1. Application

A/C Type	Cooling & Heating A/C System
Refrigerant Type	**R410A**
Maximal Refrigerant Charged	**1.8**Kg Max
Power Source	Single Phase **1ϕ-208-230V-60Hz**
Safety Approval	**UL**

2. Specification

Compressor Type	Hermetic Motor Compressor
Displacement	**30.0**cm^3/rev.
Oil Charged	ESTER OIL **VG74**·**560** ·ml**±15**·ml
Weight (Oil Included)	**19.45** Kg**±3%** Kg
I.D. of Discharge Pipe	**φ9.8**±0.1mm
I.D. of Suction Pipe	**φ16.2** $^{+0.2}_{-0.1}$ mm

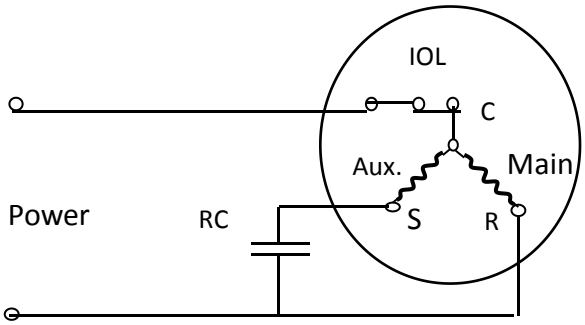
3. Motor Specification

Motor Type	Single Phase Induction Motor· PSC
Pole Numbers	2 Poles
Insulation Grade	E Grade
Coil Resistance(at 68°F)	Main: **0.91**±5%Ω Aux.: **1.17**±5%Ω
Locked Rotor Amps	at **1ϕ-240V-60Hz** **72**±10% A
Ruing Capacitor	**60**μF **≥400**V

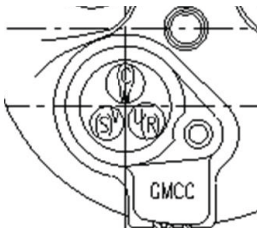
4. Rated Performance Parameters

Rated Capacity	**8910/8945**	±3% W	**30,521 BTU**
Rated Input Power	**2820/2850**	±3% W	
Rated Input Current	**13.70/12.70**	±3% A	
COP(*Remarks) %	**316/314**	±3%	
NOISE dB(A) (Sound Power Level)	★ **81** MAX		
VIBRATION m/s2	★ **20** MAX		

5. Wire Connection Figure



S : START (Aux Winding)
R : RUN (Main Widing)
C : COMMON
RC : Run Capacitor



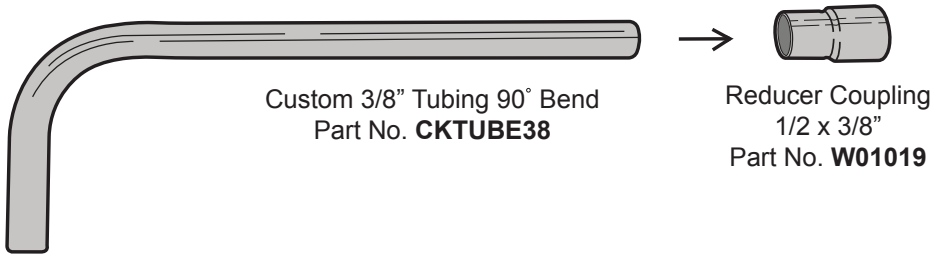
6. Application Notice

1. When design the connection tube, the system should be consider the vibration stress at the compressor start, stop and the system transportation status , ensure it doesn't be damaged. The recommendation value of the connection tube stress is below 34.3N/mm2 at the start, stop status and below 19.6N/mm2 at the running status.
2. Do not put a compressor on its side or turn it over. And do not fall it off when moving.
3. Compressing air is not permitted.
4. Please Assemble the Compressor in Your Air Conditioner Rapidly after Removing the Plugs. Do not leave the compressor for more than 10 minutes without plug.
5. Please use the accessories indicated by Our Company.

6. When the amount of refrigerant charged in the Air Conditioner is over the max amount allowable, compressor specification should be discussed. (Install additional accumulator, oil heater, etc.)
7. Refrigerant must always be filled from the higher side of the refrigeration cycle.
8. Avoiding compressor running in reverse caused by connecting electrical wire incorrectly. (Don't reuse the compressor after running in reverse.)
9. The compressor should be kept out of storing in open storage or corrosive atmosphere such as in a chemicals storage and so on.
10. Do not allow electric cables or the like to touch compressor directly.
11. To avoid water droplets and dust into the compressor , moisture-proof or dust-proof measures must be take.
12. For split type Air Conditioner, the maximum piping length should be 15m, and elevation difference should be within 5m.
13. Do not fill refrigeration cycles with other refrigerant except R32.
14. Do not touch the compressor with bare hands during operation or immediately after stoppage. The compressor is at a high temperature. There is the danger of burns.
15. Wear safety goggles when servicing the unit. When removing the tubes by heating it with a burner, there is the danger of burns or eye injury if the refrigerant and/or oil remaining in the tubes is emitted.
16. Below warning must be written into maintenance and user manual of whole unit:
    WARNING:
    - - When recharge the refrigerant,the processing must be done by the manufacturer or manufacturer appointed repair shop or service agent because correct type of refrigerant must be ensured.
    - - Prohibition of mixing the refrigerants.
17. Do not remove the terminal cover when welding the discharge pipe and a heat shield is required to protect the terminal cover from the impact of welding heat

For Compressor
ASG300N1UMT
Kit **CKASG300**

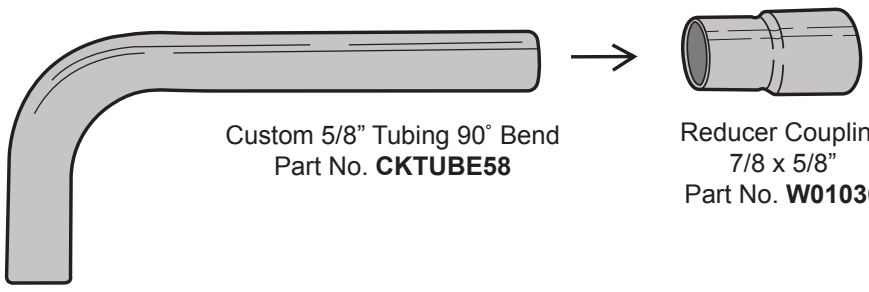
LIQUID LINE



Custom 3/8" Tubing 90˚ Bend
Part No. **CKTUBE38**

Reducer Coupling
1/2 x 3/8"
Part No. **W01019**

SUCTION LINE



Custom 5/8" Tubing 90˚ Bend
Part No. **CKTUBE58**

Reducer Coupling
7/8 x 5/8"
Part No. **W01036**

FOR USE WHEN REPLACING A SCROLL COMPRESSOR

(COMPRESSOR DRAWING)