

Research in the use of Lexin type ecological heating

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Abstract The paper presents the results of cold season use of Lexin type ecological heating based on infra-red radiation. This technology, which is known for over a decade in E.U. countries and is used in several different areas of activity, is tested for the first time in Romania. The measurements taken in the the North University of Baia Mare's laboratory included energy measurements, the rooms microclimate as well as the temperature from different corners of the room, the relative humidity in the room, meteorological surveys, the air's micro-flora, the micro-flora of the soil located in the room, morph-metrical measurements and phenological observations on different plant and animal species inside the lab as well as general observations on the immediate effects on the human body.

The obtained results show that this technology is clean, efficient, without polluting emissions and acceptable from the energy point of view.

Keywords: infra-red heating, microclimate
