

# KIEKERT-CS - Stage II

KIEKERT - CS s.r.o. in Prelouc is engaged in the production of electric locks for the automobile industry. It was as early as in the year 1995 when the reconstruction of the original premises took place that the decision was first made to use ECOSUN high-temperature radiant heating panels. Another article, KIEKERT-CS s.r.o.

In 2006 – 2007, a completely new production hall was built on the premises of KIEKERT-CS within the framework of further expansion of the production facilities.



Proof of the satisfaction of the operator with their existing heating system using ECOSUN radiant panels is the fact that the same heating system was selected for this new hall as well. More than 130 ECOSUN S 36 panels with a total output of almost 500 kW were installed throughout the whole structure.



The budget estimate for the setting up of heating with ECOSUN radiant panels was less than half compared to that for competing systems with a gas boiler plant and warm-water or warm-air heating. Also, the costs of the operation of radiant electric panels are about 1/3 lower than when gas heating is used.

The system works on the same principle as that used in the first hall from the year 1995 – i.e. on the principle of heat accumulation. During decreased production at night, outside the consumption peak, the massive concrete floor is heated by radiant panels for the accumulation of heat. During the day, the panels are not in operation and they are used only for the creation of thermal comfort in particular workplaces.



The panels are placed not only in the production halls but also in storage areas. The positive effect of radiant heating, which doesn't heat the air but the objects which the radiation encounters, can be seen here. The warming of halls with such a great ceiling height would be virtually impossible with the use of classical convection systems.



Also, the fact that electric radiant panels are actually a maintenance-free system is a considerable advantage. A gas boiler plant system with an output of 0,5MW is already a source of medium air pollution, the gas equipment is subject to regular examinations and checks, and regular measurements of emissions of the combustion products of the sources of heat (boilers) are needed. There is no such extra expenditure when ECOSUN electric radiant panels are used.