
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW135T1-100

*1 Compressor Basic Performance Specification

Model	YW135T1-100
Refrigerant	R407C
Cap(W) (a)	17520
Power Input (W) ^(a)	4550
Running Current (a) ^(a)	8.40
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)	60.0
Highest Running Current ^(b)	12.6
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)	2.25(± 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)	73
Maximal Vib (mm, Peak-Peak) ^(h)	<0.09
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

YW135T1-100 Performance Sheet									
		-20	-15	-10	-5	0	5	10	15
Cap	70					14694	16884	19178	21708
	65				13846	14599	17048	19519	22269
	55		10824	11807	13326	15390	17594	20357	23369
	50	9534	10394	11663	13570	15713	18166	20822	23914
	45	9366	10158	11638	13859	16029	18436	21251	24443
	35	9540	10707	12220	14420	16723	19180	22186	25327
	25	8381	9530	11977	14978	17462	19885	21344	17014
Power	70					5764	5897	6204	6448
	65				5037	5185	5302	5577	5798
	55		3924	4083	4208	4396	4568	4733	4953
	50	3421	3571	3705	3951	4120	4233	4418	4660
	45	3136	3256	3503	3722	3821	3872	4078.38	4330
	35	2689	2879	3069	3259	3302	3393	3633	3874
	25	2248	2456	2664	2872	2956	3037	3132	2186

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.