



# Invotech Scroll Compressor Specification

Comp Model	Air-condition Used Comp YH230C1-100
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## \*1 Compressor Basic Performance Specification

Model	YH230C1-100
Refrigerant	R410A
Cap (W) <sup>(a)</sup>	23000
Displacement(m <sup>3</sup> /h)	15.8
Power Input (W) <sup>(a)</sup>	7210
Running Current (A) <sup>(a)</sup>	13.4
Coefficient Of Performance (COP) <sup>(a)</sup>	3.19
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	117
Highest Running Current (A) <sup>(b)</sup>	18.3
Motor Speed (R/Min) <sup>(c)</sup>	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) <sup>(d)</sup>	323
MOV (V) <sup>(e)</sup>	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	1.09( ± 10%)
Insulation Voltage (V)	2000
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
Maximum Vib (mm, Peak-Peak) <sup>(h)</sup>	<0.12
Maximum Moisture (mg)	< 500
Maximum Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	4.3
Low Side (Mpa)	2.0



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### NOTES:

- a) Test Condition: First Rated Running Point
- b) Test Condition: ET 11.9°C, CT 65.5°C, Running @ 90% Rated Voltage
- c) Test Condition: 380V, 50Hz, First Rated Running Point
- d) Discharge Pressure / Suction Pressure = Refrigerant Saturation Pressure @40°C (Absolute Pressure)
- e) Test Condition: Suction Pressure / Discharge Pressure = Refrigerant Saturation Pressure @11.9 °C / Refrigerant Saturation Pressure @65.5°C, Superheat 11.9°C, Sub cooling 8.3°C
- f) Mass Flow Under First Rated Point
- g) Running @ First Rated Running Point, Average Of Sound Power, Maximum Sound Power Is Less Than 76 dB(A)
- h) Running @ First Rated Running Point, Maximum Displacement Under Normal Direction When Compressor Running

### \*2 Standard Configuration:

- Ground Screw
- Welding Suction Fitting And Discharge Fitting
- Square Terminal Box Cover
- Without Liquid Injection Nor Vapour Injection
- Without Oil Sight Glass
- Mount Kits (4 Sets)

\*3 Test Condition (380V, 50 HZ), Capacity And COP Is No Less Than 95% Normal Specification, Power And Current Is No More Than 105% Normal Specification (Performance And Sound Test Need 24hrs Break In Running At Max Load Running Condition <sup>(e)</sup>)

Seq	Parameter	First Rated Running Point
1	Evaporating T	7.2 °C
2	Condensing T	54.4 °C
3	Ambient T	35.0 °C
4	Return Gas T	18.3 °C
5	Superheat K	11.1
6	Subcooling K	8.3

### \*4 Internal Protection Parts

- Internal Motor Protector
- Internal Pressure Release Valve

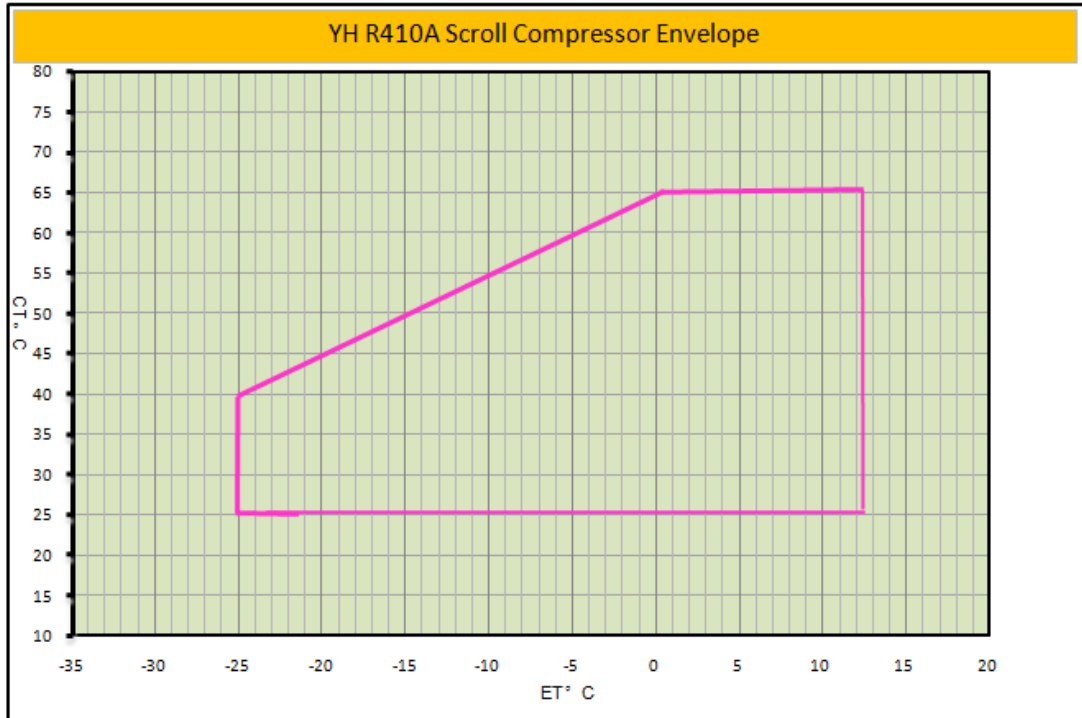


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Pressure Release Valve Open Range: 3.97--4.31Mpa

## \*5 Compressor Running Envelope



Compressor Running @ 11.1°C Superheat, 8.3°C Subcooling

## \*6 Compressor Performance Data Sheet

Invotech Scroll Compressor YH230C1-100 Performance Sheet								
	工况	-20	-15	-10	-5	0	5	10
CapW	65					13669	17312	21159
	55			10829	14535	17791	21230	25363
	50		9547	12539	16069	19382	22940	27286
	45	8140	11065	13821	17384	20829	24508	29138
	40	9303	12186	14890	18626	22131	26075	30919
	35	10503	13127	15887	19721	23432	27571	32701
	25	11048	14067	16885	20817	24734	29067	34482
PowerW	65					9260	9212	9212
	55			7370	7372	7337	7299	7299
	50		6515	6534	6567	6560	6527	6534
	45	5855	5892	5839	5862	5855	5825	5846
	40	5214	5269	5216	5235	5235	5216	5244
	35	4665	4704	4656	4680	4687	4684	4727
	25	4117	4138	4096	4124	4138	4153	4209

Cap. And Power Data in Grey-green Area Is Tested @ 11.1°C Superheat, 8.3°C subcooling  
 X-axis Ordinate Is Evaporating T (°C), Y-axis Ordinates Is Condensing T (°C)