

BE SMART ...BUY SOLAR

THINK DIFFERENTLY...INSTALL SUSTAINABLE

## **Solar Airconditioning : Cooling with Solar Heat**

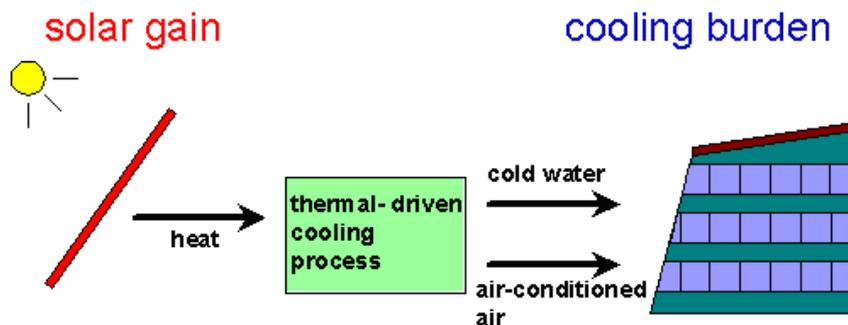
Sunny summer days are beautiful, yet in the office a hot day can be altogether stressful. Because productivity can suffer under such conditions, more and more buildings are being fitted with air-conditioning systems. This is where solar air conditioning comes in: The summer sun, which heats up offices, also delivers the energy to cool them. The thermal use of solar energy offers itself: Days that have the greatest need for cooling are also the very same days that offer the maximum possible solar energy gain.

The demand for air conditioning in offices, hotels, laboratories or public buildings such as museums is considerable. Under adequate conditions, solar and solar-assisted air conditioning systems can be reasonable alternatives to conventional air conditioning systems.

Flat plate glazed solar collectors for hot water and hot air production have been used since many years for thermal solar applications . Thanks to their excellent thermal exchange properties they now also can be applied for non-solar applications , namely for indoor temperature air-conditioning and cooling .

There are 3 possible ways of using Solar thermal heat in the Cooling Industry: Refrigeration, Cooling and Air-conditioning.

Principle of solar cooling:



**EWA-TEC** proposes the innovative Solar Cooling unit as a cost-effective and alternative solution for conventional airconditioning . The main advantage is that the thermally powered cooling process requires only a fourth (absorption/adsorption) or half (sorption-assisted air conditioning) of the electrical power required by the conventional reference system.

Application: Ideal for cooling of office buildings, conference rooms, shopping centres, entrance hall, laboratories etc.



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