

*Free Cool reduces the cost of energy. Save up to 70%*

**Hybrid Solar Air Conditioner**



*Be Energy Efficient.. Save Money and your Planet*

*Free Cool reduces the cost of energy. More Save*

Multi Split Hybrid Solar Air Conditioner  
Central Systems



SunTAB Solar Energy L.L.C

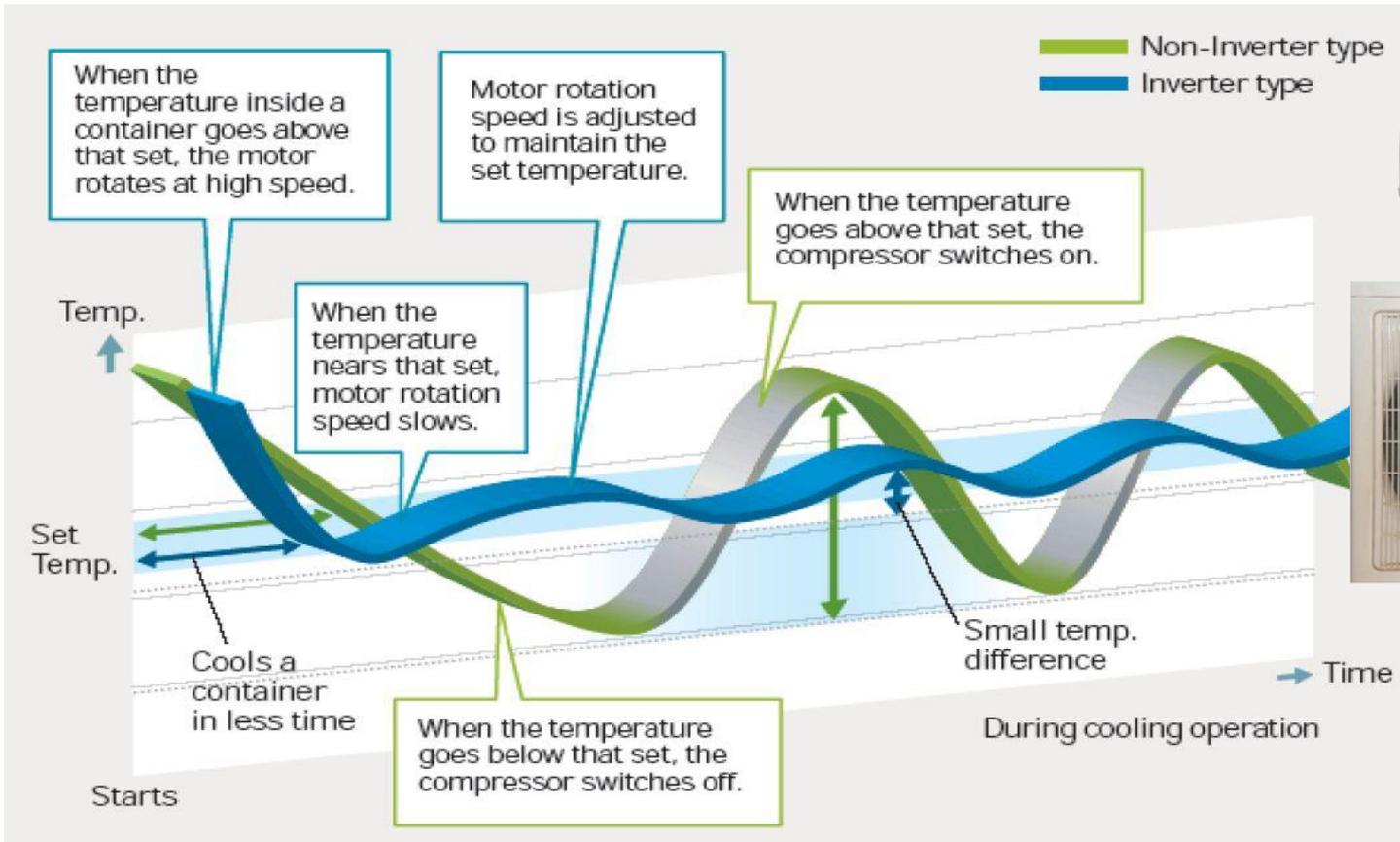
*Be Energy Efficient.. Save Money and your Planet*



