

press release

NATURAL REFRIGERANTS AND DC INVERTER TECHNOLOGY NOW ATTAINABLE WITH THE NEW SOLUTIONS ON SHOW AT CHILLVENTA

Smart cooling to protect the climate are the keywords at CAREL booths 5-306 and 5-308

Brugine (Padova), 11 October 2016 - CAREL, a multinational specialising in control solutions for air-conditioning, refrigeration and air humidification, will be exhibiting at Chillventa 2016, in **hall 5, booths 306 & 308**.

The show will see the world preview of **Hecu CO₂**, the high-efficiency solution for condensing units that is now also compatible with systems operating on CO₂ natural refrigerant. Continuous research involving DC rotary compressors has allowed CAREL to package a solution that amply complies with the requirements of the current European legislative framework, in which F-gas and Eco-design have a primary role in stimulating the use of low GWP refrigerants on units with increasingly high performance, even at part loads.

Ample space will also be devoted to **electronic valves and DC inverters**, the company's products for high-efficiency applications in the HVAC/R sector. Chillventa represents an opportunity to highlight the benefits of CAREL technology: 40% lower energy consumption, high reliability, ideal temperature control and optimised operating conditions to as to maximise the performance and reliability of DC compressors.

There will also be important news regarding supervision with **boss**, the mobile ready supervisor, featuring built-in Wi-Fi, making it completely independent of other infrastructure, and graphics that automatically adapt to the mobile device they are displayed on. boss also introduces new communication protocols (such as BACnet™) and improves interface usability, while continuing to guarantee exceptional system monitoring and optimisation functions.

Another product making its debut is **pGDx**, the new touchscreen display designed to improve the user experience and make the human-machine interface more pleasant. It can be used both as a terminal and as a room thermostat, thanks to the version with built-in temperature and humidity sensors. Encompassing looks and performance, user simplicity and consistency with the past, everything on this display has been designed to simplify access to the available information.

As concerns commercial refrigeration, CAREL will be presenting the **pRack** solution for optimum management of all applications that use CO₂ as the primary or secondary refrigerant. This is a technologically-advanced solution in which system complexity - above all pressure, climatic conditions and synchronisation between components - is completely managed and optimised by the control system. pRack is the first controller on the market that can simultaneously manage three separate suction lines.

Presented as an alternative to classic architecture in which a compressor rack supplies cabinets with refrigerant along different distribution lines, **Heos sistema** is the most technologically innovative high-efficiency solution for managing cabinets and cold rooms in supermarkets. This in fact represents a new way of constructing refrigeration systems, using plug-in cabinets fitted with variable-speed BLDC compressors and cooled by a water loop.

Also on show will be control solutions for cold rooms, including the Cella Range, with products such as **UltraCella** and **SmartCella** that stand out for their modular solutions: from

management of single/three-phase power with savings in installation costs, to control of expansion valves for higher performance and energy savings.

Joining the consolidated solutions is **EVD ice**, the electronic valve driver for medium and low temperature units, a revolutionary device that can be installed directly on the evaporator inside the cold room, and can be completely integrated in CAREL or third party systems.

The CAREL booth will also be highlighting **heaterSteam Titanium**, the world's only humidifier with titanium heaters, extending the heaterSteam range and representing the pinnacle of this family of cutting-edge humidifiers. Completing the humidification offering on show at Chillventa is the **humiSonic** family of ultrasonic humidifiers, comprising the product for fan coils and showcases (humiSonic compact), the version for direct room humidification (humiSonic direct), and the version for air handling units (humiSonic ventilation).

During the exhibition, finally, CAREL will be actively involved in the Chillventa Technical Forum, with three presentations focused on high efficiency and energy saving: 'High efficiency CO2 transcritical DC condensing unit', by Giovanni Tonin, 'humiSonic direct: humidity control meets energy saving' by Valerio Nalini, and 'High efficiency residential AHU with active heat recovery', presented by Arne Müller.

CAREL @ Chillventa

hall 5, booths 306 & 308
Chillventa, Nuremberg
11-13 October 2016

#meetCAREL @Chillventa

To coincide with Chillventa, CAREL has added new social media accounts in order to follow the event in real time. Below is a list of all the tools available to discover the news from CAREL on show at Chillventa.

#meetCAREL @Chillventa dedicated website: <http://chillventa.carel.com/>

Twitter: @CAREL_group https://twitter.com/CAREL_group

Hashtag: #meetCAREL

LinkedIn: <https://www.linkedin.com/company/carel>

YouTube: <https://www.youtube.com/user/CARELHQs>

SlideShare: http://www.slideshare.net/carel_group

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About CAREL

CAREL is one of the world leaders in control solutions for air-conditioning, refrigeration and heating, and systems for humidification and evaporative cooling. Our products are designed to bring energy savings and reduce the environmental impact of equipment and systems. Our solutions are used in commercial, industrial and residential applications. CAREL has 19 fully-owned subsidiaries and 7 production sites, as well as partners and distributors in a further 75 countries.

For further information, go to www.carel.com