



Solar Air Conditioner

- Energy efficient
- State of the art
- Intelligent technology driven
- Environmentally and user friendly
- Exceptional quality
- Built to last in an ever changing environment
- A price everyone can afford.


www.constraintl.com

FREQUENTLY ASKED QUESTIONS

Does the SOLAR AC need both conventional electricity and solar energy to function?

Yes, the SOLAR AC includes just like any other DX unit, both a compressor and a fan, except that thanks to our technology the compressor is much smaller than the a standard one with equivalent capacity.

Does the Solar AC function in cloudy days?

Whether it is sunny, cold, or cloudy, you would still use both sun and electricity to run the SOLAR AC, UNLESS you buy our power generating module, batteries, etc. which will make the unit totally independent of conventional electricity network. In that case the electricity produced by our panels is sufficient and the electricity stored in the batteries runs the unit for about 12 hours nonstop, enough to get you through a long night for two or three days without recharging.

If the SOLAR AC does need both sources of energy, is there a SOLAR AC that functions solely on solar energy?

Not without electricity per se but using the optional electricity production module described above, you will make an extra initial investment and run the unit absolutely free.

In the SOLAR AC packages, are the solar panels included?

Funny Enough, the SOLAR AC does NOT operate off conventional Photovoltaic panels, but off solar vacuum tubes that in reality do not depend on the sun only but on the heat. The heat of the sun causes a chemical reaction in the tubes that help us drive the 'solar' part of the SOLAR AC. But to answer your question, YES those vacuum tubes are shipped with our SOLAR AC. You will not need anything with it.



What is the Origin of your Products?

The origin of our product is American/Japanese and can be shipped from the US/Shanghai or from any of our distribution hubs in Lebanon and Qatar.

What are the capacities available?

Capacities range from 1 ton to 3.5 tons of cooling and heating.

What does the indoor unit look like?

Our indoor units can be wall mounted split type, floor cabinets, ducted split, or Cassette type.

I wish to know what type of gas is used in the system.

The refrigerant (R22 or RC07) is the standard one used in most DX units around the world.

What is the basic role of the solar collector? In normal installations we need to remove the heat from the condenser and not adding it with a solar collector!?

The vacuum tubes (not exactly a solar collector) operate as heat collector in fact.

When heated, a chemical reaction inside the tubes removes part of the work load off the compressor. Physically, the thermal collectors help to provide refrigerant being compressed into high temperature and High pressure steam, which reduces the work load of the compressor, Hence the energy saving. You still have the fan removing heat from the condenser as in any other unit.