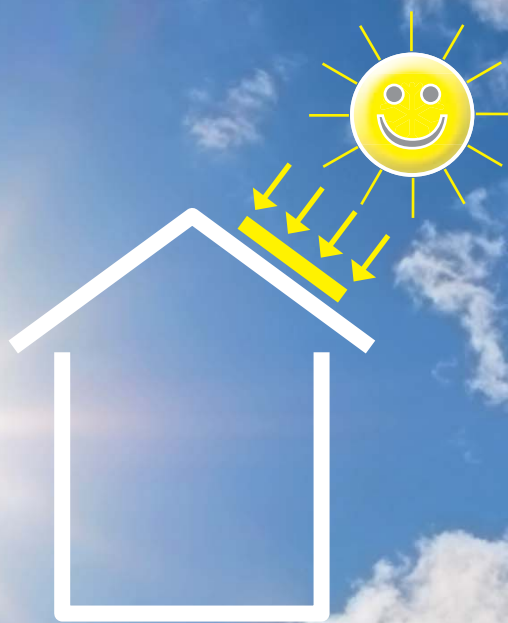




**giac**  **sun**  
**SOLAR THERMAL  
PANEL SYSTEMS**

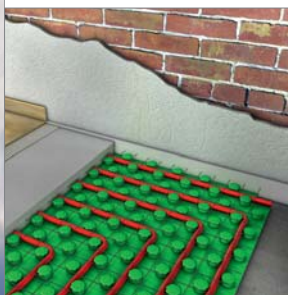
**GIACOMINI**   
*Technology in Comfort*



The solar energy captured from the thermal solar panels produces free of charge sanitary hot water, and covers most of the annual requirements, reducing the use of the traditional boiler.



The solar energy can effectively integrate heating during the intermediate seasons; an ideal application especially when used with radiant panel systems.



Each kWh produced converting the rays of the sun to thermal energy creating sensible energy saving, when compared with other more expensive fuels.



Limiting the use of fossil fuels is not only economically convenient, but it reduces on the environment and the climate the negative impact of daily actions needed such as washing and heating houses.



What's more it's Giacomini! The Italian company which is trusted throughout the world as a leader in the field of component and heating systems, conditioning and sanitary distribution.





