



Hot & Humid Climates





ASHRAE

HOT & HUMID CLIMATES

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.



Hot and humid climates present a unique challenge in building design.

To help the building industry in those areas, ASHRAE Research in recent years has focused on design in tropical regions, providing guidance on the magnitude and the consistency of the cooling and dehumidification loads. ASHRAE recognizes that building in such climates must be designed and operated in a way that prevents perpetual condensation and moisture sorption into their cold indoor surfaces.

A FEW CURRENT RESEARCH PROJECTS

- Measurements and Prediction of Waterside Fouling Performance of Internally Enhanced Tubes in Cooling Tower Applications
- Measurements of Thermal Conductivity of Pipe Insulations at Below Ambient Temperatures and in Wet Condensing Conditions with Moisture Ingress
- The Effect of Humidity on the Reliability of ICT Equipment in Data Centers
- Extension of the Clothing Insulation Database for Standard 55 and ISO 7730 to Provide data for Non-Western Clothing Ensembles



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:
researchpromotion@ashrae.org
or 404/636-8400 or www.ashrae.org/rp

