



21CR Project 605-20010

Evaluating the Ability of Unitary Equipment to Maintain Adequate Space Humidity Levels – Phase I

Updated 28 August 2001

Objective:

Support of ASHRAE's 1121-TRP ("Evaluating the Ability of Unitary Equipment to Maintain Adequate Space Humidity Levels, Phase I")

Information/items expected to result from this project:

This project provides a computer simulation plan to evaluate the ability of unitary HVAC equipment to address humidity control issues in different commercial buildings and under different climate conditions.

How are the results likely to be applied:

The developed plan for Phase II research calls for 1,360 computer simulations to be conducted that will identify how various humidity control options perform in five different applications and eight different climate locations. The results will provide guidance to design engineers and building operators.

Research subcontractor:

University of Colorado, Boulder CO (Principal Investigator: Michael J. Brandemuehl, Ph.D.)

Status:

This project was concluded in the third quarter of 2001 and a final report approved for release. The final report is available free for downloading from the ARTI website.

Responsible 21CR Subcommittee: HVAC&R Energy Efficiency