



21CR Project 610-20060

High Condensing Temperature Heat Transfer Performance of Low Critical Temperature Refrigerants

Updated 29 August 2006

Objective:

Characterize the heat transfer performance of two low critical temperature refrigerant blends (R-404A and R-410A) under high condensing temperature near the critical point.

Information/items expected to result from this project:

This project will provide heat transfer data essential to the design of systems operating at high condensing temperatures near the critical point.

How are the results likely to be applied:

The heat transfer data resulting from this project will enable HVAC&R equipment manufacturers to design energy efficient systems that provide satisfactory performance at higher condensing temperatures.

Research subcontractor:

Iowa State University, Ames, Iowa (Principal Investigator: Srinivas Garimella, Ph.D)

Status:

The project has been completed. The draft final report is approved for release. The final report is available to download at no cost from the ARTI website.

Responsible 21CR Subcommittee: HVAC&R Energy Efficiency