Complements for Solar Energy Systems

BAXI

Electronic control

Controllers for hot-water systems with solar collectors



Solar Controller CS-10

It controls production of Domestic Hot Water of the solar energy system.

By means of a correct programming, this unit can guarantee maximum use of the solar energy received, can also monitor the back-up boiler selected.

Main features

- Solar collector temperature control.
- DHW storage cylinder temperature control.
- Solar pump operation control according to the solar collector and DHW cylinder temperature.
- Anti-legionella protection feature (with back-up boiler).
- Possibility of connecting a pulse counter.
- Bus connection capability.

Delivery

In a box containing 4 sensors mod. PT 1000 of 1 KOhm

Technical data

Supply voltage. 230V AC ± 10%. 50Hz
Power input. 5VA
Relay switching capacity 250 V, 2 (2) A
Max. current at L1 terminal supplying L' 6,3 A
Electrical protection to DIN EN 60 529 IP 40
Protection class to DIN 60730 II
Timer battery back-up (only CS 10) 10 horas

Allowable room temp. 0 ° hasta 50 °C Sensor resistors: PT 1000, 1KOh

Sensor resistors: PT 1000, 1KOhm + / - 0,2% to 0 °C Base for wall-mounting through rawlplugs and

screws or making use of the guides attached to the lid for vertical fixing.

Roughing-in measurements

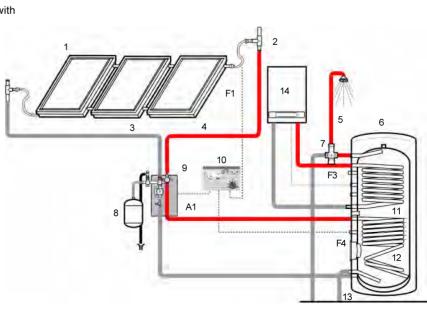
143 mm long; 96 mm high and 59 mm deep

Diagram and basic circuit

Solar energy system schematic for Domestic Hot Water with a wall-mounted back-up boiler.

- 1 Solar collectors
- 2 Air vent
- 3 Solar collector flow
- 4 Solar collector return
- 5 Domestic Hot Water
- 6 Storage cylinder
- 7 Thermostatic mixing valve
- 8 Expansion vessel
- 9 Hydraulic kit KHS
- 10 Solar Controller
- 11 Back-up boiler heat exchanger
- 12 Solar collectors heat exchanger
- 13 Cold water inlet
- 14 Back-up heat generator (Wall-mounted gas boiler for Central Heating only)
- F1 Solar collector sensor
- F4 Cylinder sensor for interconnecting solar collectors
- F3 Cylinder sensor for interconnecting back- up boiler

A1 Pump control





Solar Controller CS 1

The controller permits regulation of a solar circuit comprising one or more rows of collectors.

Main features

 Zone valve control in buildings with individual cylinders, according to the DHW cylinder and solar circuit temperature.

Delivery

In a box containing 2 sensors mod. PT 1000 of 1 KOhm