
 <b>INVOTECH</b>	<b>InvoTech Scroll Compressor Specifications</b>
<b>Model</b>	<b>Air-condition Used Comp YH119T1-100</b>

\*1 Compressor Basic Performance Specifications

Model	YH119T1-100
Refrigerant	R407C
Cap (W) <sup>(a)</sup>	11420
Power Input (W) <sup>(a)</sup>	3550
Running Current (A) <sup>(a)</sup>	7.1
Capacity Over Power (COP) <sup>(a)</sup>	3.22
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A) <sup>(a)</sup>	60.0
Highest Running Current (A) <sup>(b)</sup>	9.7
Motor Speed (R/Min) <sup>(c)</sup>	2900
Comp Weight With Oil (Kg)	31
Oil	POE
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

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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, Subcooling 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
- Internal Pressure Release Valve

Pressure Release Valve Open Range: 2.76--3.10Mpa



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## \*5 Compressor Running Envelop

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



## \*6 Compressor Performance Data Sheet

Invotech Scroll Compressor YH119T1-100 Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
Cap w	65					7581	9540	11516
	55			6350	7423	8853	10580	12906
	50		5004	6543	7831	9336	11316	13551
	45	4438	5323	6688	8252	9831	11829	14185
	40	4593	5642	7106	8669	10320	12325	14755
	35	4749	5961	7523	9085	10808	12821	15325
	25	4904	6280	7657	9855	11682	13684	15043
Power w	65					4048	4179	4331
	55			3490	3500	3550	3601	3672
	50		3084	3166	3167	3252	3337	3442
	45	2764	2812	2994	2814	2933	3052	3191
	40	2568	2649	2808	2682	2773	2864	2975
	35	2371	2487	2623	2549	2612	2675	2758
	25	1982	2121	2277	2285	2339	2394	2469

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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## \*7 Compressor Outline Dimensions

