
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW110T1-100

*1 Compressor Basic Performance Specification

Model	YW110T1-100
Refrigerant	R407C
Cap(W) (a)	14590
Power Input (W) ^(a)	3840
Running Current (a) ^(a)	7.4
COP ^(a)	3.80
Rated Voltage (V)	380V
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current ^(a)	60
Highest Running Current ^(b)	10.5
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	31
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	1.40
(Recharge, L)	1.25
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance (Ω) (25 °c)	2.45(± 10%)
Insulation And Voltage Resistance (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)	73
Maximal Vib (mm, Peak-Peak) ^(h)	<0.10
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 YW110T1-100 Performance Sheet									
		-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap +Power)	70					12287	14105	16014	18117
	65				11571	12198	14232	16286	18572
	55		9045	9863	11126	12841	14673	16967	19470
	50	7966	8683	9737	11324	13104	15141	17348	19917
	45	7822	8482	9713	11560	13361	15359	17698	20350
	35	7960	8931	10189	12017	13929	15969	18466	21077
	25	6990	7947	9981	12474	14536	16548	17760	14152
POWER	70					4878	4991	5250	5456
	65				4262	4388	4487	4720	4906
	55		3320	3455	3561	3720	3866	4005	4192
	50	2895	3022	3135	3343	3487	3582	3738	3943
	45	2654	2756	2964	3150	3233	3276	3451	3664
	35	2276	2437	2597	2758	2795	2872	3075	3278
	25	1902	2078	2254	2430	2501	2570	2651	1849

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.