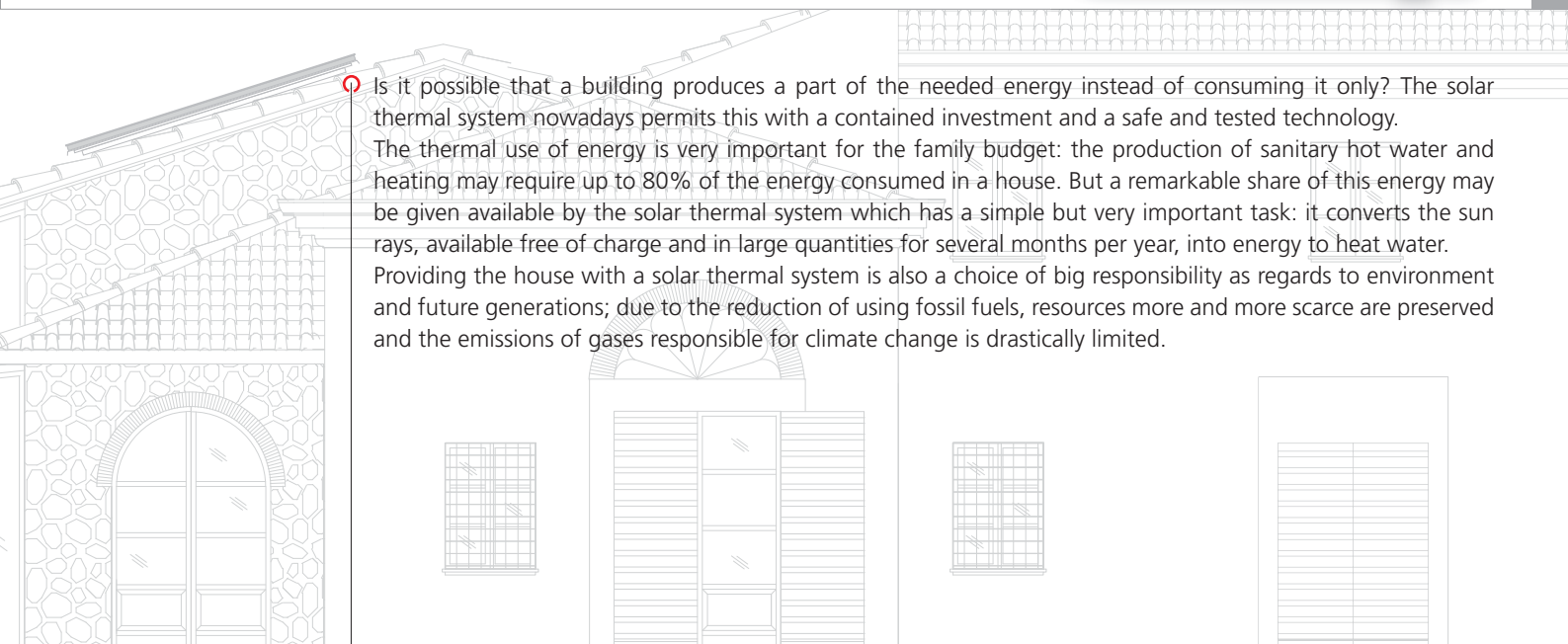


Drawing made by the children of Giacomini's nursery school, for the "ENERGY" project.



## SOLAR THERMAL SYSTEM: AND THE HOUSE CREATES ITS OWN ENERGY

- Is it possible that a building produces a part of the needed energy instead of consuming it only? The solar thermal system nowadays permits this with a contained investment and a safe and tested technology. The thermal use of energy is very important for the family budget: the production of sanitary hot water and heating may require up to 80% of the energy consumed in a house. But a remarkable share of this energy may be given available by the solar thermal system which has a simple but very important task: it converts the sun rays, available free of charge and in large quantities for several months per year, into energy to heat water. Providing the house with a solar thermal system is also a choice of big responsibility as regards to environment and future generations; due to the reduction of using fossil fuels, resources more and more scarce are preserved and the emissions of gases responsible for climate change is drastically limited.











#### SOLAR KEYMARK

It represents the European quality mark for products destined to solar thermal systems. Choosing Solar Keymark products means automatically satisfying the European standards, as a guarantee of high quality and reliable information about the information readily available. In Europe the Solar Keymark is considered a reference for national and regional bodies to grant fiscal contributions and benefits for private and public projects.

## INSTALLATION FREEDOM, GUARANTEED AESTHETICS

- The panels are essentially components which capture the energy of the sun; but their layout on the outside of buildings requires particular attention. On one hand you have to solve the eventual installation restrictions, on the other hand you need to guarantee aesthetics without compromise.

The range of giacosun solar panels offers suitable guarantees in each situation: it gives freedom concerning the assembly that can occur on flat roofs, inclined ones or on faces. The different panel versions allow vertical or horizontal installation; the version to be embedded is even integrated on the roof replacing the tiles.

giacosun solar panels have been designed with particular care to integrate them with the building. The special colouring of the collector, made with a bronze coloured film, always guarantees a pleasant and discreet insertion of the panels into the roof. The version to be embedded offers a valuable aesthetical combination even where windows are expected to be integrated into the roofs.

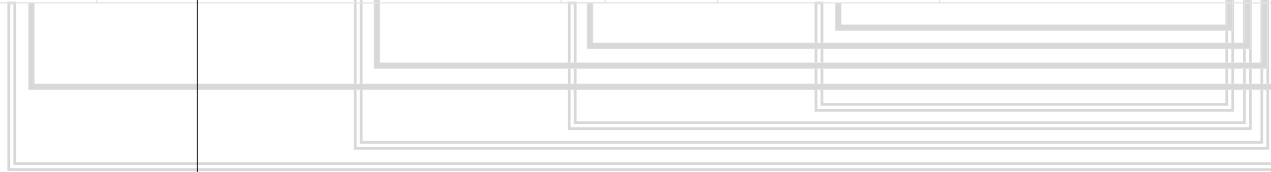
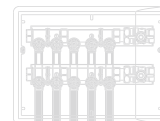
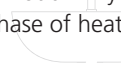
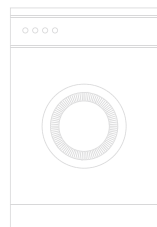




