



939518 Motoc.LG SCROLL SR055YAB-4.5HP-11620fr



MODEL : SR055YAB



(Preliminary)

Notice !
Specifications are subject to change without notice.
If you want to confirm this spec ,
please request the decided approval sheet again.

1. Specification

1.1 Compressor

1	Compressor Model Name	SR055YAB
2	Compressor Type	Hermetic Motor Compressor
3	Compression Type	Scroll Type
4	Displacement	77.85 cm ³ / rev
5	Refrigerant	R22
6	Oil / Oil Charging Amount	4GSI or NM56 / 1,800 cc
7	Nitrogen Gas Holding Pressure	0.4 ± 0.2 kg/cm ² G
8	Painting	Black Color Paint
9	Net Weight (Including Oil)	38 kg (83.8 lb)
10	Suction Tube I.D	∅ 22.4 ± 0.1 mm
11	Discharge Tube I.D	∅ 12.8 ± 0.1 mm

1.2 Motor

Motor Type / Starting Type	Three Phase Induction Motor	
Pole / Rated Output	2 Pole / 3900 watts	
Power Source	3 Ph - 380/420volt - 50 Hz	
Rated Revolution	2900 rpm	
Insulation Class	B Class	
Winding Resistance (at 25 °C)	U - V	3.09 ± 7% ohm
	V - W	3.02 ± 7% ohm
	W - U	3.14 ± 7% ohm

1.3 Safety Device

Pressure Relief Valve (Pressure Diff.)	Operation Range	Internal type
	29.0~34.0kgf/cm ² G	



1.4 Performance

		at 380 volt	at 420 volt
Cooling Capacity (± 5%)	[BTU/h]	46,500	47,000
	[Watts]	13,626	13,773
Power Input (±5%)	[watts]	4,227	4,272
EER (±5%)	[BTU/wh]	11.0	11.0
Running Current	[A]	7.8	7.5
Sound Level	[dB(A)]	73 max.	
Vibration	[micron]	50 max.	
Locked Rotor Ampere	[A]	47	57

※) Performance Data measured after 24hours run-in

Starting Condition	Specification	Balance Pressure Condition
at Normal Condition	start at 90% of Rated Voltage(V2) (342 Volt)	Ps / Pd = 10.0 / 10.0 kg/cm ² G
at Overload Condition	start at 95% of Rated Voltage(V2) (361 Volt)	Ps / Pd = 11.0 / 11.0 kg/cm ² G

※) Rating Conditions

Cond. Temp. : 54.4 °C (130 °F)

Return Gas Temp. : 18.3 °C (65 °F)

Evap. Temp. : 7.2 °C (45 °F)

Liquid Temp. : 46.1 °C (115 °F)

Ambient Temp. : 35.0 °C (95 °F)

Noise & Vibration Measuring Points

● Compressor sound is measured according to ANSI/ARI 530-89 standard.

● Compressor vibration is measured by a vibration meter which is contacted compressor body's (A), (B)

REFRIGERACION S.A.
Desde 1946



1.5 Others

Leak Tight Pressure		28 kg/cm ² G
Hydrostatic Strength Pressure	High Pressure Side	130 kg/cm ² G
	Lower Pressure Side	65 kg/cm ² G
Insulation Resistance (with 500V D.C Mega Tester)		50 MΩ Min.
Withstand Voltage		2,200 V- 1 sec. Leakage Current is less than 5 mA.
Residual Moisture / Residual Impurities		200 mg Max. / 80 mg Max.

1.6 Electrical Component

-Not Fixed

2.Delivered Parts List

-Not Fixed

Catálogo Completo



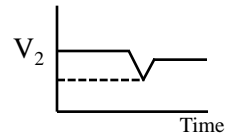


3. Operating Limit

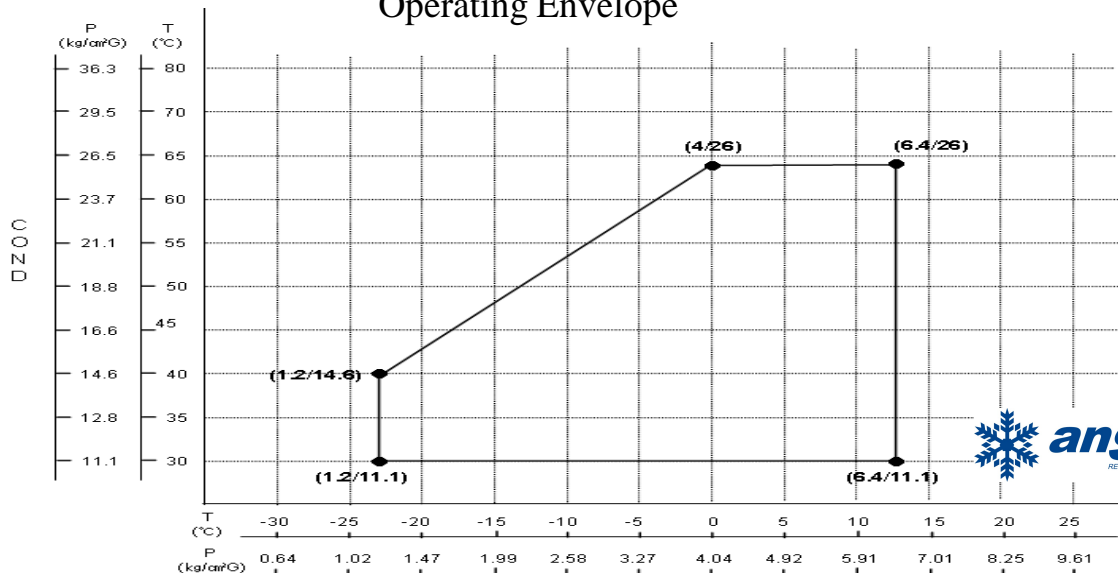
Discharge Pressure	[kg / cm ² G]	11 ~ 26
Suction Pressure	[kg / cm ² G]	3.0 ~ 6.4
Motor Coil Temp.	[°C]	135 Max.
Discharge Temp.	[°C]	130 Max.

