

Study on the Energy savings by smart ventilation system using CO₂ adsorbent module

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The purpose of this study was to improve the air quality and saving of energy costs to remove the CO₂ in the room space directly through the adsorbent module and O₂ generation by the smart ventilation system. This developed system is important to minimize a building energy consumption using ventilation process. Smart ventilation system has a real-time monitor to effectively control the developed device with changing the CO₂ and O₂ concentration in the room by USN-based sensing method. And also, this system designed to reduce energy costs and improve the indoor air quality by optimization of operating conditions.

※ keyword: CO₂, Adsorption, Ventilation system, Energy saving

※ Funding Institution & Project title: This work was supported by Development of adsorption module for CO₂ reduction and combined ventilation system for energy efficiency improvement above 15% of the Korea Institute of Energy Technology Evaluation and Planning (KETEP), granted financial resource from the Ministry of Trade, Industry & Energy, Republic of Korea. (No. 2012T100100428)

※ Oral Presentation Poster Presentation