
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW110C1-100

*1 Compressor Basic Performance Specification

Model	YW110C1-100
Refrigerant	R410A
Cap(W) (a)	14577
Power Input (W) ^(a)	3877
Running Current (a) ^(a)	7.4
COP ^(a)	3.76
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)	11.0
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)	2500
Leakage Current (ma)	<5
Insulation Resistance(MΩ)	>20
Ground Resistance(Ω)	<0.1
Oil Circulation (%) ^(f)	Less Than 1%
Sound (Sound Power) ^(g)	71
Maximal Vib (mm, Peak-Peak) ^(h)	<0.09
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

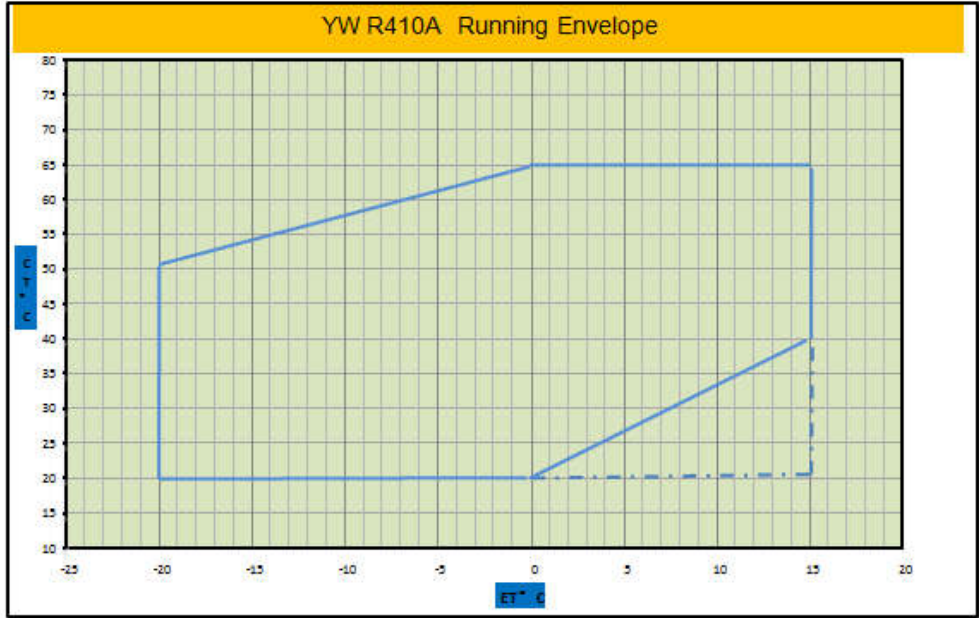


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*5 Compressor Running Envelop

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



*6 Compressor Performance Sheet

Invotech YW110C1-100 Scroll Compressor Performance Sheet									
	工况	-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap+Power)	65					11962	13791	15688	17802
	55		7665	9339	11287	13021	14752	16763	18751
	50	6662	8356	9775	11635	13412	15205	17314	19320
	45	7285	8833	10145	11941	13798	15686	17919	20172
	40	7571	9129	10357	12262	14123	16148	18483	20908
	35	7923	9329	10567	12517	14486	16617	19094	21746
	25	7962	9529	10776	12772	14850	17086	19705	
Power	65					5003	4978	5026	5099
	55		3727	3826	3925	3964	3944	3982	4041
	50	3303	3347	3392	3496	3545	3526	3565	3620
	45	2993	3027	3109	3136	3195	3209	3236	3280
	40	2665	2735	2777	2829	2856	2873	2903	2945
	35	2385	2442	2479	2528	2557	2581	2616	2661
	25	2137	2148	2181	2228	2258	2288	2330	

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

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