

CAREL Retail Sistema

Range, integration and ease of use
for natural refrigerants.



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Alessandro Greggio

Group Head of Marketing - Retail & Refrigeration

CAREL INDUSTRIES S.p.A.

What natural refrigerant products have you chosen to showcase at Chillventa and why?

CAREL will showcase a complete portfolio of solutions for natural refrigerants, including the pR300T, the flagship of our pRack range of CO₂ rack controllers. This is further complemented with the 140-bar high pressure range of valves for both gas coolers and system flash gas bypass management.

The comprehensive EEV range of valves on show is suitable not only for CO₂ applications but also for ammonia and hydrocarbons.

CAREL continues to drive developments for wider acceptance of natural solutions in warmer climates, with parallel compression and ChillBooster for adiabatic cooling.

Moreover, we are investing in enabling the use of CO₂ even in smaller capacity applications, and making vertical solutions available for compact racks and condensing units (pR100T, EZV-C).

Today, Carel offers a one-stop solution for the rack system, including dual compressor suction, on-board dual valve driver capabilities with built in Ultracap technology to ensure the high pressure valves close in the event of system power failures. All of these built-in features and functions benefit customers significantly in terms of CAPEX in electrical switchboards, as no additional controllers, wiring, solenoids or battery backup solutions are needed.

Last but not least, CAREL Heos and Hecu groundbreaking refrigeration system that will be on show will soon embrace natural refrigerants and are already providing an amazing 80% reduction in supermarkets' refrigerant charge (Heos) together with ultimate energy efficiency and food temperature stability.

What are the key product features and how do they help end users save energy and money and/or change the market?

The industry has been continuously investing in reducing and eliminating the gaps that can undermine or delay the introduction of CO₂ as a refrigerant in commercial refrigeration.

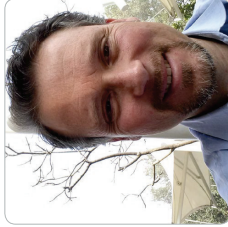
At CAREL, we have achieved good results by largely simplifying system installation and operation both at a field level and in terms of remote monitoring: touch graphic user interfaces for rack control, full integration and high-grade remote dashboards are all available and unique to CAREL.

For which region in Europe do you see the biggest growth/interest in natural refrigerant products?

As we know, CO₂ is already well established in northern Europe, and we can say that the technology is already suitable, however not yet widely used in central Europe.

The next technical and commercial challenges and interest will be in more southern latitudes, where parallel compression and ejectors will play a key role.

Europe is also an example and source of solutions for other regions, such as the Americas and Asia.



Giovanni Dorin
Marketing Manager
Dorin

What natural refrigerant products have you chosen to showcase at Chillventa and why?

Dorin has decided to focus on natural refrigeration for this edition of Chillventa and will be showcasing transcritical and subcritical compressors for CO₂, a full range of compressors from 0.4 to 80 Hp for HC (ATEX), and new single stage and double stage open type compressors for NH₃ ranging over 80 Hp.

Where is the product available?

Products are regularly available through our distribution network globally and for OEMs directly from our manufacturing facility.

How do you think your natural refrigerant product offering has evolved over the last few last years?

Speaking about CO₂, I should say that compressors now have better performance, are more compact and lightweight and are more reliable due to the decades of experience Dorin has with this technology.

What influence has the new F-Gas Regulation on your business?

With regards to new F-Gas Regulation, I would say that it is pushing and challenging companies to develop new solutions.

THE POWER OF BRAINS

A machine is only as good as the engineer who built it



CD400 SERIES – CD5000M MODEL

Compressor CD5000M from CD400 series, for now is the largest model Dorin is producing for CO₂ applications. It is a 4 piston model, characterised by a displacement of 30,23 m³/h and a nominal motor power of 50 hp.

SERIES CD

THE WORLD'S LARGEST CO₂ TRANSCRITICAL COMPRESSOR RANGE.
LEADING CO₂ COMPRESSION TECHNOLOGY FOR YOUR
ENVIRONMENTALLY CONSCIOUS SOLUTIONS

**DORIN is glad to welcome you at its
Stand 309, Hall 5 in Chillventa 2014**



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