



21CR Project 611-10080

Use of Water Vapor as a Refrigerant: Part II – Cycle Modifications and System Impacts on Commercial Feasibility

Updated 12 October 2004

Objective:

Evaluate the various system configurations possible for water based vapor compression cycles with the aim of assessing their feasibility and potential performance relative to conventional refrigerants and their systems.

Information/items will result from this project:

This work will provide essential information related to the commercial viability of water vapor compression systems suitable for a/c applications and will identify the most appropriate system technology for potential equipment manufacturers to consider for product designs.

How are the results likely to be applied:

Water chilling equipment manufacturers would use the results to assess the market potential for water vapor-based systems and to determine the feasibility of initiating product designs based on water vapor as the refrigerant.

Research Subcontractor:

University of Wisconsin, Madison, WI (Principal Investigator: Gregory Nellis)
(Monthly Progress Report)

Status:

Project has been concluded and a final report approved for release. The final report is available free for downloading from the ARTI website.

Responsible 21CR Subcommittee: Emerging Technologies (Alternative Equipment)