*Free Cool reduces the cost of energy. Save up to 70%*



## **Inverter Air Conditioner**



*Be Energy Efficient.. Save Money and your Planet*

## Free Cool Hybrid Solar Air Conditioner

### Why Free Cool Hybrid solar air-conditioner can save electricity?

Here are the reasons:

Firstly, it absorbs solar energy to heat the inside medium by using a solar collector. Freon from the compressor goes through the copper coil inside the collector and undertakes a heat exchange. Freon exchange heat with the medium inside the solar collector then go through a cycle inside the system for cooling and heating.

Secondly, it adopts a highly efficient heat-exchange system. The use of the internal thread pipe, hydrophilic aluminum fin and the optimal heat exchange system reduce energy loss, improve the overall efficiency and effectively ensure the performance. Therefore, hybrid solar air conditioner is more convenient and energy-saving than regular air conditioner.

### Comparing to Current Products

1. Conventional air conditioner consumes too much, users have to pay a heavy electricity bill.
2. Photovoltaic (PV) system costs a large amount of money to build up.
3. Thermally driven absorption cooling is also very costly, and its cooling capacity is not big enough.



SunTAB Solar Energy L.L.C



## Performance Characteristics

High efficiency, energy-saving, comfortable and money saving, exceeding national first grade energy standard. Durable and long-lived, smooth running .

Low-loaded operation of the compressor to extend its duration.

Healthy and comfortable, constant temperature and keeping air conditioner disease away.

It is not frequency conversion air conditioner but superior to it because conversion type begins to save energy when the indoor temperature reaches the set value, while the hybrid solar air-conditioner runs in the optimal state immediately after starting and it achieves the same effects of traditional air conditioner with less power consumption.

Super luxurious appearance decorates your home .Indoor panel adopts aluminum alloy and wire drawing metal color board to make your house more sparkling.

Automatic open and close dustproof air outlet.

Easy installation, same as the traditional air conditioner.

With strong adaptability, Free Cool hybrid solar air conditioner can run at super low and high temperature from  $-7^{\circ}\text{C}$  to  $53^{\circ}\text{C}$ .

Exceeding the national standards and applicable to all kinds of environment

### High Performance Japanese Brand Compressor

Durable and long-lived, smooth running. Low-loaded operation of the compressor to extend its duration.

