



Indoor Environmental Quality



RP





ASHRAE

Creating indoor environments for comfort, health and safety

INDOOR ENVIRONMENTAL QUALITY

Whether it's improving the work setting in an office building to increase productivity or providing guidelines for emerging technologies, ASHRAE Research helps engineer the world we live in, creating better indoor and outdoor environments around the globe.

This would not be possible without the individuals and organizations that have chosen to support ASHRAE's vision with their financial contributions. To continue our progress, we need your support as well. To make a donation to ASHRAE Research, please visit www.ashrae.org/contribute.



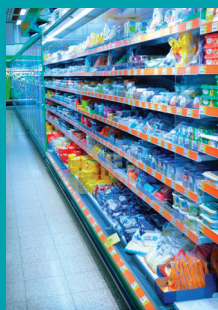
The quality of indoor air influences the comfort of occupants as well as their health and overall productivity. A wide range of ASHRAE Research projects covering all types and sizes of buildings measure the impact of HVAC&R systems on those living and working in them.

ASHRAE RESEARCH GOALS

- Significantly advance our understanding of the impact of indoor air quality on work performance, health systems and perceived environmental quality in offices, providing a basis for improvements in ASHRAE standards and guidelines, HVAC&R design and operation practices.
- Understand influences of HVAC&R on airborne pathogen transmission in public spaces and develop control strategies

A FEW CURRENT RESEARCH PROJECTS

- Full-Frequency Numerical Modeling of Sound Transmission in and Radiation from Lined Ducts
- Related Air Quality and Other Factors to Comfort and Health-Related Symptoms Reported by Passengers and Crew on Commercial Transport Aircraft
- Ventilation and Indoor Air Quality in Retail Stores
- Thermal Comfort in Commercial Kitchens
- Thermal and Air Quality Acceptability in Buildings that Reduce Energy by Reducing Minimum Airflow from Overhead Diffusers
- Defining the Capabilities, Needs and Current Limitations of Building Information Modeling (BIM) in Operations and Maintenance for HVAC&R
- Productivity and Perception Based Evaluation of Indoor Noise Criteria
- Role of HVAC Systems in the Transmission of Infectious Agents in Buildings and Intermodal Transportation
- Modeling Person-to-Person Contaminant Transport in a Mechanical Ventilation Space
- How do Pressure Drop, Efficiency, Weight Gain, and Loaded Dust Composition Change throughout Filter Lifetime
- Revisions to the ASHRAE Thermal Comfort Tool to Maintain Consistency with Standard 55-2010
- Experimental Investigation of Hospital Operating Room (OR) Air Distribution



ASHRAE is an international technical society that fulfills its mission of advancing heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world through research, standards writing, publishing and continuing education.

Questions?

Please contact the RP Staff:
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