Paper Number: ICR0464

Title of Paper: Temperature and Humidity Control in Air-Conditioned Buildings with Lower Energy Demand and Increased Indoor Air Quality

Presenter: J. Paul, E.T. Martos, Technical Univeristy of Denmark, Denmark

Session: E1-1

Person Contributing Discussion or Question: Schmitt, Gerhard, Technical University Hamburg-Harburg, Technical Thermodynamics (6-08), Denickes 17, 21073 Hamburg

Comment or Question: Have you compared your system with a desiccant system on a primary energy basis?

Presenter's Reply: Honestly, no. I have been in buildings with DEC and in all cases the humidity was unacceptably high! The results with binary ice (called "cool and dry a/c") are so convincing that DEC is not interesting enough. Also the installation costs of DEC is higher than binary ice.

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Person Contributing Discussion or Question: Rane Milind V., Associate Prof., IIT Bombay, Mech. Eng. Dept., IIT, Powai Mumbai 4000 076 INDIA

Comment or Question: What is the evaporator temperature assumed in the calculations?

Comment: Chilled liquid Desiccant Systems can offer higher evaporators than -12EC as in ice-water based systems due to much higher evaporator temperatures.

Presenter's Reply: Answer to Question: Temperature evaporation = -12EC.