
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW135C1-100

\*1 Compressor Basic Performance Specification

Model	YW135C1-100
Refrigerant	R410A
Cap(W) (a)	18593
Power Input (W) <sup>(a)</sup>	4893
Running Current (a) <sup>(a)</sup>	8.7
COP <sup>(a)</sup>	3.80
Rated Voltage (V)	380V
Phase-Hz	3 P - 50 HZ
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current <sup>(a)</sup>	60
Highest Running Current <sup>(b)</sup>	13.0
Motor Speed (R/Min) <sup>(c)</sup>	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) <sup>(d)</sup>	323
MOV (V) <sup>(e)</sup>	342
Motor Insulation Temperature	130°C
Resistance (Ω) (25 °c)	2.45( ± 10%)
Insulation And Voltage Resistance (V)	2500
Leakage Current (ma)	<5
Insulation Resistance(MΩ)	>20
Ground Resistance(Ω)	<0.1
Oil Circulation (%) <sup>(f)</sup>	Less Than 1%
Sound (Sound Power) <sup>(g)</sup>	73
Maximal Vib (mm, Peak-Peak) <sup>(h)</sup>	<0.10
Maximal Moisture (mg)	< 500
Maximal Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	4.3
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:15C, CT:70C, 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 @15 C / Refrigerant Saturation Pressure @70C, 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	5.0
2	Condensing T	55.0
3	Ambient T	35.0
4	Return Gas T	16.1
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: 3.97--4.31Mpa

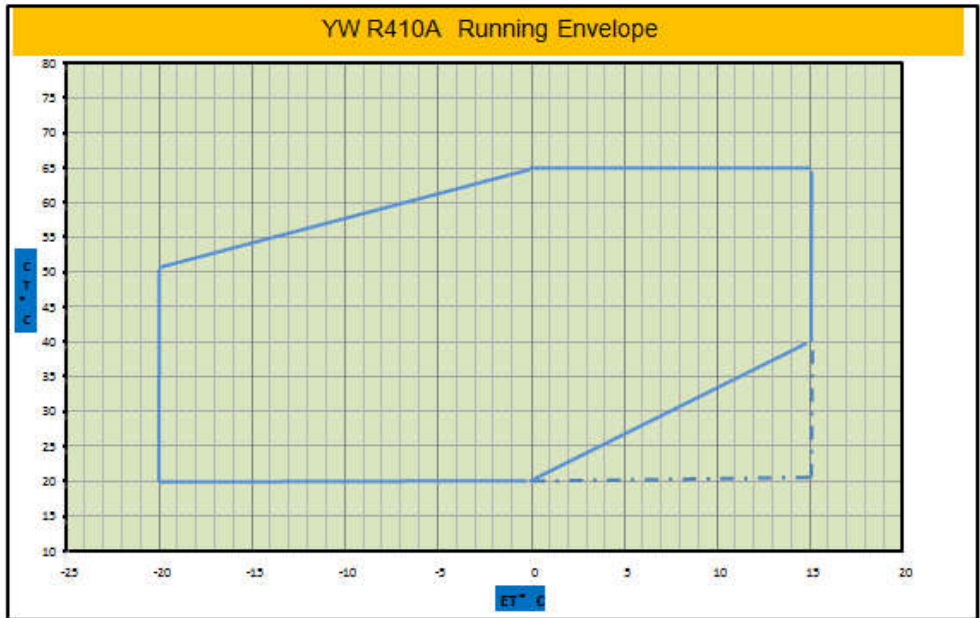


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## \*5 Compressor Running Envelop

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



## \*6 Compressor Performance Sheet

Invotech YW135C1-100 Scroll Compressor Performance Sheet									
	工况	-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap+Power)	65					15274	17630	20071	22790
	55		9774	11927	14432	16664	18893	21481	24040
	50	8906	10674	12500	14892	17178	19487	22202	24783
	45	9304	11296	12983	15295	17684	20114	22989	25888
	40	9680	11684	13264	15716	18111	20717	23723	26845
	35	10140	11949	13542	16052	18586	21329	24517	27931
	25	10197	12214	13819	16387	19062	21940	25311	
Power	65					6315	6282	6344	6436
	55		4704	4829	4953	5003	4978	5026	5101
	50	4169	4225	4281	4413	4474	4451	4499	4568
	45	3777	3821	3923	3958	4032	4050	4085	4140
	40	3364	3452	3504	3570	3605	3627	3664	3717
	35	3010	3082	3128	3191	3227	3257	3302	3358
	25	2697	2711	2752	2812	2850	2887	2941	

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

X-axis Ordinate Is Evaporating T (°C), Y-axis Ordinates Is Condensing T (°C)