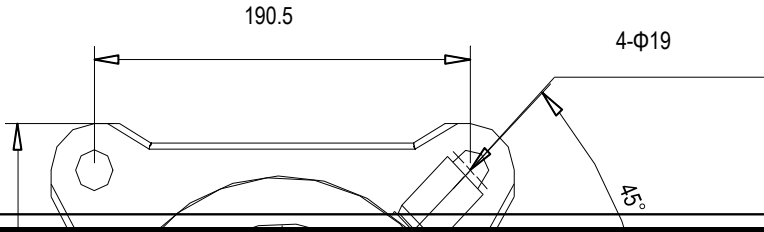
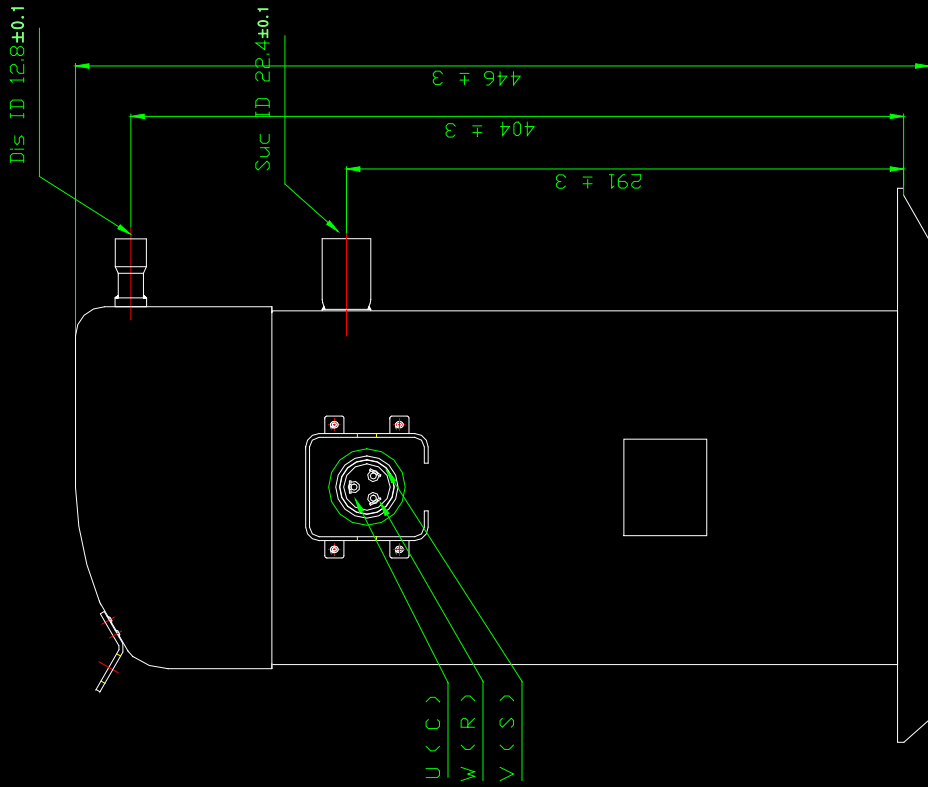
Refrigerant Charge Limit	5,400g Max.
Continuous Flood Back	Continuous Flood Back before the compressor should not be more than 10% of the total circulation quantity of refrigerant.
On/Off Interval & Cycles	On / Off = 3 Minutes / 3 Minutes 20,000 Cycles or less
Voltage Range	Rated Voltage (V ₂) ¹⁾ ± 10 %
Frequency Range	Rated Frequency ± 2 %
Compression Ratio in Operating	The Compression ratio in operating shall be 6.7 or less , except 3 minutes starting period.
Pressure Difference at Starting	When starting, discharge pressure is balanced with suction pressure.
Inclination in Operation	The allowable tilt of the compressor in operation shall be 3° or less
Earth Connection	Use compressor with grounded system only.

¹⁾V₂ means minimum voltage measured between pins of hermetic terminal at the compressor starts.



Operating Envelope





OUT LINE

UNIT | mm | SCALE | N / S

SR055YAB



2. OIL : SUNISO 4GSI OR EQUIVALENT 1800 cc CHARGED
3. NITROGEN CHARGED AFTER DEHYDRATION