

Zrenjanin Hospital, Serbia



Photo: Thermosolar

Zrenjanin Hospital, Serbia

solar collectors on the outdoor parking lot

PROJECT

The project "Solar energy for Vojvodina", financed by the Government of Slovakia, brought to Zrenjanin town hospital 400 square meters of solar panels. This is the first medical institution in Serbia that uses solar energy. The installation enables heating of sanitary water and consequently allows savings of around 265,000 kilowatt-hours per year.

The solar collectors are mounted as a roof over the outdoor parking lot.



Photo: Thermosolar

Heating system

The solar system, installed over the outdoor parking lot, provides hot water for sanitary use. The hospital consumes around 30,000 litres of hot water every day.

Auxiliary heating is gas.

Collector area;
400 m²,

Heat store description:
10 000l water storage



SOLAR COLLECTOR

Type:
Flat plate metal collector
TS 300 (producer THERMO/SOLAR Ziar)

TS 300 suits for small and large solar systems. These collectors are connected in parallel and can be mounted in blocks from up to 10 collectors.

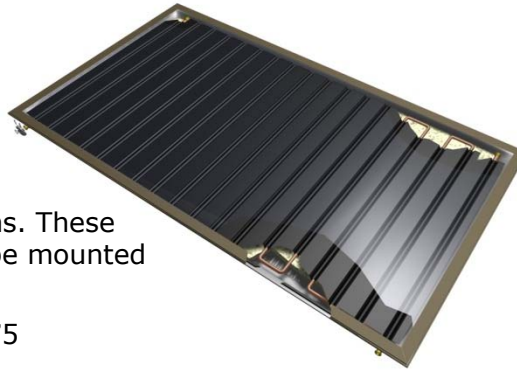
Dimensions (mm): 2009 x 1009 x 75
Weight (kg): 36
Efficiency (η_0 ($\Delta T=0$ K) %): 77,6 (aperture)

Read more about the solar collector:

http://www.thermosolar.sk/stara_stranka/aa-eng.htm

ECONOMY

Collector prize; 364,8 € /2009
Solar gain; 265 000 kWh/year
System price; 165 000 € / 2009



PHOTOS;
THERMO/SOLAR Ziar

- Built:
2009
- Project designers:
prof. Lambic, Technical
University Zrenjanin
- Consultants:
Pavol Falat
- Project management:
Jan Tomciak
- Location:
Province Vojvodina,
town Zrenjanin
Republic of Serbia
- Project period:
2009
- Type of project:
Institution

