
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW100J1-100

*1 Compressor Basic Performance Specification

Model	YW100J1-100
Refrigerant	R134A
Cap(W) (a)	13000
Power Input (W) ^(a)	3000
Running Current (a) ^(a)	6.20
COP ^(a)	4.33
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)	10.4
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 YW100J1-100

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

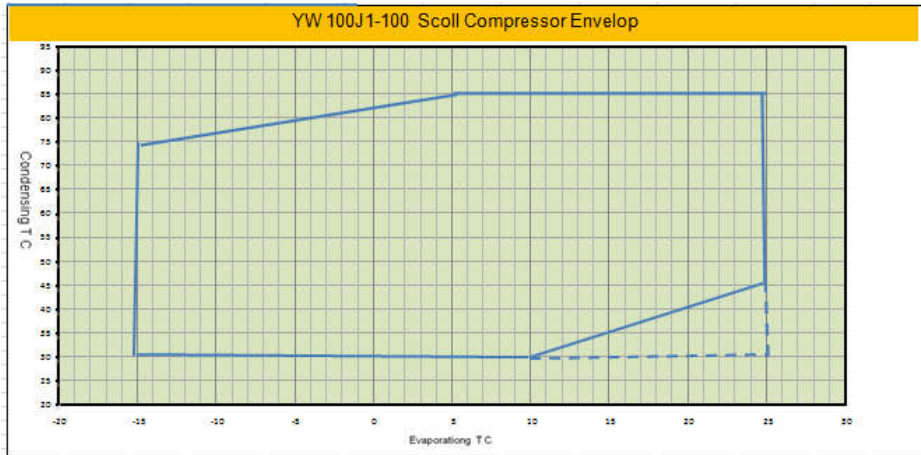


Invotech Scroll Compressor Specification

Comp Model	High Temperature Used Comp YW100J1-100
------------	--

*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 Scroll YW100J1 Performance Sheet										
		-15	-10	-5	0	5	10	15	20	25
Cap	85			8097	8651	9234	11722	14211	15935	17599
	80			8138	8948	9781	12139	14498	16346	18154
	70	5759	6890	8220	9542	10877	12974	15071	17167	19264
	60	5945	6466	8301	10137	11973	13808	15644	17989	20320
	50	6143	7172	8963	10729	12773	14144	16886	19332	21749
	40	6334	8008	9535	11058	13555	15968	18353	20732	23112
	30	6523	8096	9673	11243	13888	16534	19179	21808	24436
Power	85			3912	4179	4451	4723	4994	5266	5456
	80			3732	3971	4214	4457	4701	4944	5132
	70	2880	3186	3370	3555	3741	3927	4113	4299	4485
	60	2541	2880	3009	3138	3267	3397	3526	3655	3784
	50	2202	2426	2646	2719	2792	2865	2938	3195	3380
	40	1859	2103	2198	2294	2397	2499	2658	2816	2974
	30	1514	1632	1750	1868	2000	2133	2264	2380	2496

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

Blue Area is transition only.