

A Modeling Study of Ventilation in Manufactured Houses

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ABSTRACT

The design of mechanical ventilation systems for small, tightly sealed buildings is discussed. A simplified model is developed that takes into account the effects of building leakage, duct leakage, and duct placement on the performance of a mechanical ventilation system. The model is used to evaluate the performance of a mechanical ventilation system in a manufactured house. The results show that the performance of a mechanical ventilation system in a manufactured house is highly dependent on the design of the system and the building. The model can be used to help designers select the appropriate system for a given building.

INTRODUCTION

The design of mechanical ventilation systems for small, tightly sealed buildings is discussed. A simplified model is developed that takes into account the effects of building leakage, duct leakage, and duct placement on the performance of a mechanical ventilation system. The model is used to evaluate the performance of a mechanical ventilation system in a manufactured house. The results show that the performance of a mechanical ventilation system in a manufactured house is highly dependent on the design of the system and the building. The model can be used to help designers select the appropriate system for a given building.

The first problem in the design of a mechanical ventilation system for a small, tightly sealed building is the selection of the system. There are two main types of mechanical ventilation systems: supply and return. Supply systems provide fresh air to the building, while return systems remove stale air from the building. The selection of the system depends on the design of the building and the needs of the occupants. The second problem in the design of a mechanical ventilation system is the selection of the components. The components of a mechanical ventilation system include the fan, the ductwork, and the filters. The selection of the components depends on the design of the system and the needs of the occupants. The third problem in the design of a mechanical ventilation system is the selection of the controls. The controls of a mechanical ventilation system include the thermostat, the timer, and the sensors. The selection of the controls depends on the design of the system and the needs of the occupants.

The second problem in the design of a mechanical ventilation system for a small, tightly sealed building is the selection of the components. The components of a mechanical ventilation system include the fan, the ductwork, and the filters. The selection of the components depends on the design of the system and the needs of the occupants.

MECHANICAL VENTILATION SYSTEMS

The design of mechanical ventilation systems for small, tightly sealed buildings is discussed. A simplified model is developed that takes into account the effects of building leakage, duct leakage, and duct placement on the performance of a mechanical ventilation system. The model is used to evaluate the performance of a mechanical ventilation system in a manufactured house. The results show that the performance of a mechanical ventilation system in a manufactured house is highly dependent on the design of the system and the building. The model can be used to help designers select the appropriate system for a given building.

- Supply and return systems
- Duct leakage and placement
- Fan selection
- Filter selection
- Control selection

Keywords: mechanical ventilation, small buildings, tight buildings, duct leakage, duct placement, fan selection, filter selection, control selection.

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A Modeling Study of Ventilation in Manufactured Houses Andrew K. Persily, Samuel R. Martin, National Institute of Standards and Technology (U.S.), United States. Department of Housing and Urban Development. Office of Policy Development and Research, 2001-10-01 The Dept of Housing and Urban Development Manufactured Home Construction and Safety Standards MHCSS Part 3280 1994 contain requirements intended to provide adequate levels of outdoor air ventilation in manufactured homes mobile homes In the implementation of these standards questions have arisen regarding the impact and significance of these requirements which this report addresses Chapters introduction and background on MHCSS ventilation requirements description of house model airflow characteristics and ventilation systems simulation approach cases analyzed air tightness and ventilation and energy results and summary and discussion Charts and tables **A Handbook of Sustainable Building Design and Engineering** Dejan Mumovic, Mat Santamouris, 2013-06-17 The combined challenges of health comfort climate change and energy security cross the boundaries of traditional building disciplines This authoritative collection focusing mostly on energy and ventilation provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges A Handbook of Sustainable Building Engineering covers how to design engineer and monitor a building in a manner that minimises the emissions of greenhouse gases how to adapt the environment fabric and services of existing and new buildings to climate change how to improve the environment in and around buildings to provide better health comfort security and productivity and provides crucial expertise on monitoring the performance of buildings once they are occupied The authors explain the principles behind built environment engineering and offer practical guidance through international case studies *Urban Research Monitor*, 1998 **Monthly Catalog of United States Government Publications**, 2000 Building and Fire Research Laboratory Publications Building and Fire Research Laboratory (U.S.), 1991 **NIST Building & Fire Research Laboratory Publications**, 1992 *Publications of the National Institute of Standards and Technology ... Catalog* National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994 Hydraulic Model Studies of Navajo Dam Diversion and Outlet Works Structure G. L. Beichley, 1960 *Public Health Service Publication*, 1963 Airflow Performance of Building Envelopes, Components, and Systems Mark P. Modera, Andrew K. Persily, 1995 Discusses the measurement and control of air moving inside buildings and between the inside and outside in 17 papers and discussions from a symposium in Dallas Fort Worth in October 1993 After an overview of the subject covers air movement ventilation and indoor air quality window air leakage *NIST Special Publication*, 1994 *Vernacular Architecture: Towards a Sustainable Future* C. Mileto, F. Vegas, L. García Soriano, V. Cristini, 2014-08-28 Sustainability is a concept that has monopolised a large number of the scientific debates in a wide range of spheres connected not only with architecture urban planning and construction but also with the product market tourism

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