
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Air-condition Used Comp YH150T1-100

*1 Compressor Basic Performance Specification

Model	YH150T1-100
Refrigerant	R407C
Cap (W) ^(a)	14400
Power Input (W) ^(a)	4410
Running Current (A) ^(a)	8.40
Capacity Over Power (COP) ^(a)	3.27
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A) ^(a)	60.0
Highest Running Current (A) ^(b)	11.6
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	31
Oil	3GS (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	1.40
(Recharge, L)	1.25
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	2.45(± 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)	69
Maximum Vib (mm, Peak-Peak) ^(h)	<0.10
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 19.9°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 @ ARI Condition, Average Of Sound Power, Maximum Sound Power Is Less Than 74 dB(A)
- h) Running @ ARI Condition, 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 Allowed Normal Specification Tolerance Is - 5%, Power And Current Allowed Normal Specification Tolerance Is + 5% (Performance And Sound Test after 20hrs Break-In-Run)**

Seq	Parameter	First Rated Running Point	Second Rated Running Point
1	Evaporating T	7.2 °C	7.2 °C
2	Condensing T	54.4 °C	47.2 °C
3	Ambient T	35.0 °C	35.0 °C
4	Return Gas T	18.3 °C	18.3 °C
5	Superheat K	11.1	11.1
6	Subcooling K	8.3	8.3

***4 Internal Protection Parts**

- Internal Motor Protector



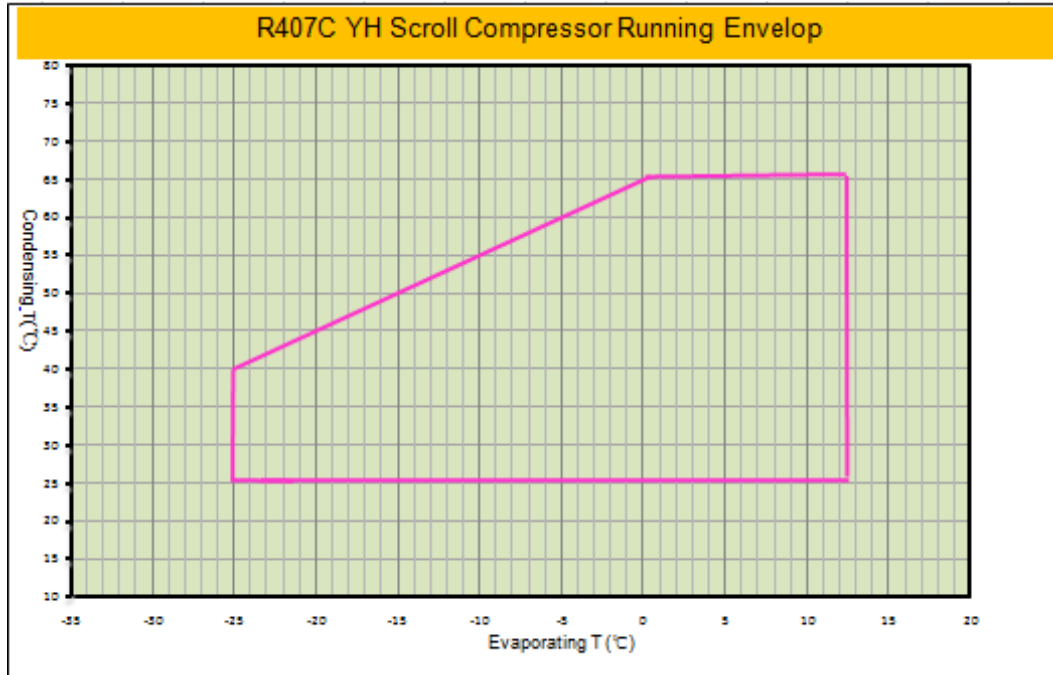
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- Internal Pressure Release Valve
Pressure Release Valve Open Range: 2.76--3.10Mpa

*5 Compressor Running Envelope

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



*6 Compressor Performance Data Sheet

Invotech YH150T1-100 Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
Capacity W	65					9559	12029	14521
	55			8007	9359	11163	13340	16272
	50		6309	8250	9874	11771	14268	17086
	45	5596	6712	8433	10405	12396	14914	17886
	40	5792	7114	8959	10930	13012	15540	18604
	35	5988	7516	9486	11455	13628	16166	19322
	25	6183	7919	9654	12426	14730	17254	18968
Power W	65					5354	5166	5168
	55			4314	4344	4539	4452	4385
	50		3813	3913	4079	4254	4125	4093
	45	3417	3476	3700	3843	3945	3773	3779
	40	3174	3275	3471	3604	3677	3540	3573
	35	2931	3074	3242	3365	3410	3307	3367
	25	2450	2622	2814	2965	3052	2959	2902

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)