

Inverter Scroll Compressors for Heat Pumps

MILAN (ITALY) / BIRMINGHAM (UK) March 27/13, 2012 – The heating market specified the requirements: solutions that continuously adapt the amount of heat generated to the actual heat load while maintaining very high efficiency levels. Emerson Climate Technologies therefore developed the first ZHW08 and ZHW16 Copeland Scroll™ Variable Speed compressors with inverter, specifically designed for heat pump applications. Manufacturers now have new possibilities of increasing efficiency, in particular for air / water heat pumps. For this application, operating conditions vary significantly, thus a specifically designed compressor is needed. The two models are equipped with a new brushless permanent-magnet motor to allow the compressor speed to continuously adapt between 30 and 117 Hz. For the targeted heat pump application, the advantage is the ability to precisely provide the required heating power during the heating season. Furthermore, monovalent operation is also possible because both models feature the Copeland Enhanced Vapor Injection technology thanks to which condensing temperatures of 65°C can be achieved at evaporating temperatures as low as -25°C. The maximum condensing temperature is 68°C, presently the highest possible value in the market for compressors using R410A refrigerant. The inverter complies with all regulations regarding electromagnetic compatibility and other important guidelines for use in the building sector, such as VDE. The ZHW08 and ZHW16 models address a heating power range between 4 and 16 kW. They will be launched on the market in spring 2012. End users will get with these compressors, dedicated heat pumps with best performance in efficiency, CO₂-emissions and costs. Additionally, new low energy housing and the refurbishment sector become independent from other energy sources.



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About Emerson

Emerson (NYSE: EMR), based in St. Louis, is a global leader in bringing technology and engineering together to provide innovative solutions to customers through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. Sales in fiscal year 2011 were US\$ 24.2 billion. For more information, visit www.Emerson.com

About Emerson Climate Technologies

Emerson Climate Technologies, a business of Emerson, is the world's leading provider of heating, ventilation, air conditioning and refrigeration solutions for residential, industrial and commercial applications. The group combines best-in-class technology with proven engineering, design, distribution, educational and monitoring services to provide customized, integrated climate control solutions for customers worldwide. Emerson Climate Technologies' innovative solutions, which include industry-leading brands such as Copeland Scroll™ and Alco Controls, improve human comfort, safeguard food and protect the environment. For more information, visit www.emersonclimate.eu

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