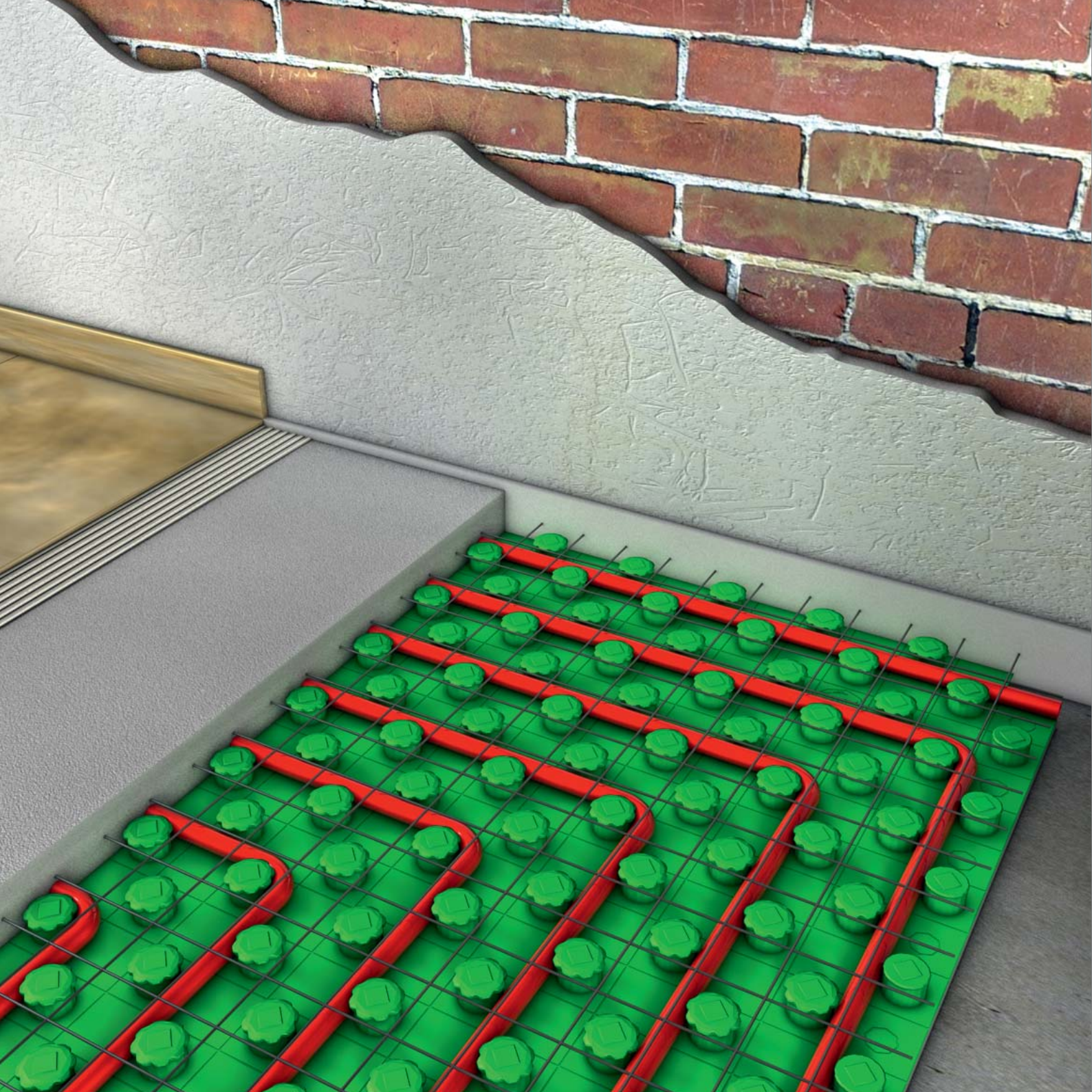


## FROM THE SUN, AS MUCH HOT WATER AS YOU LIKE

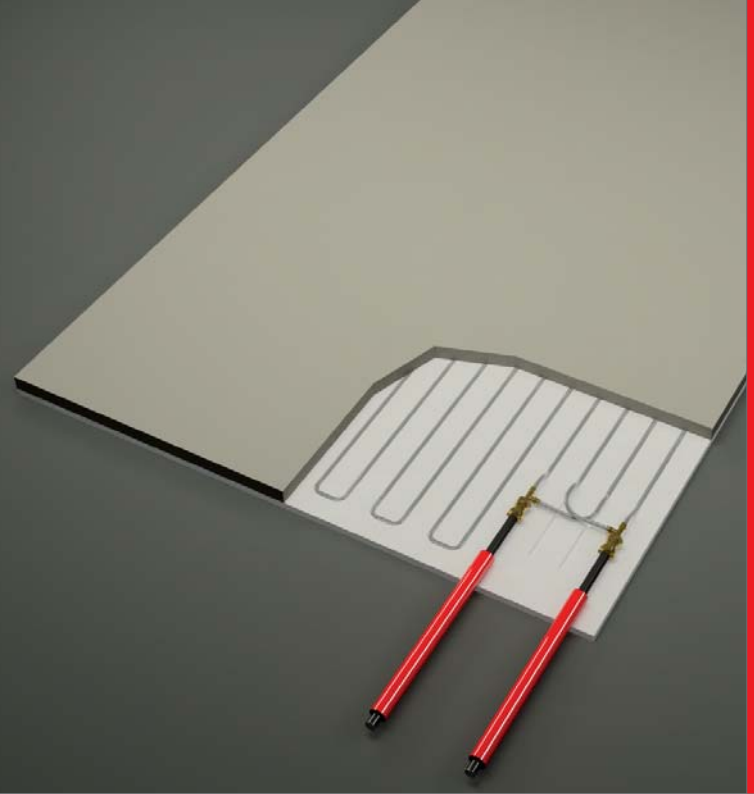
- The modern technology of giacosun solar thermal panel systems covers a very high percentage of the hot water need for sanitary use, reducing considerably the use of the traditional boiler that can be switched off during summer. This is due to the high constructive care of the giacosun flat solar panels: the special TINOX treatment of the collector ensures high outputs and long life, while the covering made of toughened glass and interchangeable is of high quality and improves the transmission of the radiation of the sun. That's not all: if you have new generation appliances that can be supplied with pre-heated water, you can save the phase of heating of the Domestic water, shorten the washing cycle and lower electrical consumption





