
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Air-condition Used Comp YH183C1-100

\*1 Compressor Basic Performance Specification

Model	YH183C1-100
Refrigerant	R410A
Displacement(m <sup>3</sup> /h)	12.4
Cap (W) <sup>(a)</sup>	18300
Power Input (W) <sup>(a)</sup>	5810
Running Current (A) <sup>(a)</sup>	10.4
Coefficient Of Performance (COP) <sup>(a)</sup>	3.15
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	65.0
Highest Running Current (A) <sup>(b)</sup>	14.0
Motor Speed (R/Min) <sup>(c)</sup>	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) <sup>(d)</sup>	323
MOV (V) <sup>(e)</sup>	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	1.9( ± 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>	70
Maximum Vib (mm, Peak-Peak) <sup>(h)</sup>	<0.10
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 75 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



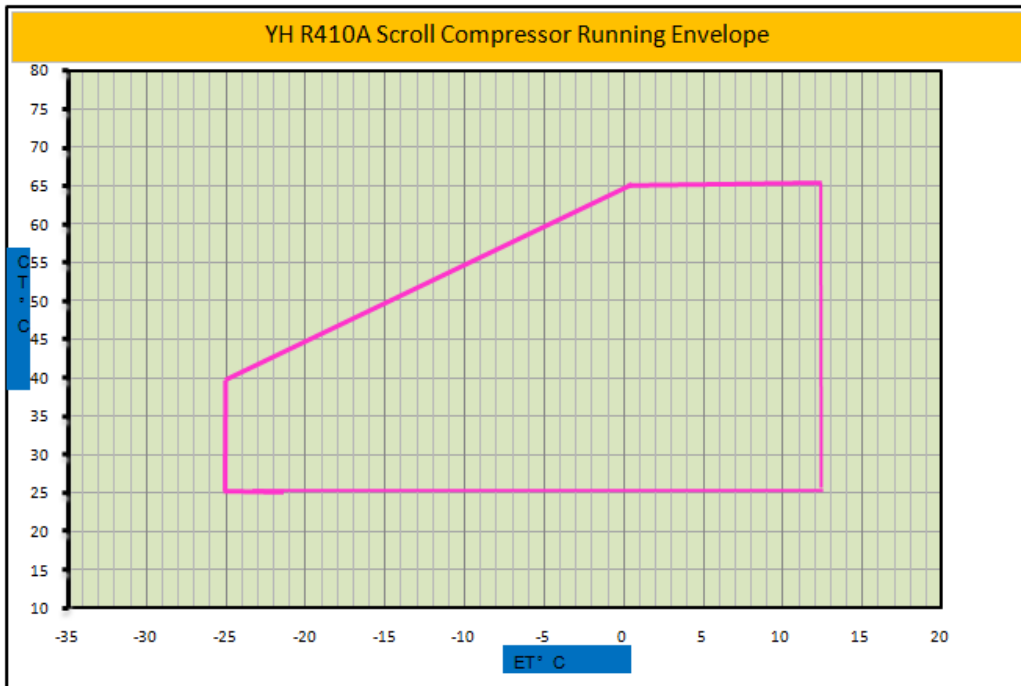
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Pressure Release Valve Open Range: 3.97--4.31Mpa

## \*5 Compressor Running Envelope

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



## \*6 Compressor Performance Data Sheet

Invotech Scroll Compressor YH183C1-100 Performance Sheet								
工况		-20	-15	-10	-5	0	5	10
CapW	65					11603	14079	16915
	55			9204	11404	13894	16716	20000
	50		8012	10050	12350	15040	18059	21492
	45	6811	8727	10895	13346	16135	19303	22985
	40	7415	9443	11691	14243	17181	20497	24278
	35	8019	10089	12438	15089	18077	21492	25472
	25	8999	11133	13532	16235	19372	22985	27064
PowerW	65					7395	7423	7383
	55			5876	5902	5908	5914	5890
	50		5291	5269	5284	5289	5295	5283
	45	4703	4729	4721	4736	4741	4755	4756
	40	4211	4257	4243	4247	4261	4276	4279
	35	3799	3825	3805	3819	3822	3846	3861
	25	3296	3313	3297	3300	3303	3327	3343

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)