




Invotech Scroll Compressor Specification

Comp Model	Air-Condition Used Comp YH128T2-100
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*1 Compressor Basic Performance Specification

Model	YH128T2-100
Refrigerant	R407C
Cap(W) ^(a)	12290
Power Input (W) ^(a)	3870
Running Current (A) ^(a)	18.4
COP ^(a)	3.18
Rated Voltage (V)	220V
Phase/Hz	1 P/50 HZ
Lowest Running Voltage (V)	198
Highest Running Voltage (V)	242
Lock Rotor Current(A)	109
Highest Running Current (A) ^(b)	26.3
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	33
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	1.40
(Recharge, L)	1.25
Lowest Voltage Start (V) ^(d)	187
MOV (V) ^(e)	198
Motor Insulation Temperature	130°C
Resistance CR (Ω) @ 25 °C	0.5(± 10%)
Resistance RS (Ω) @ 25 °C	1.8(± 10%)
Resistance SC (Ω) @ 25 °C	1.3(± 10%)
Starting Capacitor(uf)	250
Starting Capacitor(V)	No less than 330
Potential Relay	HLR3800-3H3D
Running Capacitor (uf)	80
Running Capacitor Voltage(V)	No less than 450
Insulation And Voltage Resistance (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
Maximal Vib (mm,Peak-Peak) ^(h)	<0.09
Maximal Moisture (mg)	< 500

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Maximal Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	3.0
Low Side (Mpa)	2.0

Instruction For Performance Specification Running Condition

- a) Test Condition: First Rated Running Point
- b) Test Condition: ET:11.9C, CT:65.5C, Running Voltage @ 90% Rated Voltage
- c) Test Condition: 220V, 50HZ, First Rated Running Point
- d) Discharge Pressure / Suction Pressure= Refrigerant Saturation Pressure @ 40C (Absolute Pressure) .
- e) Test Condition: Suction Pressure / Discharge Pressure = Refrigerant Saturation Pressure @11.9 C / Refrigerant Saturation Pressure @65.5 C, Superheat 11.9C, Sub cooling 8.3C
- f) Mass Flow Under First Rated Point
- g) First Rated Running Condition, Average Of Sound Power, Maximal Sound Power Is Less Than 74dB.
- h) First Rated Running Condition, Maximal Displacement Under Normal Direction When Compressor Running

*2 Standard Configuration:

- Ground Screw
- Welded Suction Fitting And Discharge Fitting
- Square Terminal Box Cover
- Without Liquid Injection and Without Vapour Injection
- Without Oil Sight Glass
- Mount Kits(4 Sets)

*3 Test Condition (220V, 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 72hrs Break In Running At Max Load Running Condition^(e))

Seq	Parameter	First Rated Running Point
1	Evaporating T	7.2
2	Condensing T	54.4
3	Ambient T	35.0
4	Return Gas T	18.3
5	Superheat K	11.1



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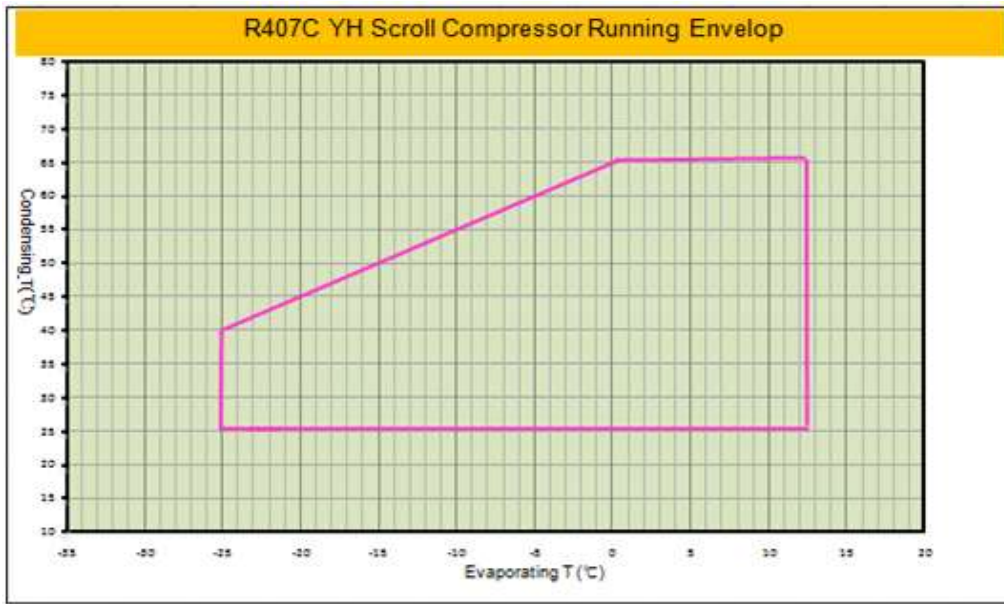
6	Sub cooling K	8.3
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*4 Internal Protection Parts

- Internal Protector Protection

*5 Compressor Running Envelop

In This Envelop, All Of The Test Condition Under The 11.1°C Superheat, 8.3°C Subcooling.



*6 Compressor Performance Sheet

Invotech Scroll Compressor YH128T2-100 Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
Cap w	65					8157	10264	12391
	55			6833	7987	9525	11383	13886
	50		5384	7040	8426	10045	12175	14580
	45	4775	5727	7196	8879	10578	12727	15262
	40	4942	6071	7645	9327	11103	13261	15875
	35	5109	6414	8094	9775	11629	13795	16488
	25	5277	6757	8238	10603	12569	14723	16186
Power w	65					4359	4497	4660
	55			3755	3773	3824	3875	3951
	50		3318	3406	3415	3503	3590	3703
	45	2974	3026	3221	3035	3159	3284	3434
	40	2763	2851	3022	2893	2987	3081	3201
	35	2551	2676	2822	2750	2814	2878	2968
	25	2132	2282	2450	2466	2521	2576	2656

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)