
 INVOTECH	Invotech Scroll Compressor Specification
Comp Model	Air-condition Used Comp YH355A7-210

*1 Compressor Basic Performance Specification

Model	YH355A7-210
Refrigerant	R22
Cap (W) ^(a)	43310
Displacement(m ³ /h)	39.5
Power Input (W) ^(a)	12269
Running Current (A) ^(a)	36.8
Coefficient Of Performance (COP) ^(a)	3.53
Rated Voltage (V)	220V
Phase/Hertz	3P/60Hz
Lowest Running Voltage (V)	198
Highest Running Voltage (V)	242
Lock Rotor Current (A)	290
Highest Running Current (A) ^(b)	52.3
Motor Speed (R/Min) ^(c)	3500
Comp Weight With Oil (Kg)	54
Oil	3GS (Coefficient Of Viscosity 32)
Oil Charge (First Charge, L)	2.70
(Recharge, L)	2.60
Lowest Voltage Start (V) ^(d)	187
MOV (V) ^(e)	198
Motor Insulation Temperature	130°C
Resistance @ 25 °C Ambient (Ω)	0.22(± 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)	77
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 11.9°C, CT 65.5°C, Running @ 90% Rated Voltage
- c) Test Condition: 220V, 60Hz, 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 82 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
- With oil and gas balance adaptor
- Mount Kits (4 Sets)

*3 Test Condition (220V, 60 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

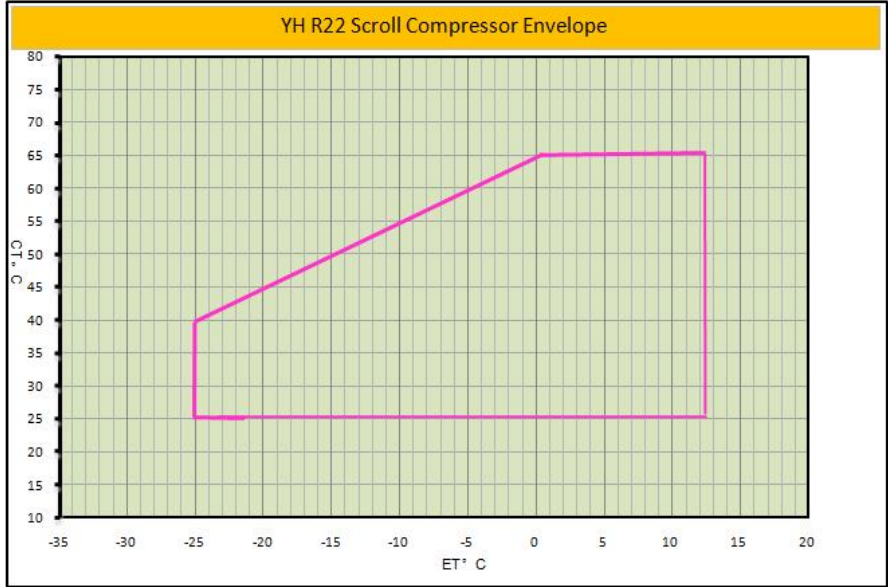
Pressure Release Valve Open Range: 2.76--3.10Mpa



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*5 Compressor Running Envelope



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

*6 Compressor Performance Data Sheet

Invotech Scroll YH355A7-210 Compressor Performance Sheet								
		-20	-15	-10	-5	0	5	10
Cap W	65					31671	34367	41565
	55			22741	27206	33355	40260	47763
	50		19642	23790	29243	35636	42822	50264
	45	16836	20472	25437	31354	37918	45286	52704
	40	17507	21814	26995	33001	39857	47153	55205
	35	18629	23168	28609	34843	41602	49007	57706
	25	20325	25120	30171	36966	43566	51862	59902
Power W	65					15464	15597	15730
	55			12257	12354	12403	12511	12596
	50		10769	10926	11072	11120	11289	11386
	45	9571	9644	9825	9874	9995	10055	10382
	40	8506	8712	8760	8881	9027	9039	9390
	35	7515	7684	7901	8034	8100	8264	8544
	25	6437	6655	6921	7079	7381	7417	7514

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)