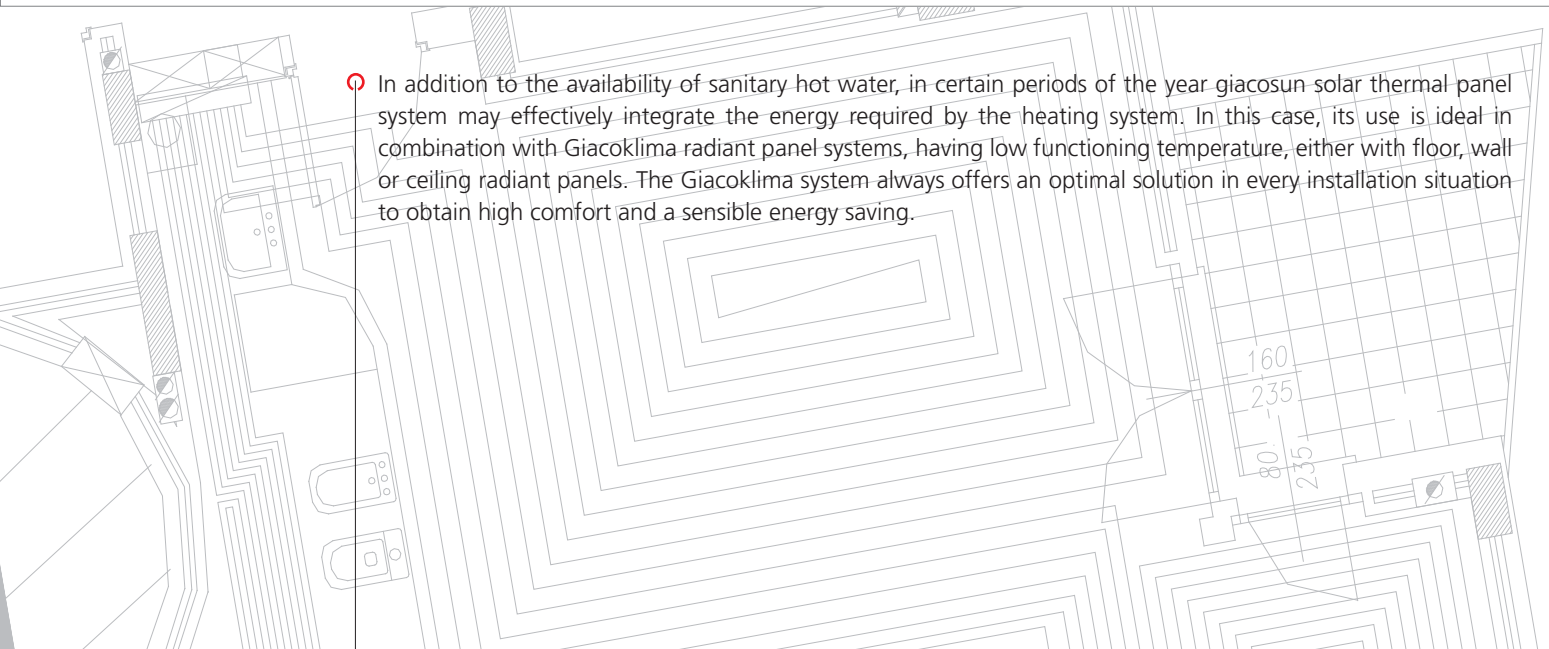






## INTEGRATION OF THE LOW TEMPERATURE HEATING

- 📍 In addition to the availability of sanitary hot water, in certain periods of the year giacosun solar thermal panel system may effectively integrate the energy required by the heating system. In this case, its use is ideal in combination with Giacoklima radiant panel systems, having low functioning temperature, either with floor, wall or ceiling radiant panels. The Giacoklima system always offers an optimal solution in every installation situation to obtain high comfort and a sensible energy saving.







