

Danfoss wins the AHR Exposition's Highest Award for 2009

Already recognized with innovation awards in cooling and in refrigeration, Danfoss received a still greater honor when at the close of the awards ceremony, the Apexx VSH variable speed compressor was announced as the ASHRAE jury's choice as Product of the Year.

The compressor was selected from all the entries in nine categories as the most innovative product of the year, having the most far reaching design implications for the air conditioning industry and the greatest potential market impact.

The Product of the Year award caps a record of seven AHR Exposition Innovation Awards for Danfoss in seven years, an achievement unmatched by any other company.

This is an achievement that will crystallize the image and focus on the reality of Danfoss as the innovative leader in the air conditioning and refrigeration industries.

The Product of the Year award has brought, and will continue to bring, strong recognition to Danfoss as a company dedicated to innovation. The award has already generated widespread interest in Apexx VSH solutions.

Danfoss Apexx™ VSH compressor

The Danfoss Apexx™ VSH compressor is the first high-capacity (12 to 40 TR) R-410A variable speed scroll compressor for air conditioning and heat pumps. The Apexx solution offers continuous matching of cooling capacity to cooling load, resulting in high energy efficiency and enhanced cooling comfort. In each application range, a high efficiency scroll compressor and a variable speed drive are designed specifically for operation



Bill Harrison, President of ASHRAE, and Keith Coursin, Chairman of AHRI presented the Product of the Year Award to Danfoss on January 27, 2009, in the Technology Theater at the Exposition in Chicago.

The award was received on behalf of Danfoss by Mogens H. Rasmussen and Stephen Gugliotta.



with each other and optimized for efficient performance.

"The Apexx solution results in significantly higher energy efficiency because the entire evaporator is used,

even at the part load conditions that exist most of the time in air conditioning applications," said Mogens H. Rasmussen, business development manager for the Apexx VSH project. "High isentropic efficiency is maintained throughout the speed range. At lower speeds, below 50 Hz, oil injection to the scroll eliminates both leakage and high discharge temperature. Comfort is enhanced in two ways: first, because Apexx capacity always matches the cooling demand, tighter temperature control is possible; also, new controlling strategies for dehumidification are made feasible," Rasmussen continued.

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