
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW80J1-100

*1 Compressor Basic Performance Specification

Model	YW80J1-100
Refrigerant	R134a
Cap(W) (a)	10430
Power Input (W) ^(a)	2430
Running Current (a) ^(a)	5.7
COP ^(a)	4.29
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)	9.0
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

 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW80J1-100

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

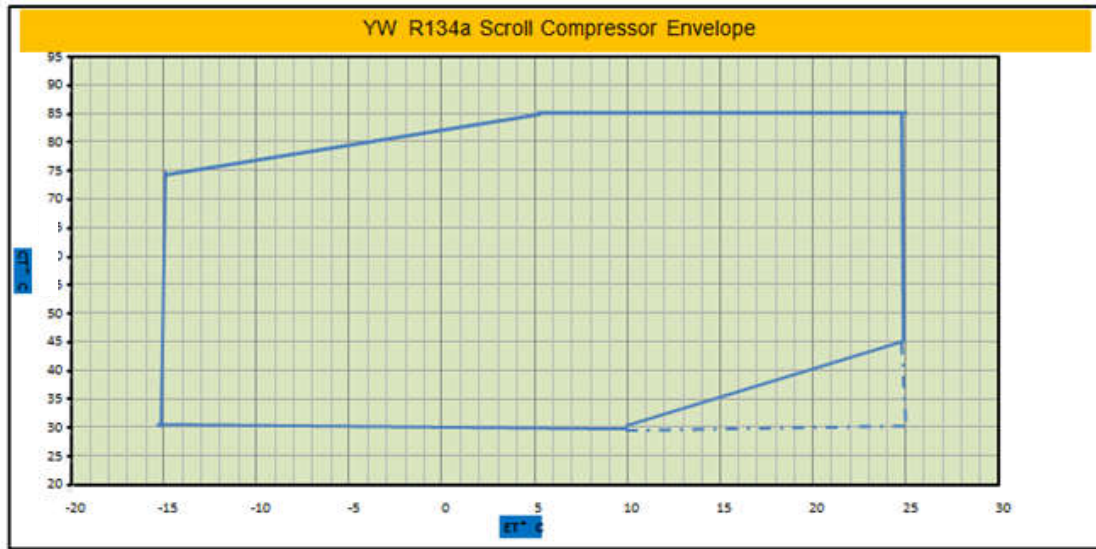


Invotech Scroll Compressor Specification

Comp Model	High Temperature Used Comp YW80J1-100
------------	---------------------------------------

*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 YW80J1-100 Scroll Compressor Performance Sheet										
		-15	-10	-5	0	5	10	15	20	25
Heating Cap (Cooling Cap+Power)	85			6655	7109	7588	9618	11648	13056	14414
	80			6685	7348	8030	9954	11877	13385	14860
	70	4734	5660	6745	7825	8914	10624	12334	14043	15753
	60	4880	5310	6806	8302	9798	11295	12791	14702	16601
	50	5036	5878	7339	8777	10442	11559	13793	15787	17758
	40	5186	6553	7797	9038	11072	13038	14981	16921	18860
30	5334	6616	7902	9182	11337	13492	15647	17789	19931	
Power	85			3248	3470	3695	3921	4146	4372	4530
	80			3098	3297	3499	3701	3903	4104	4261
	70	2391	2645	2798	2951	3106	3260	3415	3569	3724
	60	2109	2391	2498	2605	2713	2820	2927	3035	3142
	50	1828	2014	2197	2258	2318	2379	2440	2501	2563
	40	1543	1746	1825	1905	1990	2075	2207	2338	2469
30	1257	1355	1453	1551	1661	1771	1880	1976	2072	

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.