

Operation and maintenance of residential mechanical ventilation systems in homes

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ABSTRACT

With tighter envelopes and a switch from wind-based natural ventilation cooling to closed window air conditioning, there is much more dependence on mechanical ventilation systems in homes. Given the relative novelty of mechanical ventilation in residential applications, this raises several questions: How reliable are these systems? Are they installed correctly? Is their performance monitored and what is an acceptable performance level? What are the maintenance requirements? This workshop will attempt to answer these questions from the perspective of ventilation systems in US homes including both single family and multifamily applications. The workshop will combine requirements from building standards and observations and measurements from field studies.

KEYWORDS

operation, maintenance, ventilation, reliability, installation, monitoring