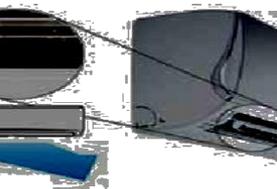
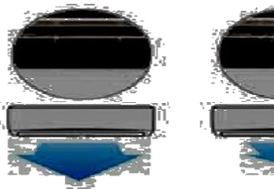
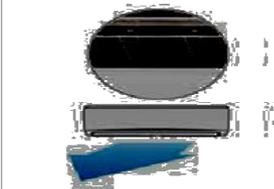
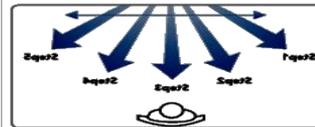
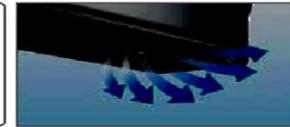
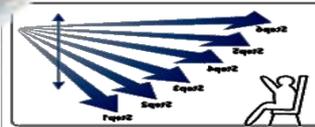
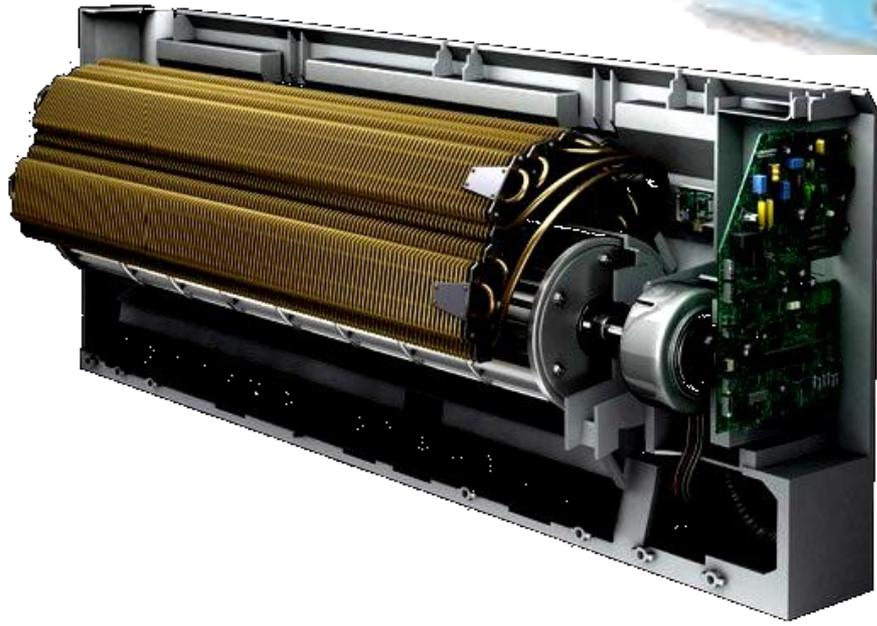
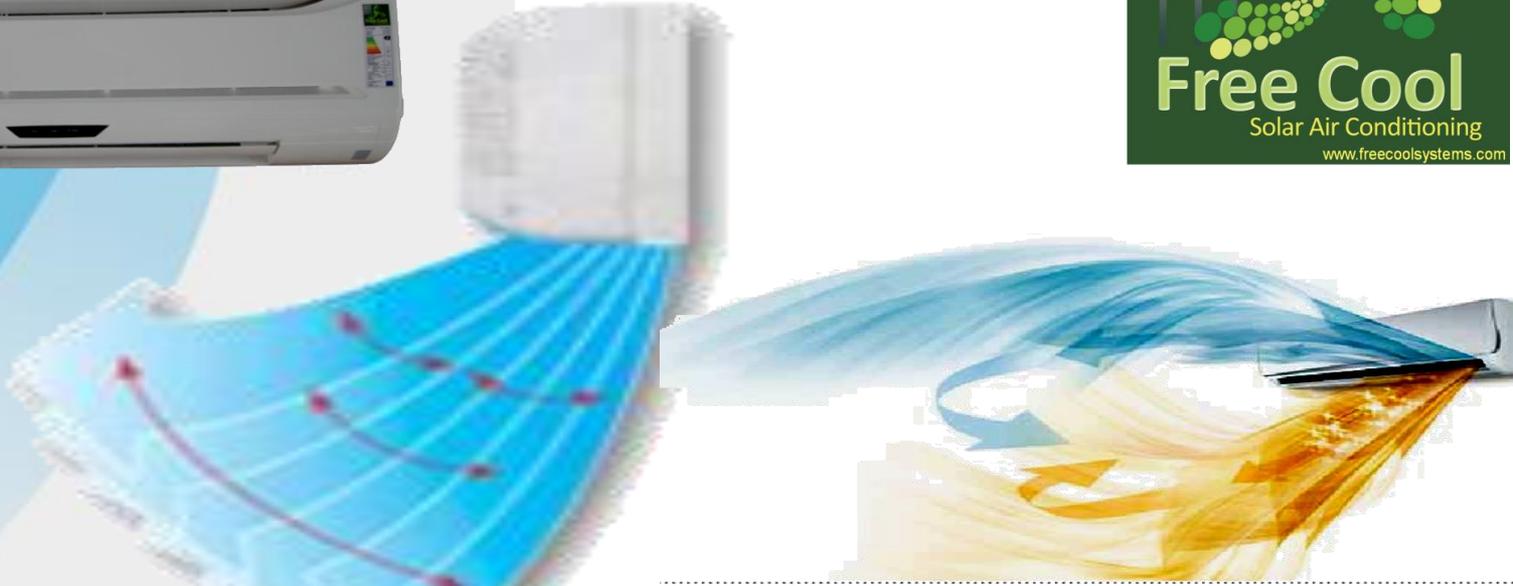
*Free Cool reduces the cost of energy.*



