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ENERGY CONSUMPTION RESEARCH OF COVERED SWIMMING POOL AIR HANDLING UNITS

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ABSTRACT

The experimental object of scientific research is one of the covered swimming-pool's buildings in Riga, Latvia.

The main target of the project – investigate the possibilities to reduce heating and electrical energy consumption in multifunctional air handling units covered swimming-pool buildings and also development of building energy audit system and methods.

In the paper tendencies of covered swimming-pool buildings in Latvia, Lithuania and Estonia to evaluate potential meaning of scientific researches for future production are discussed.

In research division of energy consumption in building by main technological processes is executed. As a result of experimental measurements and theoretical calculations, energetic parameters of experimental and alternative air handling units are defined.

Description of technical and economical indexes of experimental and alternative air handling units are obtained and compared.