

CoreSense™ makes Copeland® brand compressors **intelligent**

MILAN (ITALY) / BIRMINGHAM (UK) March 27/13, 2012 – A Copeland® compressor is the heart of a refrigeration system. Now Emerson's CoreSense™ technology introduces also intelligence in its new semi-hermetic Stream compressors. That is the first product range to offer this feature as a standard to the European market. CoreSense uses the compressor as a sensor to monitor the mechanical and electrical information of it and to provide features such as:

- Advanced compressor protection
- Diagnostics
- Communication
- Power consumption monitoring

CoreSense goes beyond basic motor protection and provides advanced protection against mechanical failures due to oil circulation issues, high discharge temperature conditions, locked rotor and electrical failures voltage imbalance, single phasing and low voltage. The Diagnostics feature is a handy tool to service technicians for a quicker troubleshooting. All the valuable diagnostics and operating information of the compressor are stored in an organized way in the EEPROM memory on board. CoreSense Modbus communication enables a remote monitoring and reduces regular visits to the field site. Thanks to the open protocol, users can use it for communicating with different types of pack controllers used in refrigeration systems. The QR code (Quick Response) on the module housing provides quick and easy access to the troubleshooting information on smart phones. Finally CoreSense helps to indicate the value of power consumed by the compressor. This information can be used to assess energy costs and to make sure that the compressors are working normally under different operating conditions without any abnormalities. CoreSense addresses the needs of system manufacturers (OEMs), contractors, installers and end-users who are involved throughout the value chain.



CoreSense™ technology uses new Stream compressors as a sensor

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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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