
	InvoTech Scroll Compressor Specifications
Model	YH140T1-100

\*1 Compressor Basic Performance Specifications

Model	YH140T1-100
Refrigerant	R407C
Cap (W) <sup>(a)</sup>	13440
Power Input (W) <sup>(a)</sup>	4130
Running Current (A) <sup>(a)</sup>	8.0
Coefficient Of Performance (COP) <sup>(a)</sup>	3.25
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	60.0
Highest Running Current (A) <sup>(b)</sup>	11.1
Motor Speed (R/Min) <sup>(c)</sup>	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) <sup>(d)</sup>	323
MOV (V) <sup>(e)</sup>	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 (%) <sup>(f)</sup>	Less Than 1%
Sound (Sound Power) <sup>(g)</sup>	69
Maximum Vib (mm, Peak-Peak) <sup>(h)</sup>	<0.10
Maximum Moisture (mg)	< 500
Maximum Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	3.0
Low Side (Mpa)	2.0

 <b>INVOTECH</b>	<b>InvoTech Scroll Compressor Specifications</b>
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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 74 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 <sup>(e)</sup>)**

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	Sub cooling K	8.3

**\*4 Internal Protection Parts**

- Internal Motor Protector
- Internal Pressure Release Valve

Pressure Release Valve Open Range: 2.76--3.10Mpa

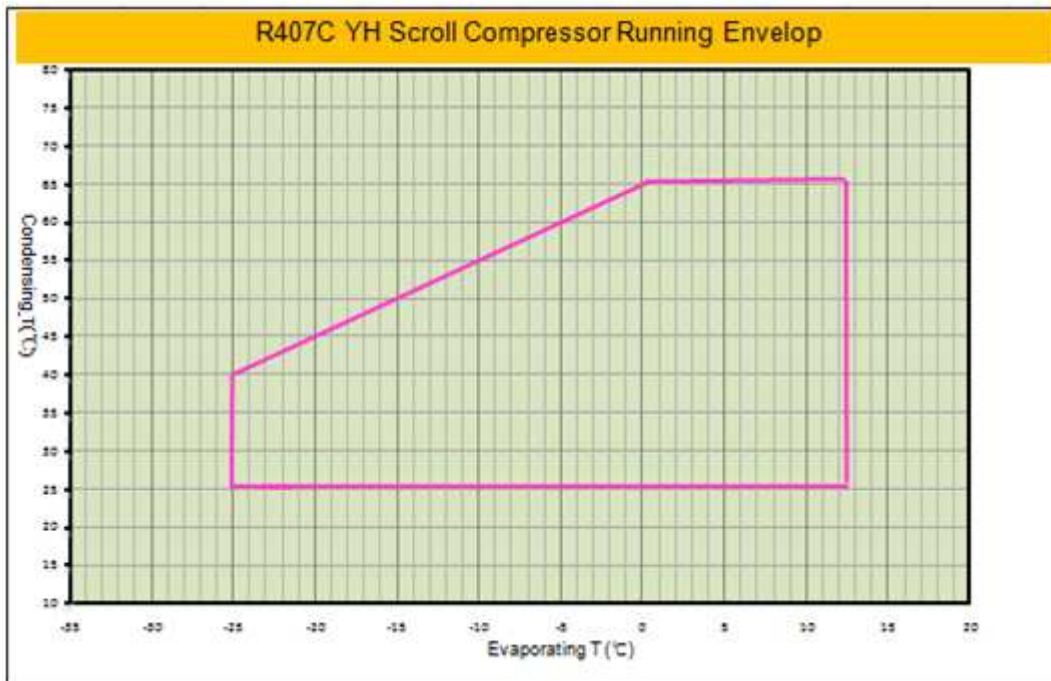


# Invotech Scroll Compressor Specifications

Model	YH140T1-100
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## \*5 Compressor Running Envelope

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



## \*6 Compressor Performance Data Sheet

Invotech YH140T1-100 Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
Capacity W	65					8922	11227	13553
	55			7473	8735	10418	12450	15187
	50		5889	7700	9216	10987	13317	15947
	45	5223	6264	7871	9711	11570	13920	16693
	40	5406	6640	8362	10201	12144	14504	17364
	35	5588	7015	8853	10691	12719	15088	18034
	25	5771	7391	9011	11597	13748	16104	17703
Power W	65					4997	4822	4823
	55			4026	4055	4237	4155	4093
	50		3558	3652	3807	3971	3850	3820
	45	3189	3244	3454	3587	3682	3521	3527
	40	2962	3057	3240	3364	3432	3304	3335
	35	2735	2869	3026	3141	3182	3086	3142
	25	2286	2447	2627	2768	2848	2762	2709

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)