

Clima

Solar System



**THERMAL SOLAR POWER +
PHOTOVOLTAICS =
INDOOR COMFORT ALL YEAR
ROUND WITH NO ENERGY BILL**

- Domestic hot water
- Indoor heating
- Air conditioning

The growing SOLAR SYSTEM family announces a new member: a compact solar unit that can control the supply and distribution of energy from multiple sources needed for producing residential hot water, heating and air conditioning in a completely new and efficient manner.

Our range of products includes various models for controlling the energy output from the solar panels, the gas-fired boiler and the burner.

The TOTAL model includes a heat pump for indoor heating during the winter months and chilled water for indoor air conditioning in the summer, in addition to producing domestic hot water all year long.

Finally, the TOTAL CLIMA SOLAR SYSTEM can release you from reliance on gas.

All you have to do is mount a small 1kWp photovoltaic module and a few thermal solar panels to achieve indoor climate control energy independence.



**COSTRUZIONI
SOLARI**



CLIMA SOLAR THERMAL SYSTEM units are available in the following sizes:

Boiler combi 600\150 : 522-liter heating store -140-liter domestic hot water store

Boiler combi 750\180 : 598-liter heating store -175-liter domestic hot water store

Boiler combi 1000\200 : 665-liter heating store - 190-liter domestic hot water store

Boiler combi 1500\300 : 1,145-liter heating store - 300-liter domestic hot water store

Example of a system for a Class B 120 m² residence

(Energy performance index of 40kWh/m² year)



1 600/150 TOTAL Thermal Solar System

4 Panda 2.6 thermal solar collectors (10 m² net total absorbing surface)

1 34.000 BTU/h heat pump with absorption of 2.5 kW

1 kWp photovoltaic module (optional)

With the thermal solar panels, the system can provide more than 60% of an average family's domestic heating and hot water energy needs (50% in Lombardy, 70% in Sicily). The heat pump generates heat for the system in winter and produces chilled water for air conditioning in the summer. In fact, the annual domestic heating energy consumption for the cited residential area is 6,200 kWh. Of this total, 60% is supplied by thermal solar power (3,720 kWh/year FREE) and 40% is supplied by the heat pump (2,480 kWh/year for a total of € 160 in electrical power consumption). Adding an extra € 140 for summer air conditioning results in an overall outlay of € 300, covering your energy needs for an entire year.

By inserting a small photovoltaic module (1kWp), you can cover power consumption by the heat pump and provide full energy independence to your entire family.