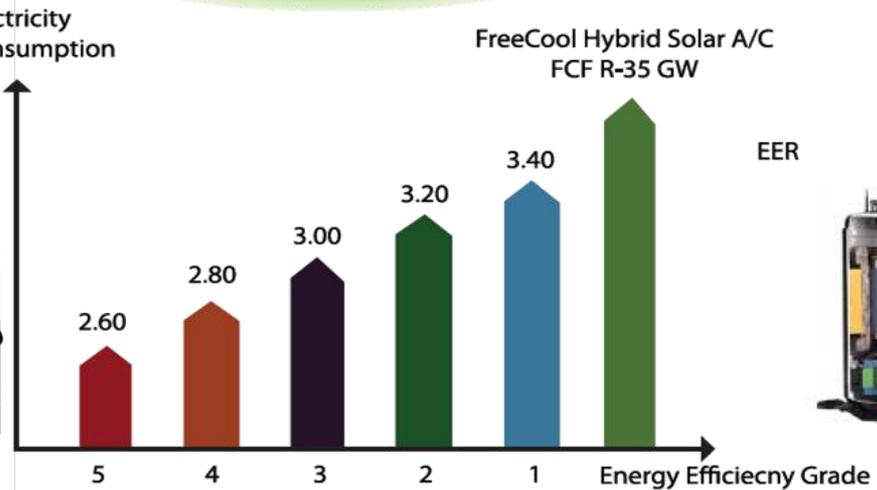
# Free Cool Hybrid Solar Air Conditioner air flow diagram



17m



# Free Cool Hybrid Solar Air Conditioner Is an Eco Friendly Systems



The above compare data are from wall mounted type air conditioner with cooling capacity less than 4500 W

# Enjoy Free Cool Peace of 26 dB

Fresh and quiet  
Calm, mute and full enjoyment  
Sound sleep of baby-hood



**Super Silent Design, Enjoy the Tranquil Life.**

After a busy day, we need a quiet and comfortable rest space, a relaxing home and warm harbor. FreeCool conducts silent design for the entire system. The wind speed is reduced to 26 dB so that you barely aware the running of our air conditioner. (Supreme Silent Series)

- A. Low-resistance return air grille design
- B. Panel rectification return air inlet design
- C. Fan blade shape design
- D. Bent design of heat exchanger backwash
- E. Small vortex tongue design
- F. Back intake airflow optional design
- G. Small radian design on the back
- H. Non-pressurized air outlet design
- I. Low resistance ventilation grille mute design
- J. Low resistance air supply blade design

**Excellent Cost Performance, Eco-friendly Saving Electricity and Money.**

Free Cool runs out higher cost performance air conditioner hybrid solar air conditioner according to the real situation of the world which is with higher efficiency and lower running cost.

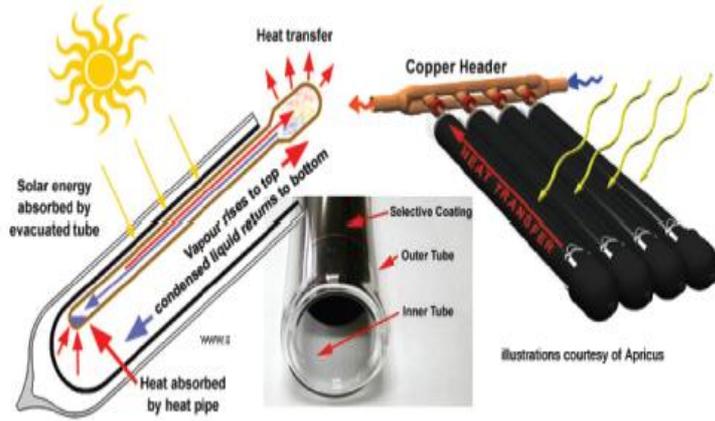
Four fold Heat Exchanger  
Hydrophobic Aluminum Foil  
High quality internal threaded copper pipe



