

The Best of German & Swiss Technology at Indian Prices

: Brought to you By :

# SHARADA INVENTIONS

## **BHASKAR**<sup>®</sup> SOLAR AIR CONDITIONING SYSTEM

(Technology and Product Approved and Certified by I.I.T. , Mumbai)

Outcome of intensive research at SHARADA INVENTIONS brings, unique revolutionary concept in the world of Air Conditioning. Yes! We offer Solar Air Conditioning System based on high COP absorption cooling systems.

The novel feature of our system is that it does not have compressor and it is free from Ozone depleting CFC.

The true Air Conditioning means not only delivering just cool Air at preset temperature, but that cool air has to be delivered with Controlled Relative Humidity. **BHASKAR Solar Air Conditioning System offers the "TRUE CONDITIONED AIR"** providing you most comfortable environment.

**BHASKAR** Air Conditioning system are based on Solar Energy, which is FREE for Ever, resulting in tremendous savings of electricity bills.

**BHASKAR** Solar Air-Conditioning System are currently available for large-scale centralized applications, with capacities of 10 TR and above. In near future the Solar Air Conditioning System will be introduced for household applications..

### Features:

- ❖ No moving parts, Silent, No compressor, hence No costly maintenance.
- ❖ No CFC, 100% Eco Friendly design an Effective step to protect Ozone depletion.
- ❖ Novel concept using Solar Thermal Energy for Air Conditioners.
- ❖ Operates above 93% COP.
- ❖ Sub zero temperature possible.
- ❖ Wide range of capacities varies from 10TR. to 600 TR even above.
- ❖ Large parabolic Solar Concentrator offers most efficient output.
- ❖ Centrally controlled automatic Sun Tracking mechanism.
- ❖ Extended period of operations possible even after Sunny hours.
- ❖ Do not require highly qualified personnel to maintain the system.
- ❖ Attractive and Elegant FCU's.
- ❖ True RH control for most comfortable environment.

