

King of Prussia, PA, Jan. 13, 2016

Arkema to present on lubrication performance with low-GWP replacement for R-404A at ASHRAE Winter Conference during AHR Expo in Jan. 2016

Arkema Inc. will present the results of its recent study of the lubricant impact on the performance of R-449B, a new, lower global warming potential (GWP) refrigerant designed to replace R-404A refrigerant in commercial systems at the ASHRAE Winter Conference, to be held in Orlando, FL, Jan. 23-27, 2016, in coordination with the 2016 AHR Expo at the Orlando Convention Center.

The presentation, entitled: *Energy Efficiency Performance of New Low-GWP Replacements for R-404A as a Function of Lubricant Structure and Refrigerant/Lubricant Properties in a Commercial Refrigeration Unit*, will be given by Arkema's Laurent Abbas, Ph.D., R&D Manager for global applications development in Arkema's Fluorochemicals business. The Arkema presentation will be a part of ASHRAE's Seminar #16, entitled "Making the Commercialization of Low-GWP Refrigerants a Reality," scheduled for Sunday, Jan. 24, 1:30-3:00pm at the Orlando Hilton hotel.

The ASHRAE seminar will focus on the lubrication component of changing refrigerants as part of the ongoing transition to lower global warming potential refrigerants, such as HFOs, that create a number of design and operational challenges to compressor and system builders.

In Dr. Abbas's study, R-449B, a lower GWP alternative refrigerant to R-404A, is evaluated with several synthetic POE lubricants having different solution properties. The results of full system tests in a commercial refrigeration unit are correlated to the measured thermophysical properties and miscibility of the refrigerant/POE mixtures in order to determine the impact of refrigerant-lubricant mixture properties on system performance. R-449B is a non-flammable, class A1 replacement or retrofit for R-404A/R-22 in commercial refrigeration, low-temperature stand-alone equipment, and air conditioning equipment with a GWP of only 1296, a two-thirds reduction from R-404A.

Please visit Arkema's Forane® refrigerants team at booth 3631 at the AHR Expo at the Orlando Convention Center, Jan. 25-27, 2016.

About Arkema

A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.5 billion in 2014, we employ approximately 19,200 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in lightweight materials, renewable feedstocks, energy generation and storage, water treatment, electronics and 3D printing. For the latest, visit www.arkema.com.

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