



## **CASE STUDY OF ENERGY EFFICIENCY IN AIR HANDLING UNITS IN LATVIA SCHOOLS**

**G. Plavenieks, A. Lesinskis**  
*Riga Technical University*  
*Institute of Heat, Gas and Water technology*  
*Azenes str. 16-20, LV 1010 Riga – Latvia*

### ABSTRACT

This paper presents a case study of energy efficiency of air handling units for schools in Latvia.

The paper summarizes the possible configurations of air handling units, carried out analytical studies searching for an optimum variant of the energy savings and optimization point of view, taking into account the specifics of learning process in Latvia schools.

Results show the use of air handling units optimization based methods should be encouraged due to the potentials for energy savings combined with improved indoor air quality of learning process in Latvia schools.

Reducing energy consumption, energy efficiency and optimization of air handling units in schools is important to address the global challenges of climate change and natural resources careful use.

Keywords: air handling units, energy efficiency, ventilation in schools.