



Invotech Scroll Compressor Specification

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|------------|-------------------------------------|
| Comp Model | Air-condition Used Comp YH230T1-100 |
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*1 Compressor Basic Performance Specification

| | |
|---|-----------------------------------|
| Model | YH230T1-100 |
| Refrigerant | R407C |
| Cap (W) ^(a) | 22180 |
| Displacement(m ³ /h) | 21.4 |
| Power Input (W) ^(a) | 6770 |
| Running Current (A) ^(a) | 12.9 |
| Coefficient Of Performance (COP) ^(a) | 3.28 |
| Rated Voltage (V) | 380V |
| Phase/Hertz | 3P/50Hz |
| Lowest Running Voltage (V) | 342 |
| Highest Running Voltage (V) | 418 |
| Lock Rotor Current (A) | 117 |
| Highest Running Current (A) ^(b) | 17.6 |
| Motor Speed (R/Min) ^(c) | 2900 |
| Comp Weight With Oil (Kg) | 53 |
| Oil | POE (Coefficient Of Viscosity 32) |
| Oil Charge (First Charge, L) | 2.70 |
| (Recharge, L) | 2.60 |
| Lowest Voltage Start (V) ^(d) | 323 |
| MOV (V) ^(e) | 342 |
| Motor Insulation Temperature | 130°C |
| Resistance @ 25 °C Ambient (Ω) | 1.09(± 10%) |
| Insulation Voltage (V) | 2000 |
| Leakage Current (mA) | <5 |
| Insulation Resistance (mΩ) | >20 |
| Ground Resistance (Ω) | <0.1 |
| Oil Circulation (%) ^(f) | Less Than 1% |
| Sound (Sound Power) ^(g) | 73 |
| 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 78 dB(A)
- h) Running @ First Rated Running Point, Maximum Displacement Under Normal Direction When Compressor Running

***2 Standard Configuration:**

- Ground Screw
- Welding Suction Fitting And Discharge Fitting
- Square Terminal Box Cover
- Without Liquid Injection Nor Vapour Injection
- Without 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

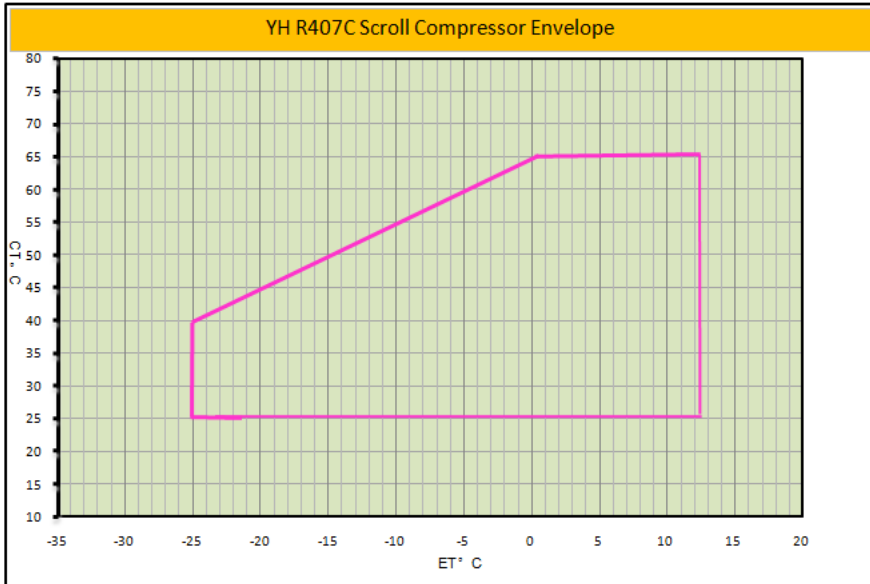


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Pressure Release Valve Open Range: 3.97--4.31Mpa

*5 Compressor Running Envelope



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

*6 Compressor Performance Data Sheet

| Invotech Scroll YH230T1-100 Compressor Performance Sheet | | | | | | | | |
|--|----|-------|-------|-------|-------|-------|-------|-------|
| | 工况 | -20 | -15 | -10 | -5 | 0 | 5 | 10 |
| Cap W | 65 | | | | | 16146 | 17521 | 21191 |
| | 55 | | | 11594 | 13870 | 17005 | 20525 | 24350 |
| | 50 | | 10014 | 12128 | 14909 | 18168 | 21831 | 25625 |
| | 45 | 8583 | 10437 | 12968 | 15985 | 19331 | 23088 | 26869 |
| | 40 | 8925 | 11121 | 13762 | 16824 | 20320 | 24039 | 28144 |
| | 35 | 9498 | 11811 | 14585 | 17764 | 21209 | 24985 | 29419 |
| | 25 | 10362 | 12806 | 15381 | 18846 | 22211 | 26440 | 30539 |
| Power W | 65 | | | | | 8781 | 8857 | 8932 |
| | 55 | | | 6960 | 7015 | 7043 | 7104 | 7153 |
| | 50 | | 6115 | 6204 | 6287 | 6314 | 6410 | 6465 |
| | 45 | 5435 | 5476 | 5579 | 5607 | 5675 | 5710 | 5895 |
| | 40 | 4830 | 4947 | 4974 | 5043 | 5126 | 5133 | 5332 |
| | 35 | 4267 | 4363 | 4487 | 4562 | 4599 | 4693 | 4852 |
| | 25 | 3655 | 3779 | 3930 | 4019 | 4191 | 4212 | 4267 |

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)