



Invotech Scroll Compressor Specification

Comp Model	Air-condition Used Comp YH355T1-100
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*1 Compressor Basic Performance Specification

Model	YH355T1-100
Refrigerant	R407C
Cap (W) ^(a)	34080
Displacement(m ³ /h)	32.9
Power Input (W) ^(a)	10240
Running Current (A) ^(a)	17.8
Coefficient Of Performance (COP) ^(a)	3.33
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	121
Highest Running Current (A) ^(b)	25.3
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	54
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)	1.06(± 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)	75
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 80 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

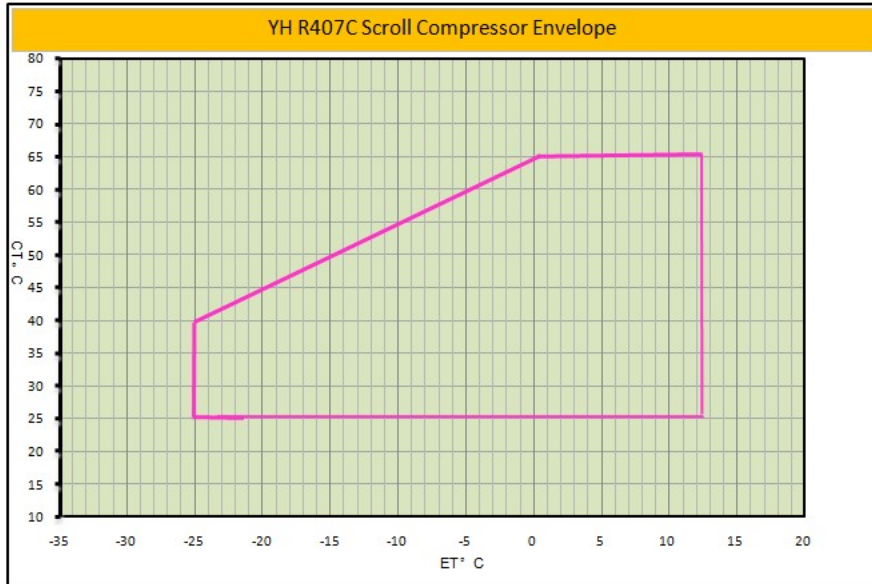


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Pressure Release Valve Open Range: 2.76--3.10Mpa

*5 Compressor Running Envelope



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

*6 Compressor Performance Data Sheet

Invotech Scroll YH355T1-100 Compressor Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
Cap W	65					24922	27043	32707
	55			17894	21408	26246	31680	37584
	50		15456	18720	23011	28042	33696	39552
	45	13248	16109	20016	24672	29837	35635	41472
	40	13776	17165	21242	25968	31363	37104	43440
	35	14659	18230	22512	27418	32736	38563	45408
	25	15994	19766	23741	29088	34282	40810	47136
Power W	65					12908	13019	13130
	55			10231	10312	10353	10443	10514
	50		8989	9120	9242	9282	9423	9504
	45	7989	8050	8201	8242	8343	8393	8666
	40	7100	7272	7312	7413	7535	7545	7838
	35	6273	6414	6595	6706	6761	6898	7132
	25	5373	5555	5777	5909	6161	6191	6272

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)