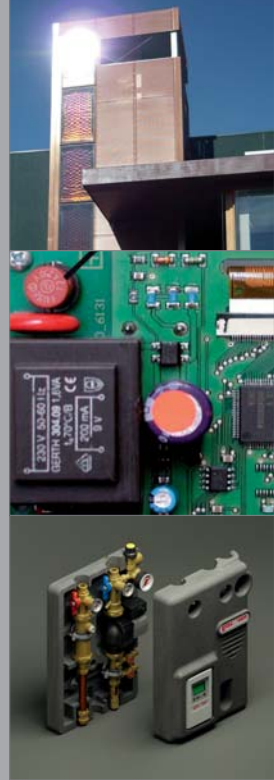
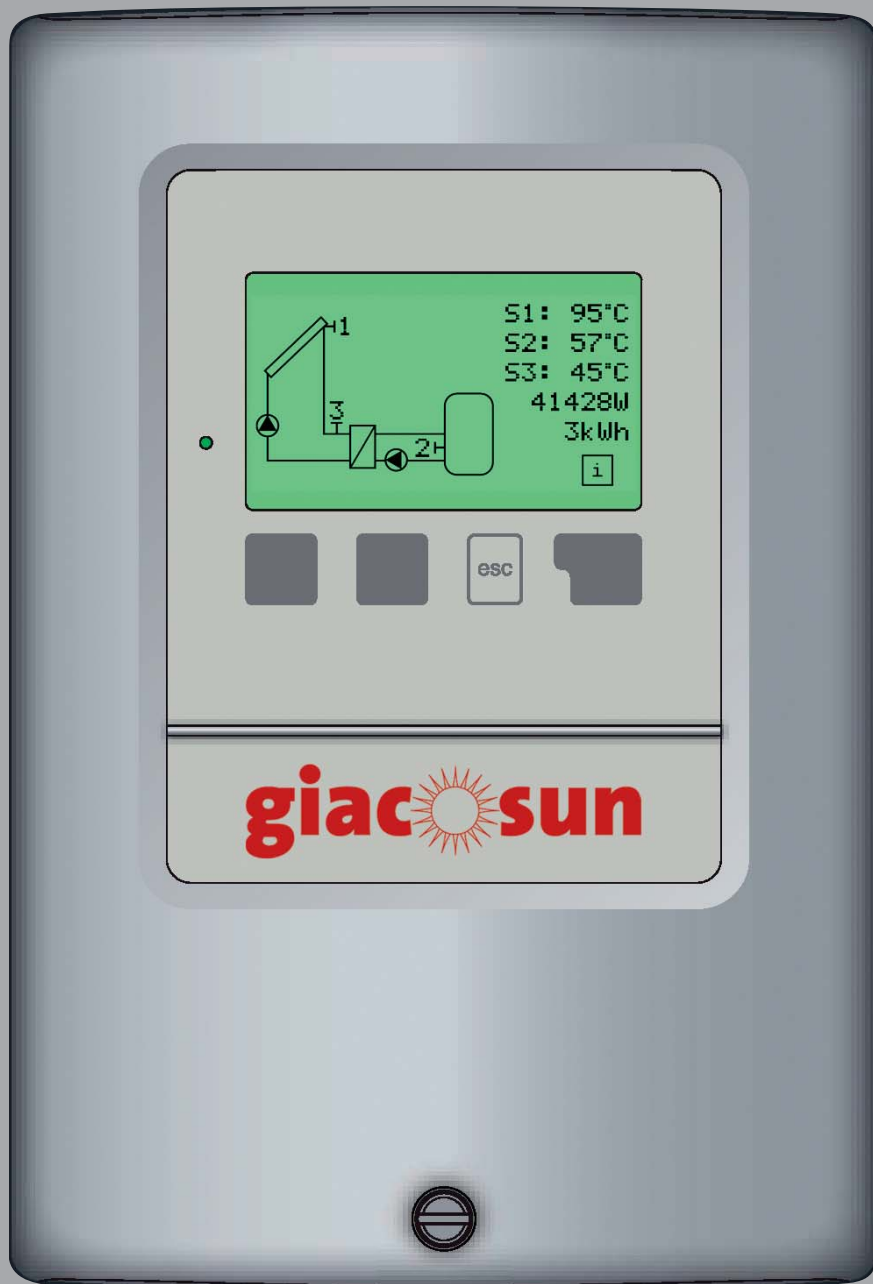


## THE CIRCULATION GROUP, THE "HEART" OF THE SYSTEM

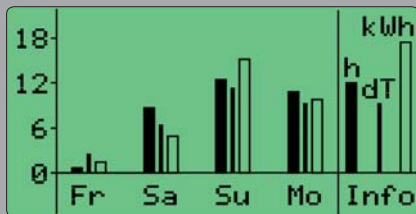
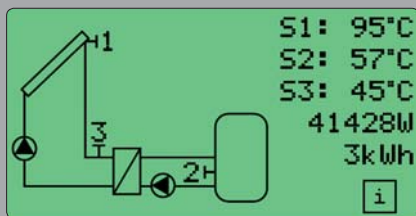
◉ The circulation group is the real "heart" of giacosun solar thermal panel system; each detail has been developed to guarantee the highest reliability, the dimension compactness and above all the simplicity during installation and maintenance phases.

