
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW205T1-100

*1 Compressor Basic Performance Specification

Model	YW205T1-100
Refrigerant	R407C
Cap(W) (a)	26717
Power Input (W) ^(a)	6979
Running Current (a) ^(a)	13.0
COP ^(a)	3.83
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)	19.6
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)	75
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	Second Rated Running Point
1	Evaporating T	5.0	7.2
2	Condensing T	55.0	54.4
3	Ambient T	35.0	35.0
4	Return Gas T	16.1	18.3
5	Superheat K	11.1	11.1
6	Subcooling K	8.3	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 YW205T1-100 Performance Sheet									
		-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap +Power)	70					21934	25020	28460	32226
	65				19756	22406	25436	28846	32715
	55		15059	17362	19967	22872	26173	29918	34159
	50	13067	15079	17431	20124	23156	26603	30511	34934
	45	13149	15145	17521	20317	23473	27062	31132	35735
	35	13172	15246	17780	20774	24171	28039	32425	37379
	25	13345	15449	18093	21276	24904	29039	33729	39026
POWER	70					9113	9359	9560	9863
	65				8816	8848	8861	8857	9064
	55		6927	6969	6993	6999	7024	7083	7325
	50	6024	6110	6177	6225	6252	6301	6385	6644
	45	5329	5426	5505	5566	5609	5678	5785	6058
	35	4215	4323	4414	4486	4552	4649	4789	5082
	25	3318	3424	3512	3581	3654	3762	3920	4220

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.