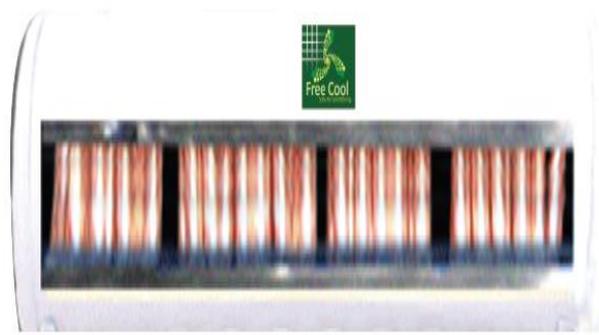
SunTAB Solar Energy L.L.C



# Why Free Cool Hybrid solar air conditioner can save electricity ?



- Condensing water supply from indoor unit providing cautious temperature consistency
- Inner reinforced water tank terminal heating inner shell is made of food grade stainless steel
- Add liquid before operation when the first installing
- 55 mm polyurethane insulation providing good heat storaction.



High-efficiency inner threaded copper coil exchanger

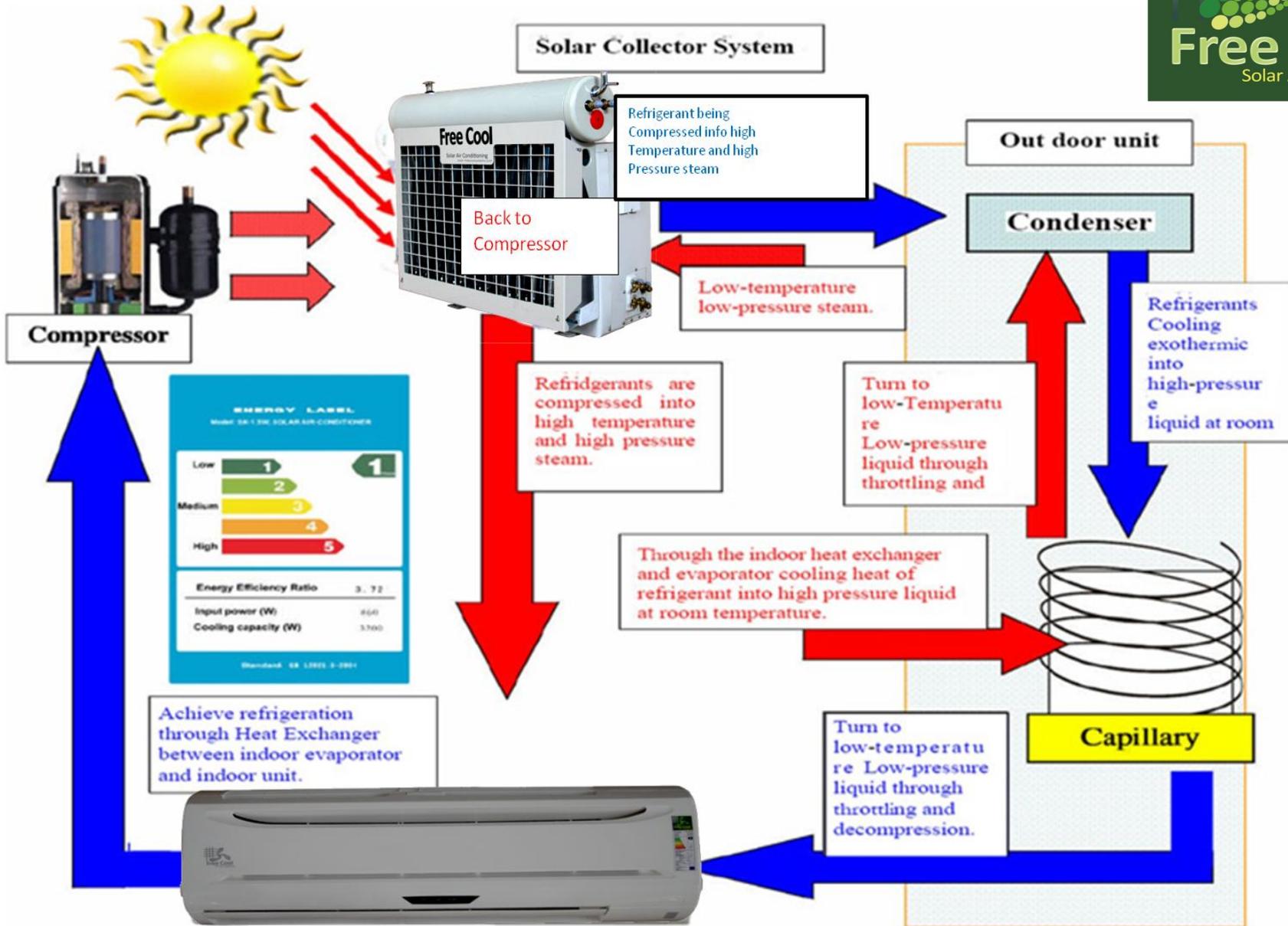
Silicon running connect and seal the vacuum tubes with an absorption rate of 93% and terminal radiation 6%.

