
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Semi-Hermetic Air-condition Used Comp YSH450T1G-100

*1 Compressor Basic Performance Specification

Model	YSH450T1G-100
Refrigerant	R407C
Cap (W) ^(a)	41856
Displacement(m ³ /h)	42.5
Power Input (W) ^(a)	13145
Running Current (A) ^(a)	22.8
Coefficient Of Performance (COP) ^(a)	3.18
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	148.5
Highest Running Current (A) ^(b)	31.6
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	90
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	3.20
(Recharge, L)	3.00
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	0.7(± 10%)
Insulation Voltage (V)	2000
Leakage Current (mA)	<5
Insulation Resistance (mΩ)	>20
Ground Resistance (Ω)	<0.1
Oil Circulation (%) ^(f)	Less Than 2%
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
- Suction Fitting And Discharge Fitting connected by high pressure stop valve
- Square Terminal Box Cover
- Without Liquid Injection Nor Vapour Injection
- With 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



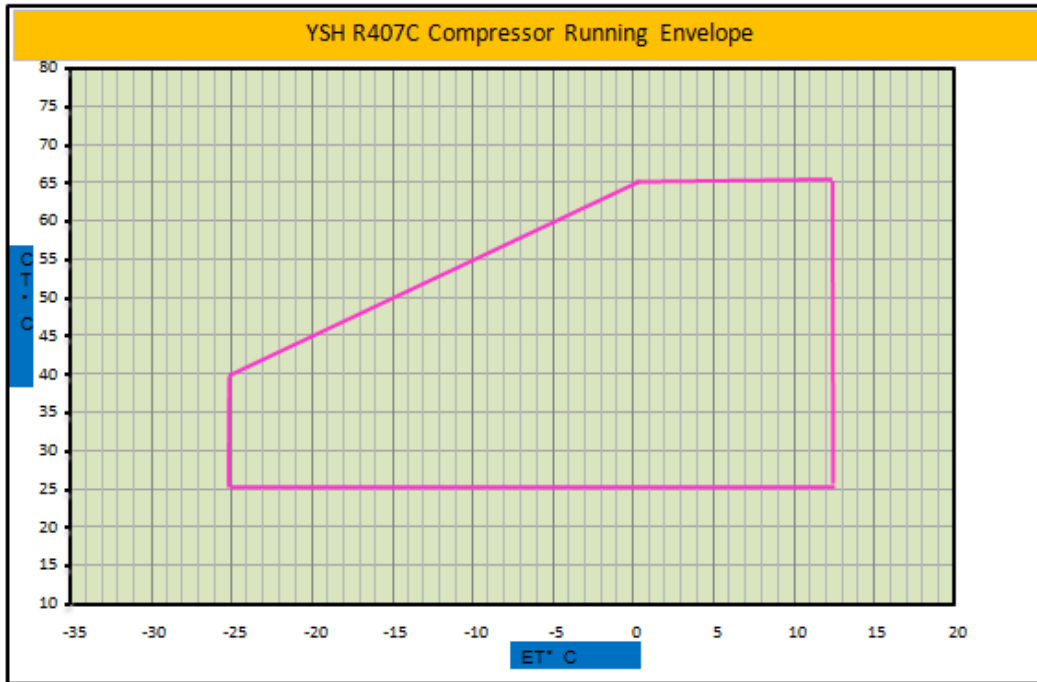
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Pressure Release Valve Open Range: 2.76--3.10Mpa

*5 Compressor Running Envelope

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



*6 Compressor Performance Data Sheet

Invotech YSH450T1G-100 Compressor Performance Sheet								
工况	-20	-15	-10	-5	0	5	10	
Cap W	65					31173	33827	40911
	55			22383	26778	32830	39626	47011
	50		19333	23416	28783	35075	42148	49473
	45	16571	20149	25037	30861	37321	44574	51875
	40	17232	21470	26570	32482	39230	46411	54336
	35	18336	22803	28159	34295	40947	48236	56798
	25	20005	24725	29696	36384	42881	51046	58959
Power W	65					17206	17354	17502
	55			13638	13746	13800	13921	14015
	50		11982	12157	12319	12372	12561	12669
	45	10649	10730	10932	10986	11120	11188	11551
	40	9464	9693	9747	9882	10043	10057	10447
	35	8362	8549	8791	8939	9012	9195	9506
	25	7162	7405	7701	7876	8212	8253	8361

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

