
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW180J1-100

*1 Compressor Basic Performance Specification

Model	YW180J1-100
Refrigerant	R134A
Heating Cap(W) (a)	22070
Displacement(m ³ /h)	25.3
Power Input (W) ^(a)	5070
Running Current (a) ^(a)	10.5
COP ^(a)	4.35
Rated Voltage (V)	380
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current ^(a)	117
Highest Running Current ^(b)	18.8
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	53
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)	1.09(± 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)	76
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

 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	High Temperature Used Comp YW180J1-100

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 81dBA.
- 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

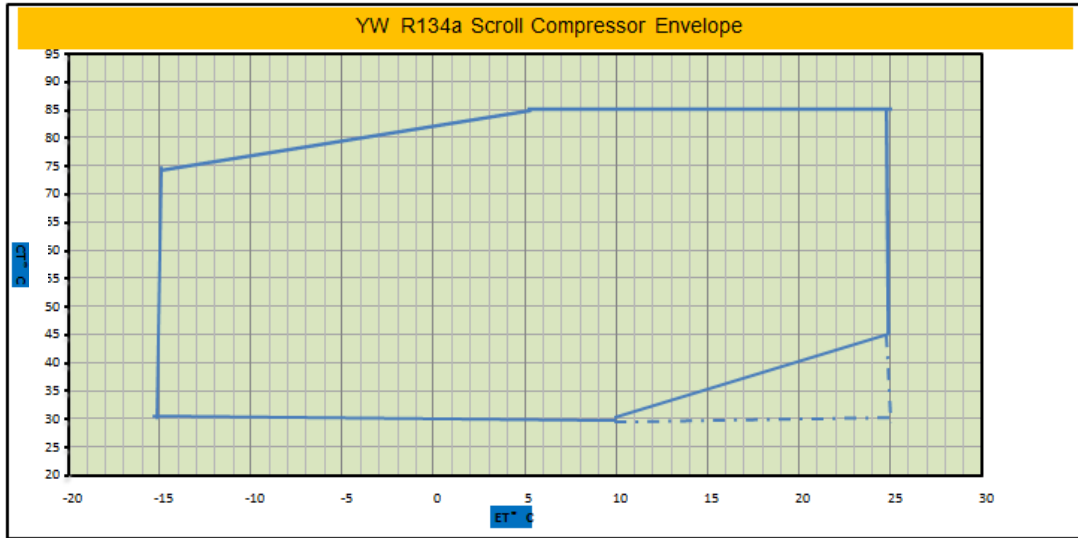


Invotech Scroll Compressor Specification

Comp Model	High Temperature Used Comp YW180J1-100
------------	--

*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 YW180J1-100 Performance Sheet										
		-15	-10	-5	0	5	10	15	20	25
Cap W	85					17585	20228	23157	26410	30030
	80			14071	16278	17965	20660	23668	27031	30790
	75	9888	11689	13672	15877	18345	21116	24231	27730	31654
	70	10165	11952	13949	16199	18741	21615	24862	28523	32638
	65	10368	12166	14205	16525	19167	22170	25576	29425	33758
	60	10513	12349	14455	16872	19640	22799	26389	30453	35029
	55	10616	12516	14715	17255	20175	23515	27317	31621	36467
	50	10692	12682	15001	17689	20788	24336	28375	32946	38088
	45	10756	12863	15328	18191	21494	25277	29580	34443	39907
	40	10826	13075	15712	18777	22310	26353	30945	36128	
35	10915	13333	16168	19461	23252	27581	32489			
30	11041	13654	16713	20260	24333	28975				
Power W	85					8516	8705	8947	9277	9726
	80			8017	8243	7706	7927	8206	8575	9069
	75	5951	6283	6543	6765	6982	7228	7536	7939	8470
	70	5276	5609	5874	6105	6336	6600	6930	7359	7921
	65	4699	5026	5289	5523	5760	6035	6380	6828	7414
	60	4212	4526	4781	5010	5247	5525	5878	6339	6941
	55	3809	4102	4341	4559	4789	5064	5418	5884	6496
	50	3481	3747	3963	4163	4378	4643	4991	5456	6070
	45	3221	3453	3639	3813	4007	4255	4591	5047	5657
	40	3021	3212	3362	3503	3669	3893	4208	4649	
35	2874	3017	3123	3225	3355	3548	3837			
30	2772	2860	2915	2971	3059	3214				

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