### Benefits :

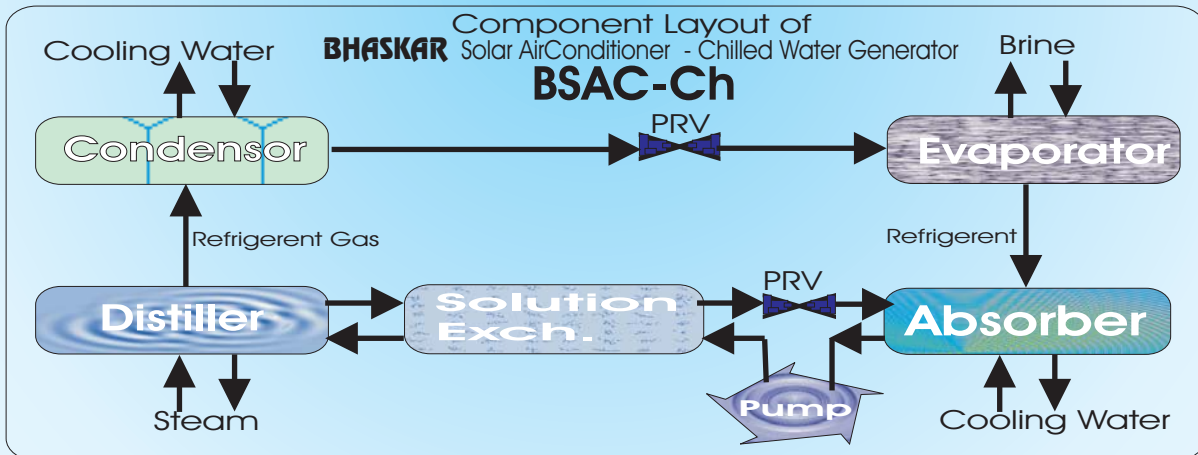
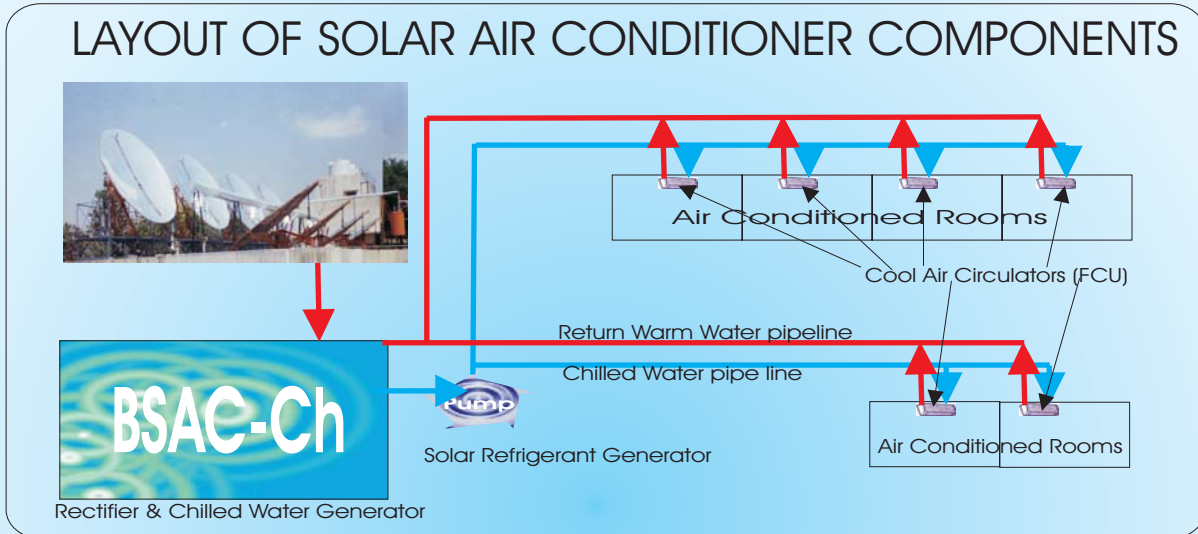
- ❖ No compressor hence 100% saving on Electricity bills towards largest power consuming component i.e. Compressor.
- ❖ Free hot water approx. 10,000 Ltrs. Per Day @ 55<sup>o</sup> C from 10 TR system.
- ❖ No need to have additional system for Hot Water Generation. which results in saving on capital investment as well as on running cost.
- ❖ Free cool drinking water approx 1,500 Ltrs. Per Day @18<sup>o</sup> C from 10 TR system.
- ❖ Pay back period works out to be less than two years.
- ❖ 100% depreciation in 1<sup>st</sup> year itself under section 32 of income tax Act 1956.
- ❖ Subsidy to the tune of 50% from MNES on Solar System.
- ❖ Revenue / income can starts from 3<sup>rd</sup> year itself by way of saving the energy cost.
- ❖ User can be eligible for getting World recognized Eco-friendly awards.
- ❖ Can easily be configured to existing system with quick change over mode.

**YOUR GESTURE OF CONSIDERING SOLAR SYSTEM IS A MATTER OF PRIDE  
AND  
COULD BE REMARKABLE EXAMPLE TOWARDS POLLUTION FREE INDIA !!!**

## Principle of operation:

Solar Refrigeration system is based on Heat instead of Electricity, having Thermal Compression technique instead of Mechanical Compressor. TCS (Thermo Cool System) is a Heat-Operated unit that uses special refrigerant which is alternatively absorbed and released. The function of the Compressor in Vapour Compression Refrigeration (VCR) system is replaced by Thermal Compressor made up of an Absorber, a Solution Pump, the Refrigerant Generator & Rectifier. In an Absorber, the Refrigerant Vapour from the Evaporator is Absorbed in a weak solution. This increases the pressure and the solution is then passed to the Generator via liquid-liquid heat exchanger. Moreover, water is added into a cycle to assist suction & discharge of refrigerant by cooling & heating.

Sub zero temperatures even up to  $-20^{\circ}\text{C}$  are possible in our system. Thermo-Cool Absorption machine excels in reliability, that in turn reduces maintenance and repairs requirement to an utter minimum, without requiring highly qualified operating personnel.



## SOLAR ENERGY FREE ENERGY CLEAN ENERGY FOR EVER

(SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE)

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