

Hill PHOENIX

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A DOVER COMPANY

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FOR IMMEDIATE RELEASE

HILL PHOENIX LEADS THE WAY TO CLEANER RETAIL REFRIGERATION

Company First to Receive EPA Approval for CO₂ to Replace HCFCs in Supermarkets

CONYERS, Ga., Sept. 18, 2009 – As a leading designer and manufacturer of commercial refrigeration systems, Hill PHOENIX is once again revolutionizing the industry by introducing yet another new technology that helps reduce greenhouse gas emissions.

The company today announced that it has received approval from the U.S. Environmental Protection Agency (EPA) to use carbon dioxide (CO₂), which occurs naturally in the environment, as a replacement for hydrochlorofluorocarbon (HCFCs) in retail refrigeration. EPA acceptance will allow the industry to dramatically lower the global warming potential of both low and medium temperature refrigeration systems.

The green light came under the EPA's Significant New Alternatives Policy (SNAP) program, which evaluates alternatives to substances being phased out to protect the stratospheric ozone layer. "We thank Hill PHOENIX for their leadership in submitting a SNAP application and for their cooperation during our review. I am glad to see Hill PHOENIX's continued leadership in the supermarket industry in providing options that protect the ozone layer and significantly reduce impacts on the climate," said Drusilla Hufford, director of EPA's Stratospheric Protection Division. "I am also proud of the fact that a GreenChill Partner has taken the lead in the industry to make sure that food retailers continue to have as many options as possible for environmental improvements."

Hill PHOENIX conducted lab and field testing for more than a year before submitting its SNAP application and will continue to test CO₂ in projects this fall. It will begin offering CO₂ as a refrigerant option in both its Second Nature® low temperature and medium temperature products in late 2009.

As well as replacing ozone-depleting R-22, CO₂ can be used to replace R-507A or R-404A, HFCs that are commonly used in large amounts as a secondary refrigerant in retail refrigeration and significant contributors to global warming.

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“CO₂ is an excellent refrigerant with superior thermodynamic and transport properties, compared to the HFCs in use today,” says David Hinde, Hill PHOENIX manager of research & development. “It will not only significantly reduce the potential for global warming, but the refrigeration systems that incorporate CO₂ will also see a reduction in energy consumption.”

By replacing the HFCs with CO₂ as the secondary heat transfer fluid, a supermarket’s display cases and walk-in freezers will be able to utilize this natural refrigerant to chill perishable products while dramatically lowering the release of ozone-depleting refrigerants.

“In typical direct expansion refrigeration systems, the field-installed piping used to distribute HFCs inherently leaks, with significant refrigerant emissions through joints and valves. In fact, the average supermarket leak rate is around 20 to 25 percent per year. That amount of refrigerant leaking into the atmosphere contributes to global warming,” explains Hinde.

But, says Hinde, by using CO₂, refrigeration systems will be able to reduce HFC refrigerant leaks as well as reduce the HFC charge anywhere from 60 to 90 percent. The sustainability savings that will result from the elimination of refrigeration leaks that occur over time will be equivalent to more than 1,600 tons of carbon emissions over 10 years.

While Hill PHOENIX was the first to receive SNAP approval for CO₂ use in supermarkets as a replacement for HCFCs, the company believes it benefits the entire industry because all manufacturers can apply the technology.

“Many retail food operators are already working hard to reduce their carbon footprint,” notes Scott Martin, director of sustainable technologies for Hill PHOENIX. “CO₂ technology gives them one more choice to help achieve their sustainability goals.”

About Hill PHOENIX

Hill PHOENIX Inc., a Dover Company, is based in Conyers, Ga. The company designs and manufactures commercial refrigerated display cases and specialty products, refrigeration systems, integrated power distribution systems and walk-in coolers and freezers. The company also has a nationwide network of service and support centers that includes independent dealers. Visit the company on the Web at www.hillphoenix.com or call 800-283-1109.