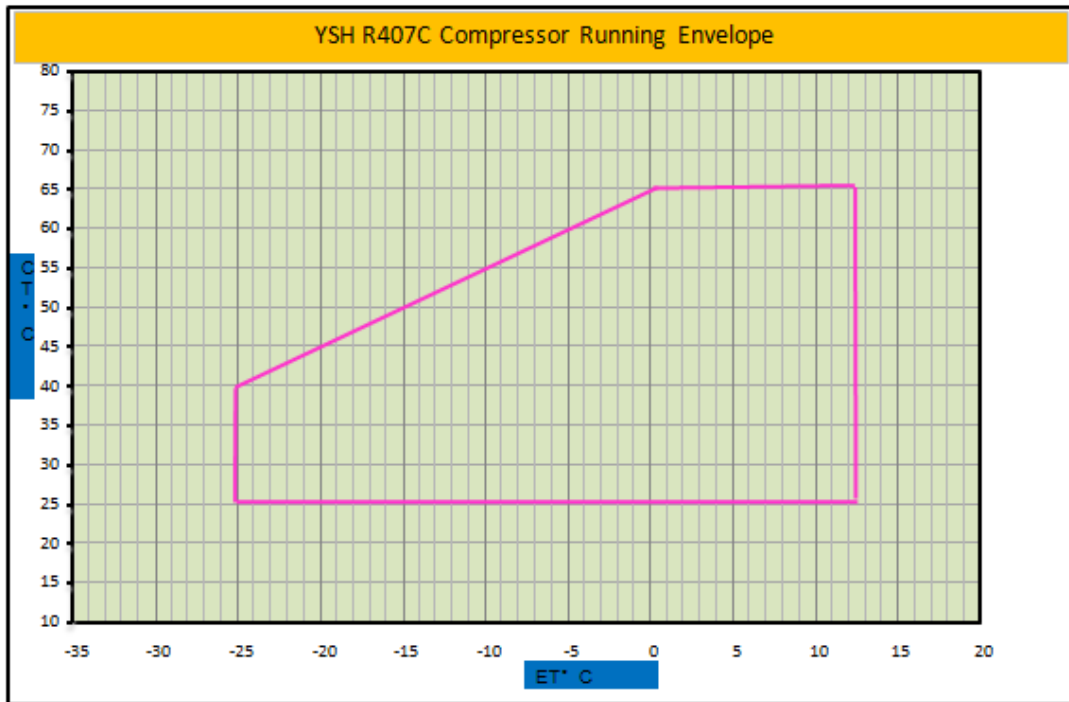
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Pressure Release Valve Open Range: 2.76--3.10Mpa

*5 Compressor Running Envelope

Compressor Running @ 11.1°C Superheat, 8.3°C Subcooling



*6 Compressor Performance Data Sheet

| Invotech YSH400T1G-100 Compressor Performance Sheet | | | | | | | | |
|---|----|-------|-------|-------|-------|-------|-------|-------|
| | 工况 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cap W | 65 | | | | | 27762 | 30126 | 36435 |
| | 55 | | | 19934 | 23848 | 29238 | 35291 | 41868 |
| | 50 | | 17218 | 20854 | 25634 | 31238 | 37537 | 44060 |
| | 45 | 14758 | 17945 | 22297 | 27484 | 33238 | 39697 | 46199 |
| | 40 | 15346 | 19121 | 23663 | 28928 | 34938 | 41333 | 48391 |
| | 35 | 16330 | 20308 | 25078 | 30543 | 36467 | 42959 | 50584 |
| | 25 | 17817 | 22019 | 26447 | 32403 | 38189 | 45461 | 52508 |
| Power W | 65 | | | | | 15098 | 15228 | 15358 |
| | 55 | | | 11967 | 12062 | 12109 | 12215 | 12298 |
| | 50 | | 10514 | 10668 | 10810 | 10857 | 11022 | 11117 |
| | 45 | 9345 | 9416 | 9593 | 9640 | 9758 | 9817 | 10136 |
| | 40 | 8305 | 8506 | 8553 | 8671 | 8813 | 8825 | 9167 |
| | 35 | 7338 | 7502 | 7714 | 7844 | 7908 | 8069 | 8342 |
| | 25 | 6285 | 6498 | 6757 | 6911 | 7206 | 7242 | 7336 |

Cap. And Power Data in Grey-green Area Is Tested @ 11.1°C Superheat, 8.3°C subcooling
X-axis Ordinate Is Evaporating T (°C), Y-axis Ordinates Is Condensing T (°C)



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Comp Model

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*7 Compressor Outline Dimensions

