
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW55J1-100

*1 Compressor Basic Performance Specification

Model	YW55J1-100
Refrigerant	R134a
Cap(W) (a)	7180
Power Input (W) ^(a)	1670
Running Current (a) ^(a)	4.0
COP ^(a)	4.30
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)	6.5
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)	2000
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:25C, CT:85C, 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 @25 C / Refrigerant Saturation Pressure @85C, 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	7.2
2	Condensing T	54.4
3	Ambient T	35.0
4	Return Gas T	18.3
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

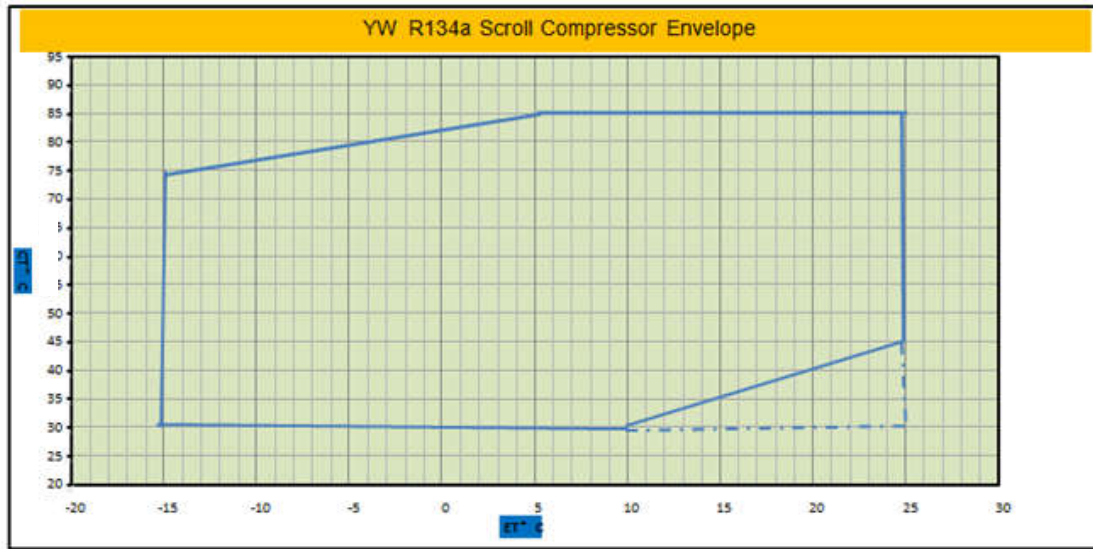


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*5 Compressor Running Envelop

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



*6 Compressor Performance Sheet

Invotech YW55J1-100 Scroll Compressor Performance Sheet										
		-15	-10	-5	0	5	10	15	20	25
Heating Cap (Cooling Cap+Power)	85			4572	4884	5214	6614	8014	8984	9920
	80			4594	5050	5520	6847	8173	9213	10230
	70	3252	3890	4638	5382	6133	7313	8492	9671	10851
	60	3355	3650	4682	5714	6746	7779	8811	10130	11440
	50	3464	4044	5052	6045	7194	7964	9506	10882	12241
	40	3570	4512	5371	6227	7631	8988	10329	11667	13005
	30	3674	4559	5445	6329	7816	9304	10791	12269	13747
Power	85			2220	2372	2526	2680	2834	2988	3096
	80			2117	2253	2391	2529	2667	2805	2912
	70	1634	1808	1912	2017	2123	2228	2334	2440	2545
	60	1442	1634	1707	1781	1854	1927	2001	2074	2147
	50	1249	1377	1501	1543	1584	1626	1667	1813	1918
	40	1055	1193	1247	1302	1360	1418	1508	1598	1688
	30	859	926	993	1060	1135	1210	1285	1351	1416

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.