The insulation shell in moulded PE – ensures effective thermal insulation and an attractive appearance – for example, it has two inserts by removing them it is possible, to install the regulator of the group and on the other one to control, filling and emptying of the system; the thermometers can also be seen mounted on the flow and return, the manometers, mounted on the safety group, the air circulation for the cooling of the integrated circulator, and through a steel plate on the back part, the mounting on heaters or on walls.

The characteristic elements of the circulation group are the capacity meter, mechanical or electrical – to allow the direct calculation of thermal energy supplied by the panels – the filling and regulation group, a specific circulator for solar applications, ball valves with integrated stop and manually adjustable, a safety group having safety valve in compliance with PED Directive and connection to the expansion vessel and finally a deaerator with manual discharge valve.

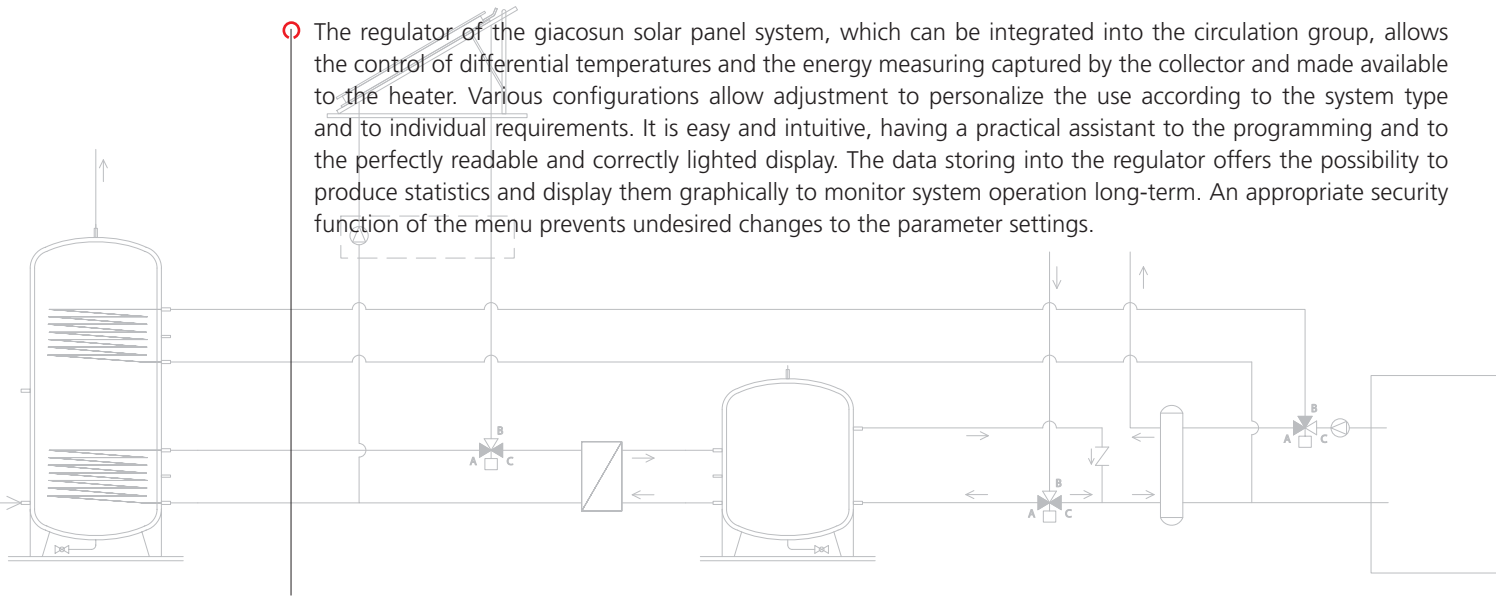




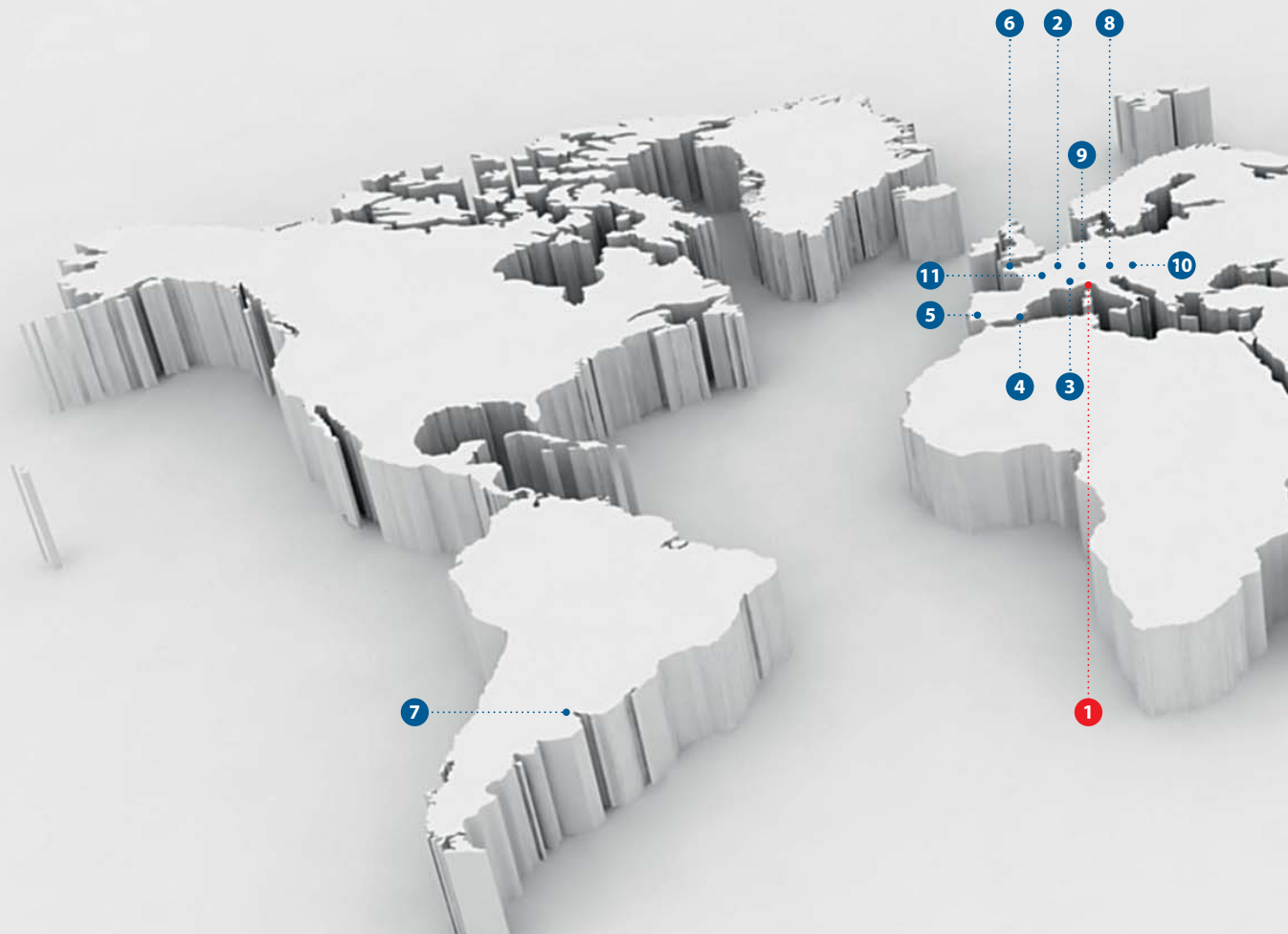


## FIRST-CLASS REGULATION

- The regulator of the giasosun solar panel system, which can be integrated into the circulation group, allows the control of differential temperatures and the energy measuring captured by the collector and made available to the heater. Various configurations allow adjustment to personalize the use according to the system type and to individual requirements. It is easy and intuitive, having a practical assistant to the programming and to the perfectly readable and correctly lighted display. The data storing into the regulator offers the possibility to produce statistics and display them graphically to monitor system operation long-term. An appropriate security function of the menu prevents undesired changes to the parameter settings.



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Further information: [www.giacomini.com](http://www.giacomini.com)



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