

## **New solar air-conditioning system**

Sole S.A., Greece, has installed the world's first solar air-conditioning system at Gr. Sarantis S.A., a cosmetics company. This system uses 2,700 m<sup>2</sup> of selective flat plate solar collectors and air-conditions an area of 22,000 m<sup>2</sup>. The cold (in summer) and hot (in winter) water goes to the air handling units installed in the building and in the form of cold or hot air the building is air-conditioned. The whole operation of the system is controlled by a PLC. In summer, the solar collectors supply water at 75°C to the two "solar chillers" with a total capacity of 700 kW. During winter, the collectors circulate 55°C hot water directly to the space being heated.

Climasol air-conditioner can be installed in any building and may be combined easily with all typical air-conditioning systems. A super-efficient solar collector produced utilizing TINOX ultra-selective surface is at the heart of this solar air-conditioner. The solar chiller cools hot water in a totally natural way, by the process of condensation and evaporation of the "cooling medium" (water) under vacuum conditions. Three models of Climasol air-conditioners are available:

- Climasol 70: 300 m<sup>2</sup> of Climasol collectors can air-condition an area of 1,200-2,000 m<sup>2</sup>;
- Climasol 350: 1,500 m<sup>2</sup> of Climasol collectors can air-condition an area of 6,000-10,000 m<sup>2</sup>; and
- Climasol 175: 750 m<sup>2</sup> of Climasol collectors can air-condition an area of 3,000-5,000 m<sup>2</sup>.

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