
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW245T1-100

*1 Compressor Basic Performance Specification

Model	YW245T1-100
Refrigerant	R407C
Cap(W) (a)	31772
Power Input (W) ^(a)	8252
Running Current (a) ^(a)	14.7
COP ^(a)	3.85
Rated Voltage (V)	380V
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current ^(a)	117
Highest Running Current ^(b)	21.8
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	53
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 (Ω) (25 °c)	1.09(± 10%)
Insulation And Voltage Resistance (V)	2500
Leakage Current (ma)	<5
Insulation Resistance(MΩ)	>20
Ground Resistance(Ω)	<0.1
Oil Circulation (%) ^(f)	Less Than 1%
Sound (Sound Power) ^(g)	76
Maximal Vib (mm, Peak-Peak) ^(h)	<0.12
Maximal Moisture (mg)	< 500
Maximal Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	3.0
Low Side (Mpa)	2.0

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Instruction For Performance Specification Running Condition

- a) Test Condition: First Rated Running Point
- b) Test Condition: ET:15C, CT:70C, Running Voltage @ 90% Rated Voltage
- c) Test Condition: 380V, 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 @15 C / Refrigerant Saturation Pressure @70C, Superheat 11.9C, Sub cooling 8.3C
- f) Mass Flow Under First Rated Point
- g) ARI Condition, Average Of Sound Power , Maximal Sound Power Is Less Than 5dba Added.
- h) Ari 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 (380V, 50 HZ), Allowed Normal Specification Tolerance Is $\pm 5\%$
(Performance And Sound Test Neede20hrs Break In Running)

Seq	Parameter	First Rated Running Point
1	Evaporating T	5.0
2	Condensing T	55.0
3	Ambient T	35.0
4	Return Gas T	16.1
5	Superheat K	11.1
6	Subcooling K	8.3

*4 Internal Protection Parts

- Internal protector Protection
- Internal Pressure Release Valve Protection
Pressure Release Valve Open Range: 2.76--3.10Mpa



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*5 Compressor Running Envelop

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



*6 Compressor Performance Sheet

Invotech Scroll Compressor YW245T1-100 Performance Sheet									
		-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap +Power)	70					25723	29365	33428	37873
	65				23154	26286	29868	33900	38469
	55		17644	20367	23445	26879	30782	35207	40216
	50	15310	17686	20466	23648	27232	31306	35925	41148
	45	15423	17780	20587	23891	27622	31864	36673	42108
	35	15476	17926	20919	24457	28472	33042	38224	44075
	25	15701	18186	21310	25072	29358	34245	39786	46041
POWER	70					10563	10848	11080	11432
	65				10218	10255	10271	10265	10506
	55		8029	8078	8106	8112	8141	8209	8490
	50	6983	7081	7159	7215	7246	7303	7401	7701
	45	6177	6289	6381	6451	6502	6581	6706	7022
	35	4885	5011	5116	5199	5276	5389	5551	5891
	25	3846	3969	4070	4151	4235	4360	4544	4891

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.