



Invotech Scroll Compressor Specification

Comp Model	Air-condition Used Comp YH292C1-100
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*1 Compressor Basic Performance Specification

Model	YH292C1-100
Refrigerant	R410A
Cap (W) ^(a)	29200
Displacement(m ³ /h)	18.7
Power Input (W) ^(a)	9070
Running Current (A) ^(a)	15.8
Coefficient Of Performance (COP) ^(a)	3.22
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	121
Highest Running Current (A) ^(b)	23.6
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	54
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	2.70
(Recharge, L)	2.60
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	1.06(± 10%)
Insulation Voltage (V)	2000
Leakage Current (mA)	<5
Insulation Resistance (mΩ)	>20
Ground Resistance (Ω)	<0.1
Oil Circulation (%) ^(f)	Less Than 1%
Sound (Sound Power) ^(g)	73
Maximum Vib (mm, Peak-Peak) ^(h)	<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 78 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 ^(e))

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

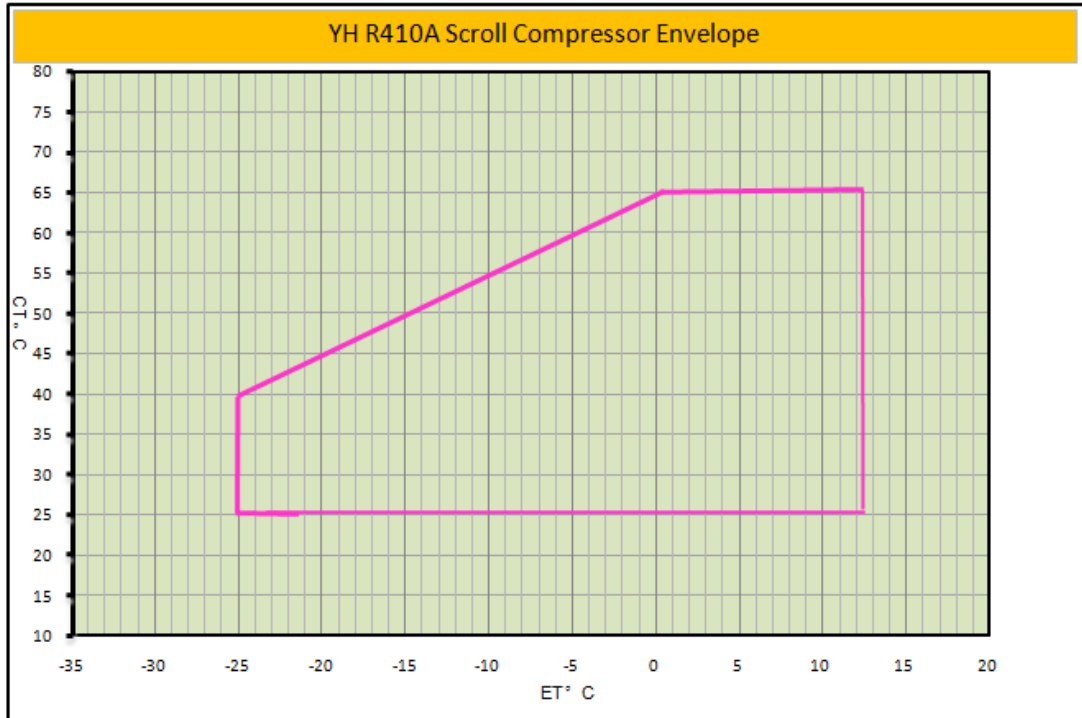


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Pressure Release Valve Open Range: 3.97--4.31Mpa

*5 Compressor Running Envelope



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

*6 Compressor Performance Data Sheet

Invotech Scroll Compressor YH292C1-100 Performance Sheet								
工况	-20	-15	-10	-5	0	5	10	
Cap W	65				17841	22596	27617	
	55			14134	18971	23221	27710	33103
	50		12460	16366	20974	25298	29941	35614
	45	10625	14442	18039	22690	27186	31987	38031
	40	12143	15906	19434	24310	28885	34033	40356
	35	13708	17133	20736	25740	30584	35986	42681
	25	14419	18360	22038	27170	32283	37938	45005
Power W	65				11966	11905	11905	
	55			9524	9527	9481	9432	9432
	50		8419	8443	8487	8478	8434	8443
	45	7566	7614	7546	7575	7566	7528	7555
	40	6738	6809	6740	6765	6765	6740	6777
	35	6029	6078	6017	6047	6057	6053	6108
	25	5320	5347	5293	5330	5348	5366	5440

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)