

**Emerson Climate Technologies presents**  
**Copeland Scroll™ compressors solution for**  
**cascade CO<sub>2</sub> systems using R134a in**  
**medium-temperature applications**

**AACHEN (GERMANY), March 18, 2014** – Emerson Climate Technologies, a business of Emerson (NYSE: EMR) will present its range of Copeland™ ZO scroll compressors for R744 (CO<sub>2</sub>) subcritical applications at the Mostra Convegno trade fair in Milan.

This range is designed to provide the best performance for the low temperature side of CO<sub>2</sub> booster and R134a/ R744 cascade systems used in supermarkets.

With the recent release of the Digital Scroll ZBD compressor range for R134a, Emerson is now able to offer advanced scroll compressors for cascade systems in combination with Copeland Scroll ZO compressors for CO<sub>2</sub> subcritical applications:

- For medium-temperature applications, Emerson provides scroll compressors for supermarket packs up to 90 kW cooling. The Copeland Scroll ZB and ZBD compressor range offers 19 models with cooling capacities from 2 kW to 15 kW with R134a including Digital Scroll models, which are able to modulate capacity from 10 to 100%.
- For low-temperature applications, Emerson provides scroll solutions for supermarket racks with cooling capacities of up to 60 kW. The Copeland Scroll ZO and ZOD compressor range offers eight models with cooling capacities from 4 kW to 23 kW for R744, also featuring Digital modulation.

The use of scroll and Digital modulation technologies in these hybrid systems helps our customers and end users to offset the additional capital costs related to R134a and R744 compared to standard HFCs such as R404A.

Hybrid systems using R134a and R744 provide opportunities to reduce direct and indirect CO<sub>2</sub>-equivalent emissions and to improve the equipment's energy efficiency. They also represent a strong alternative to systems using common refrigerants, especially in consideration of the upcoming F-Gas regulations (R404A GWP=3.922; R134a GWP=1.430; R744 GWP=1).



*Copeland Scroll™ ZB compressor for medium temperature applications*

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#### **About Emerson**

Emerson (NYSE: EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets around the world. The company is comprised of five business segments: Process Management, Industrial Automation, Network Power, Climate Technologies, and Commercial & Residential Solutions. Sales in fiscal 2013 were \$24.7 billion. For more information, visit [www.Emerson.com](http://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™, Dixell™ and Alco Controls™, improve human comfort, safeguard food and protect the environment. For more information, visit [www.emersonclimate.eu](http://www.emersonclimate.eu)

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