

ASHRAE Research: Keeping cold Bold!

ASHRAE has a long history of refrigeration, setting the first standard tonnage basis of refrigeration and writing the first safety code for refrigeration. The Society's work in refrigeration has continued since those early years with continued strong interest in promoting the use of safe, environmentally friendly, naturally occurring refrigerants.

- 1327-RP Flow Pattern and Pressure Drop Determination for Two-Phase Ammonia Flow in Various Pipes
- 1410-RP Effect of System Chemicals toward the Breakdown of Lubricants and Refrigerants
- 1467-RP Balancing Latent Heat Load between Display Cases and Store Comfort Cooling
- 1495-RP Effect of Lubricant on the Distribution of Water between the Vapor and Liquid Phases of Refrigerants
- 1507-RP Binary Refrigerant Flame Boundary Concentrations
- 1556-RP Characterization of Liquid Refrigerant Flow Emerging from a Flooded Evaporator Tube Bundle
- 1561-RP Characterization of Liquid Refrigerant Flow Emerging from a Flooded Evaporator Tube Bundle
- 1569-RP CFD Study of Hydraulic Shock in Two-Phase Anhydrous Ammonia
- 1584-RP Assessment of Alternative Approaches to Predicting the Burning Velocity of a Refrigerant
- 1602-RP Thermal-Fluid Behavior of Mixed Refrigerants for Cryogenic Applications
- 1604-RP Demand Controlled Filtration for Clean Rooms
- 1615-RP Fault Detection and Diagnostics Methods for Supermarkets -
- 1634-RP Guide for Sustainable Refrigerated Facilities and Refrigeration Systems
- 1717-RP Improve Accuracy and Reproducibility of ASTM-E681 Test Method for Flammability Limit Measurement of 2L Flammable Refrigerants

- GIA 13-14 Thermal-Fluid Behavior of Mixed Refrigerants for Cryogenic Applications
- GIA 14-15 Development of fouling averse, high performance gas liquid absorber for application in high performance absorption refrigeration cycles

- CO-RP 2 Revised Guidance for Physical & Cyber HVAC Security - A CIBSE led project co-funded by ASHRAE

Advanced Energy Design Guide for Grocery Stores -- Achieving 50% Energy Savings Toward a Net Zero Energy Building