Stable solar conversion throughout the day (vacuum tubes passively track the sunshine)

Four the copper line connection solar collector and indoor unit



# Why Free Cool Hybrid solar air conditioner can save electricity ?



# Free Cool Air Conditioning Systems



Hybrid Solar Air Conditioner



Multi Split Inverter Air Conditioner



# Free Cool Multi Split Inverter Air Conditioner Central Systems



## Specifications

Free Cool multi split inverter air conditioner central system hanger air conditioner  
multi split inverter air conditioner central system

Air conditioner multi-split air conditioner dual split air conditioner ,hanger air conditioner  
Split type wall mounted air conditioner split air conditioner wall mounted air conditioner  
wall air conditioner air conditioning central air conditioner commercial air conditioner Solar  
air conditioner inverter air conditioner, window type air conditioner, mobile air conditioner  
portable air conditioner, movable air conditioner, floor standing air conditioner cabinet air  
conditioner, cassette type air conditioner, ceiling floor air conditioner, duct air  
conditioner, T3 tropical air conditioner

## Dual air conditioner, air conditioner multi split/air condition multi split:

- 1) Capacity Range: Two indoor, three indoor, four indoor could be choose 9000btu+9000btu, 12000btu+12000btu, 900but+12000btu, 9000btu+18000btu, 12000btu+18000btu, 9000btu+9000btu+9000btu, 12000btu+12000btu+12000btu, 9000btu+9000btu+18000btu, 18000btu+18000btu+18000btu, 9000btu+9000btu+9000btu+9000btu, 12000btu+12000btu+12000btu+12000btu, 12000btu+12000btu+12000btu+18000btu
- 2) The refrigerant can be: R410A, R407C or R22
- 3) Normal type or R410A DC Inverter type, saving power by 30 to 50%
- 4) Quiet operation with low noise level
- 5) With auto defrosting system, powerful heating even at low ambient temperature -15 Centigrade lowering temperature.



# Free Cool Inverter Air Conditioner



## Product Description

Free Cool inverter split air conditioner takes Japan inverter technology, with good in design and better in performance.

Features of FREE COOL inverter split type air conditioner R410A A class series:

Capacity range: 9000btu,12000btu,18000btu,24000btu

Instant cooling

Quiet operation

Constant temperature dehumidification

Remove smell when starting

With CE/CB/RoHS approval

50-60HZ both are available.

Energy class: A+ or 5 star +

The unit can work under low ambient temperature of -10 Centigrade.



