
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW160C1-100

*1 Compressor Basic Performance Specification

Model	YW160C1-100
Refrigerant	R410A
Cap(W) (a)	21403
Power Input (W) ^(a)	5603
Running Current (a) ^(a)	9.8
COP ^(a)	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 ^(a)	65
Highest Running Current ^(b)	14.0
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (kg)	33
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)	1.9(± 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)	73
Maximal Vib (mm, Peak-Peak) ^(h)	<0.10
Maximal Moisture (mg)	< 500
Maximal Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	4.3
Low Side (Mpa)	2.0

 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Water Heater Used Comp YW160C1-100

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

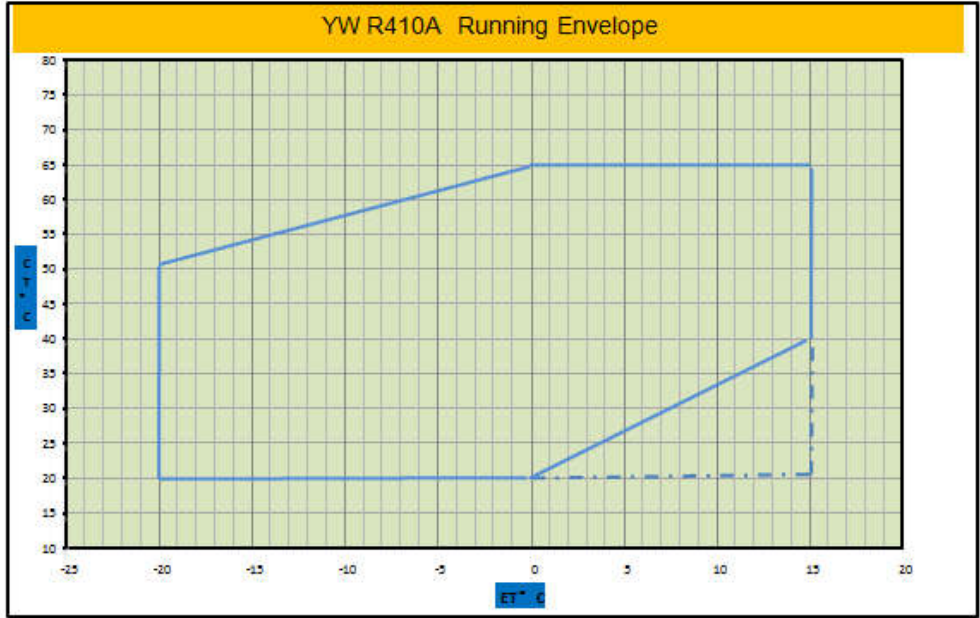


Invotech Scroll Compressor Specification

Comp Model	Water Heater Used Comp YW160C1-100
------------	------------------------------------

*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 YW160C1-100 Scroll Compressor Performance Sheet									
	工况	-20	-15	-10	-5	0	5	10	15
Heating Cap (Cooling Cap+Power)	65					17283	19948	22711	25788
	55		11060	13495	16330	18856	21378	24306	27202
	50	9955	12078	14144	16850	19437	22050	25121	28042
	45	10527	12782	14690	17306	20010	22759	26012	29293
	40	10953	13221	15008	17783	20493	23442	26843	30375
	35	11473	13520	15323	18163	21031	24133	27741	31604
	25	11538	13820	15637	18542	21569	24825	28640	
Power	65					7146	7109	7179	7283
	55		5323	5464	5605	5661	5633	5688	5772
	50	4718	4781	4844	4993	5062	5037	5091	5170
	45	4275	4324	4440	4479	4562	4583	4622	4684
	40	3807	3907	3966	4040	4080	4104	4146	4206
	35	3406	3487	3540	3611	3652	3686	3737	3800
	25	3052	3068	3114	3183	3225	3267	3328	

Cap And Power Is Under 11.1C Superheat, 8.3Csubcooling

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