
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Air-condition Used Comp YH128C1-100

*1 Compressor Basic Performance Specification

Model	YH128C1-100
Refrigerant	R410A
Cap (W) ^(a)	12800
Displacement(m ³ /h)	8.6
Power Input (W) ^(a)	4183
Running Current (A) ^(a)	7.7
Coefficient Of Performance (COP) ^(a)	3.06
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	60
Highest Running Current (A) ^(b)	10.6
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	31
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 @ 25 °C Ambient (Ω)	2.45(± 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)	68
Maximum Vib (mm, Peak-Peak) ^(h)	<0.09
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 73dB(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

Pressure Release Valve Open Range: 3.97--4.31Mpa

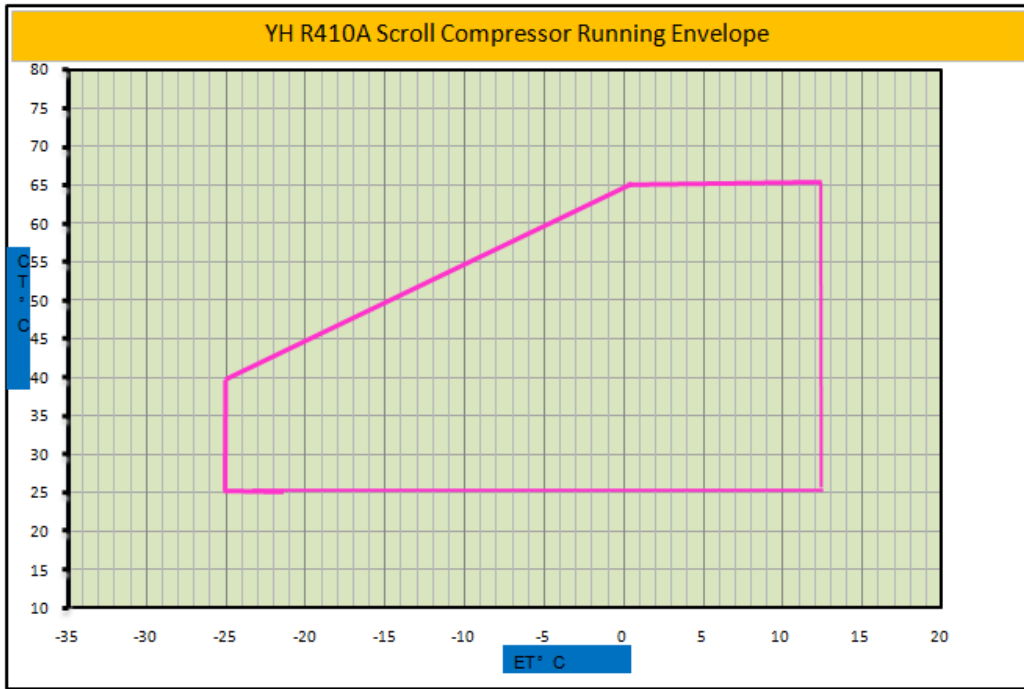


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*5 Compressor Running Envelope

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



*6 Compressor Performance Data Sheet

工况		-20	-15	-10	-5	0	5	10
Cap Ψ	65					7633	9668	11816
	55			6047	8117	9935	11856	14163
	50		5331	7002	8974	10824	12811	15238
	45	4546	6179	7718	9708	11632	13686	16272
	40	5195	6805	8315	10401	12359	14561	17267
	35	5865	7330	8872	11013	13086	15397	18261
	25	6169	7855	9429	11625	13813	16232	19256
Power W	65					5325	5297	5297
	55			4238	4239	4219	4197	4197
	50		3746	3757	3776	3772	3753	3757
	45	3367	3388	3358	3371	3367	3350	3362
	40	2998	3030	2999	3010	3010	2999	3015
	35	2683	2705	2677	2691	2695	2694	2718
	25	2367	2379	2355	2371	2380	2388	2421

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)