
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW240J1-100

*1 Compressor Basic Performance Specification

Model	YW240J1-100
Refrigerant	R134A
Heating Cap(W) (a)	29020
Displacement(m ³ /h)	32.9
Power Input (W) ^(a)	6520
Running Current (a) ^(a)	12.2
COP ^(a)	4.45
Rated Voltage (V)	380
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current ^(a)	121
Highest Running Current ^(b)	24.0
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	54
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	2.70
(Recharge, L)	2.60
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance (Ω) (25 °c)	1.06(± 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)	77
Maximal Vib (mm, Peak-Peak) ^(h)	<0.12
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 82dBA.
- 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

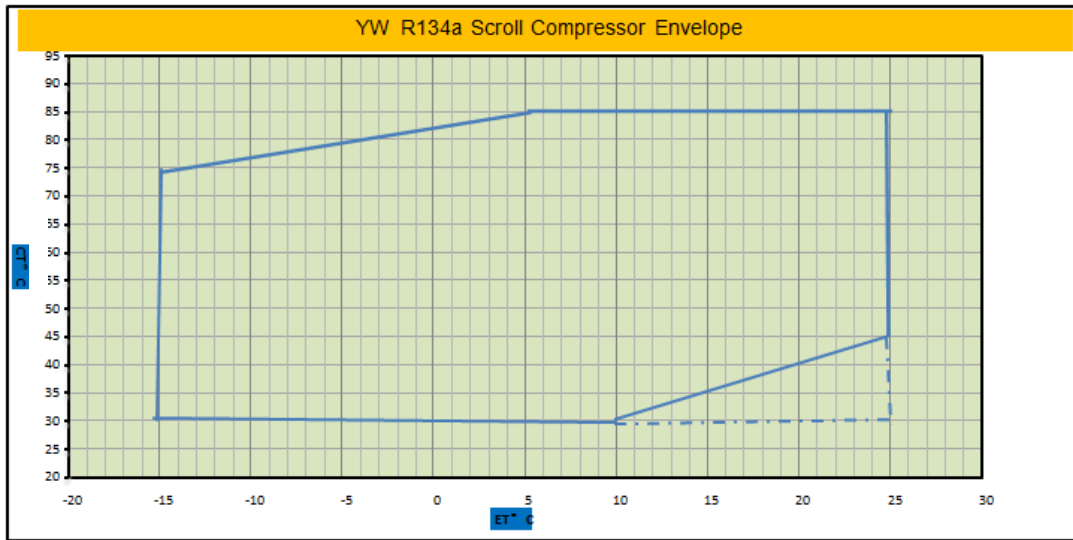


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*5 Compressor Running Envelop

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



*6 Compressor Performance Sheet

Invotech Scroll YW240J1-100 Performance Sheet										
		-15	-10	-5	0	5	10	15	20	25
Cap W	85					22867	26305	30113	34344	39051
	80			18527	21403	23362	26866	30778	35151	40039
	75	12858	15200	17779	20647	23856	27460	31510	36060	41163
	70	13219	15542	18140	21065	24370	28108	32331	37091	42442
	65	13483	15821	18472	21489	24924	28830	33259	38265	43899
	60	13671	16059	18798	21940	25539	29647	34317	39601	45551
	55	13805	16276	19136	22438	26235	30579	35523	41120	47422
	50	13903	16491	19507	23003	27032	31647	36899	42843	49529
	45	13988	16727	19932	23656	27951	32870	38465	44789	51895
	40	14078	17003	20431	24417	29012	34270	40241	46980	
35	14194	17339	21025	25307	30236	35866	42248			
30	14358	17755	21734	26345	31643	37679				
Power W	85					11074	11319	11635	12063	12648
	80			10655	10955	10021	10309	10671	11151	11794
	75	7739	8170	8509	8797	9080	9399	9800	10323	11015
	70	6861	7294	7639	7939	8240	8582	9011	9569	10300
	65	6111	6535	6878	7182	7491	7848	8296	8879	9641
	60	5478	5886	6217	6515	6823	7185	7644	8243	9026
	55	4953	5335	5645	5928	6227	6585	7046	7652	8447
	50	4526	4873	5154	5413	5693	6038	6491	7095	7894
	45	4188	4490	4733	4958	5211	5534	5970	6563	7356
	40	3928	4177	4372	4555	4771	5062	5473	6045	
35	3737	3923	4061	4193	4363	4614	4990			
30	3604	3719	3791	3863	3978	4179				

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling.