
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW75C1-100

\*1 Compressor Basic Performance Specification

Model	YW75C1-100
Refrigerant	R410A
Cap(W) (a)	10626
Power Input (W) <sup>(a)</sup>	2826
Running Current (a) <sup>(a)</sup>	5.3
COP <sup>(a)</sup>	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 <sup>(a)</sup>	45
Highest Running Current <sup>(b)</sup>	7.6
Motor Speed (R/Min) <sup>(c)</sup>	2900
Comp Weight With Oil (kg)	30
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)	3.3( ± 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>	71
Maximal Vib (mm, Peak-Peak) <sup>(h)</sup>	<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

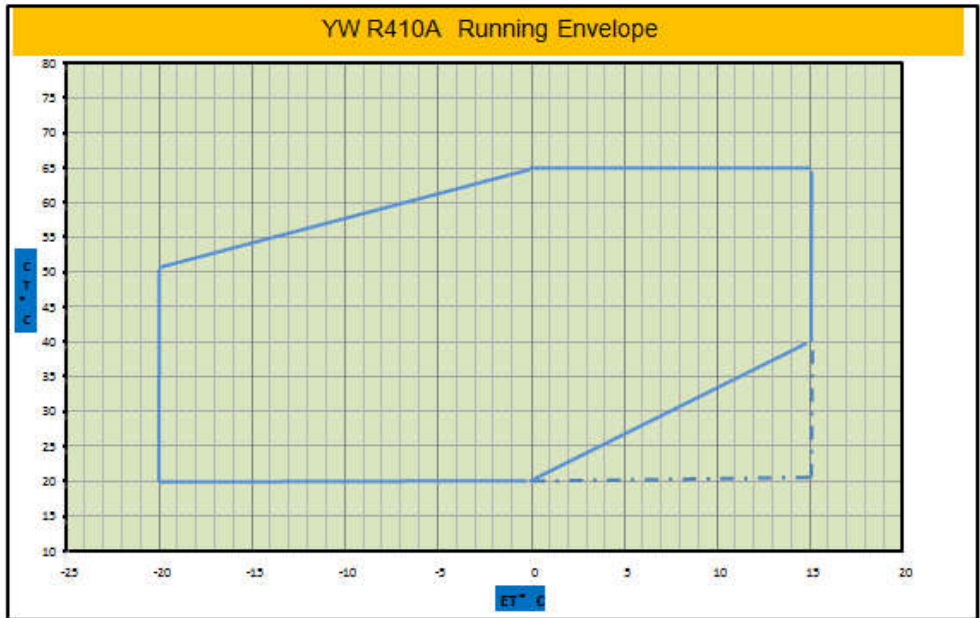


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## \*5 Compressor Running Envelop

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



## \*6 Compressor Performance Sheet

Invotech YW75C1-100 Scroll Compressor Performance Sheet									
	工况	-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap+Power)	65					8753	10189	11589	13147
	55		5667	6901	8338	9618	10894	12377	13844
	50	4925	6175	7222	8594	9904	11227	12782	14262
	45	5384	6526	7493	8818	10188	11580	13227	14889
	40	5593	6743	7648	9054	10426	11920	13642	15431
	35	5852	6889	7802	9241	10693	12264	14091	16048
	25	5880	7035	7956	9427	10960	12609	14541	
Power	65					3708	3689	3725	3779
	55		2762	2836	2909	2938	2923	2952	2995
	50	2448	2481	2514	2591	2627	2614	2642	2683
	45	2218	2244	2304	2324	2368	2378	2399	2431
	40	1975	2027	2058	2096	2117	2130	2151	2182
	35	1768	1810	1837	1874	1895	1913	1939	1972
	25	1584	1592	1616	1652	1673	1696	1727	

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

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