SunTAB Solar Energy L.L.C



# Free Cool Solar Air Conditioner Systems 20000 BTU ,12000BTU FCF 160 GW , FCF 135GW



**Wall Mounted Type**

**Floor Standing Type**

Model		FCF 160 GW	FCF 135 GW	FCF 120 GW
Capacity	Rated	16000	13500	12000
Rated	16000	13500	12000	
Max	16000	13500	12000	
Power	Rated	1200	1000	900
Max	1200	1000	900	
Current	Rated	5.5	4.5	4.0
Max	5.5	4.5	4.0	
Power	Rated	1200	1000	900
Max	1200	1000	900	
Capacity	Rated	16000	13500	12000
Rated	16000	13500	12000	
Max	16000	13500	12000	
Power	Rated	1200	1000	900
Max	1200	1000	900	
Current	Rated	5.5	4.5	4.0
Max	5.5	4.5	4.0	

Parameters are measured in the rated working condition unless specified otherwise. All data are subject to change without notice. © 2011 Free Cool Solar Air Conditioning Systems. All rights reserved.



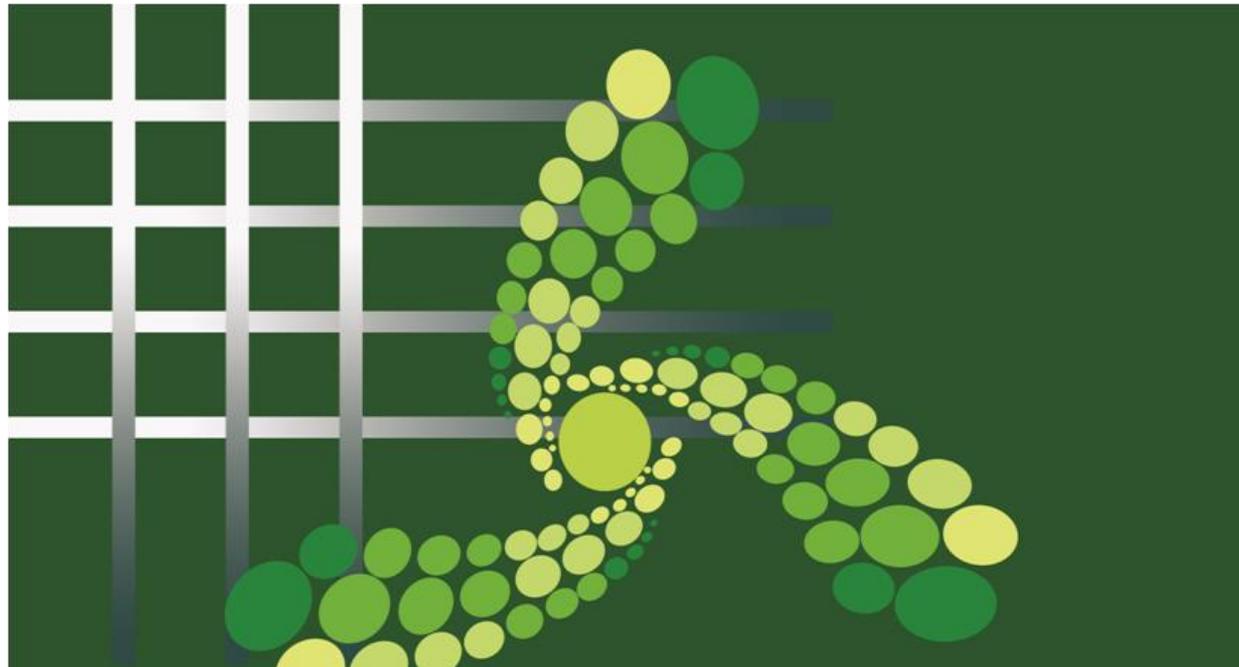
SunTAB Solar Energy L.L.C



# Free Cool Hybrid Solar Air Conditioner



SunTAB Solar Energy L.L.C



**Free Cool**  
Solar Air Conditioning  
[www.freecoolsystems.com](http://www.freecoolsystems.com)



**Thank you**



SunTAB Solar Energy L.L.C

