
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Semi-Hermetic Refrigeration Used Comp YSM235E1G-100

*1 Compressor Basic Performance Specification

Model	YSM235E1G-100
Refrigerant	R404A
Cap (W) ^(a)	23218
Displacement(m ³ /h)	37.7
Power Input (W) ^(a)	11900
Running Current (A) ^(a)	21.5
Coefficient Of Performance (COP) ^(a)	1.95
Rated Voltage (V)	380V
Phase/Hertz	3P/50Hz
Lowest Running Voltage (V)	342
Highest Running Voltage (V)	418
Lock Rotor Current (A)	148.5
Highest Running Current (A) ^(b)	28.9
Motor Speed (R/Min) ^(c)	2900
Comp Weight With Oil (Kg)	90
Oil	POE (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	3.20
(Recharge, L)	3.00
Lowest Voltage Start (V) ^(d)	323
MOV (V) ^(e)	342
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	0.7(± 10%)
Insulation Voltage (V)	2000
Leakage Current (mA)	<5
Insulation Resistance (mΩ)	>20
Ground Resistance (Ω)	<0.1
Oil Circulation (%) ^(f)	Less Than 2%
Sound (Sound Power) ^(g)	75
Maximum Vib (mm, Peak-Peak) ^(h)	<0.12
Maximum Moisture (mg)	< 500
Maximum Impurity (mg)	< 100
Highest Running Pressure	
High Side (Mpa)	3.0
Low Side (Mpa)	2.0

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NOTES:

- a) Test Condition: First Rated Running Point
- b) Test Condition: ET 10, CT 65°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 @10°C / Refrigerant Saturation Pressure @65°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 80 dB(A)
- h) Running @ First Rated Running Point, Maximum Displacement Under Normal Direction When Compressor Running

*2 Standard Configuration:

- Ground Screw
- Suction Fitting And Discharge Fitting connected by high pressure stop valve
- Square Terminal Box Cover
- Without Liquid Injection Nor Vapour Injection
- With 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	-6.7 °C
2	Condensing T	48.9 °C
3	Ambient T	35.0 °C
4	Return Gas T	4.4 °C
5	Superheat K	11.1
6	Subcooling K	0

*4 Internal Protection Parts

- Internal Motor Protector
- Internal Pressure Release Valve



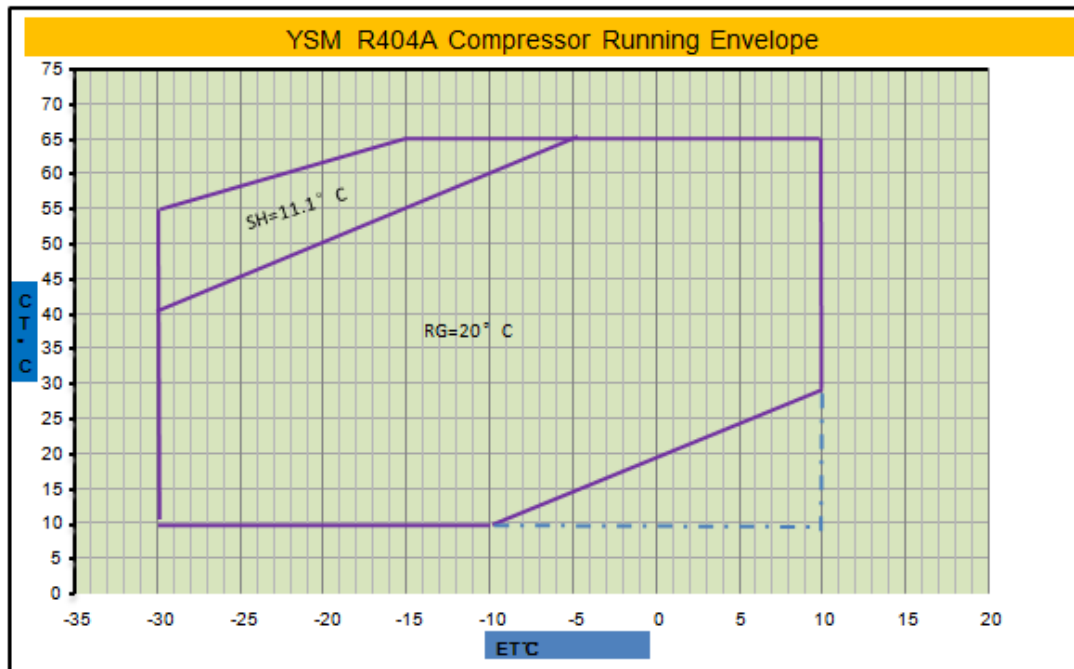
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Pressure Release Valve Open Range: 2.76--3.10Mpa

*5 Compressor Running Envelope



*6 Compressor Performance Data Sheet

Invotech YM235E1G-100 R404A Compressor Performance Sheet										
		-30	-25	-20	-15	-10	-5	0	5	10
Cap W	60			14262	14507	16730	20797	26571	33918	42702
	50	10092	10780	12501	15725	20316	26140	33061	40945	49654
	40	10698	13283	17506	22622	28495	34990	41972	49305	56854
	30	13558	18781	24421	30343	36411	42491	48446	54142	59444
Power W	60			14794	15666	16101	16257	16292	16363	16628
	50	10106	11407	12115	12388	12383	12259	12174	12284	12749
	40	8447	9102	9324	9270	9098	8967	9033	9456	10392
	30	6696	6977	6985	6877	6811	6945	7436	8443	10124

Cap And Power Is Under 20C Return Gas, 0 C Sub cooling.

Cap And Power Of Pink Area Is Under 11.1C Superheat, 0C sub cooling.



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*7 Compressor Outline Dimensions

