
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW75T1-100

*1 Compressor Basic Performance Specification

Model	YW75T1-100
Refrigerant	R407C
Cap(W) (a)	9920
Power Input (W) ^(a)	2660
Running Current (a) ^(a)	5.8
COP ^(a)	3.73
Rated Voltage (V)	380V
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current ^(a)	45
Highest Running Current ^(b)	7.5
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	30
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)	3.3(± 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)	71
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
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	Sub cooling 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 YW75T1-100 Performance Sheet									
		-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap +Power)	70					8319	9552	10847	12273
	65				7835	8260	9640	11033	12583
	55		6125	6680	7536	8699	9942	11498	13195
	50	5395	5880	6595	7671	8879	10261	11758	13500
	45	5298	5745	6580	7832	9054	10410	11996	13795
	35	5392	6051	6904	8144	9441	10825	12519	14290
	25	4736	5385	6764	8455	9854	11219	12041	9596
POWER	70					3354	3432	3610	3752
	65				2931	3017	3085	3245	3374
	55		2283	2376	2448	2558	2658	2754	2882
	50	1991	2078	2156	2299	2398	2463	2571	2711
	45	1825	1895	2038	2166	2223	2253	2373	2520
	35	1565	1676	1786	1897	1922	1975	2114	2254
	25	1308	1429	1550	1671	1720	1767	1823	1272

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.