CO_2 solution

Optimized CO_2 electronic system for retail applications

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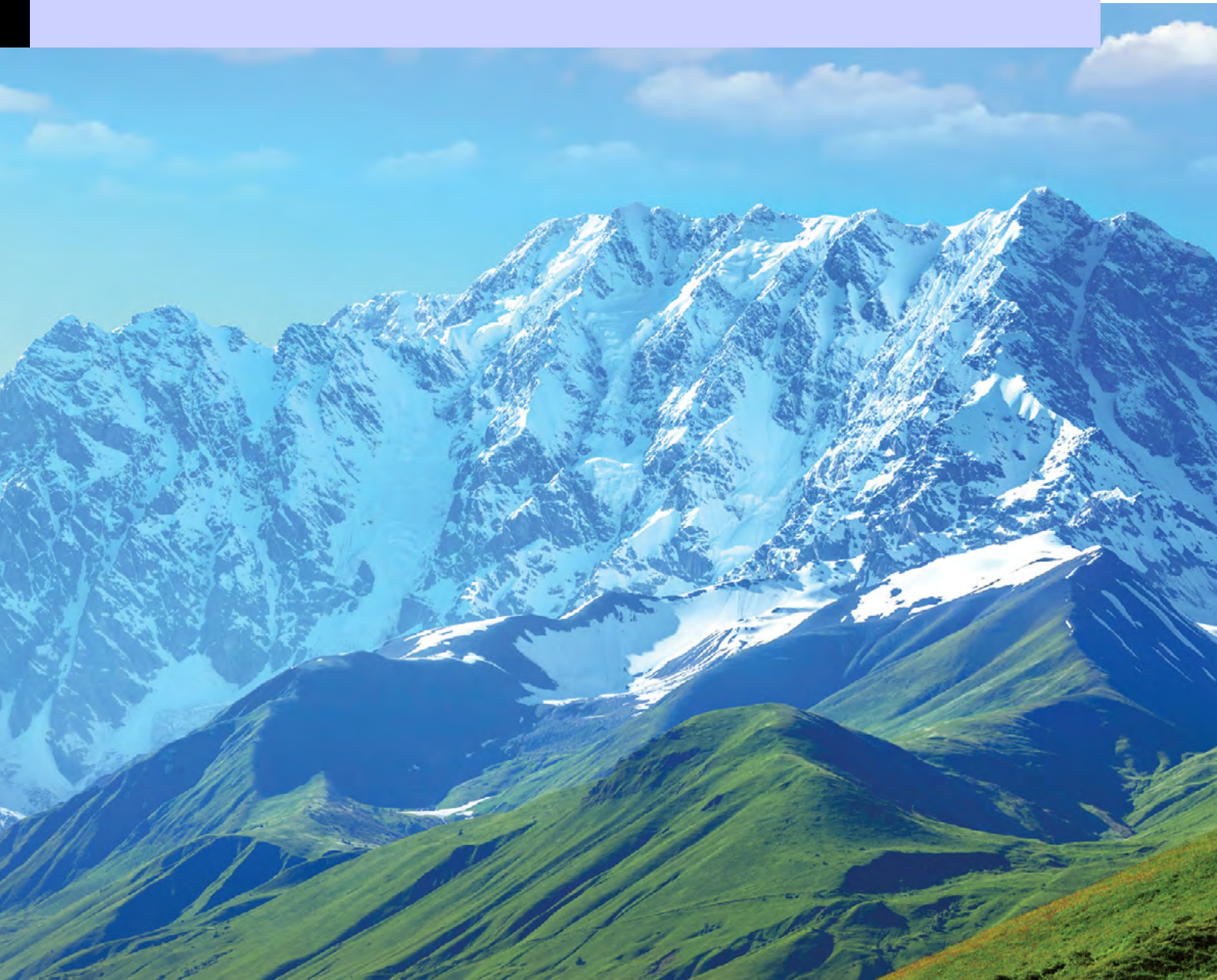
## Optimized CO_2 electronic system for retail applications

The XeCO$_2$ system is the complete and innovative solution for the retail world that ensures an optimized efficiency management of the CO_2 plants. XeCO$_2$ consists of controllers for refrigerated cabinets and compressor racks/condensing units and of monitoring and controlling systems.

XM600

High performance multiplexed cabinet controllers

- Advanced superheat management depending on the compressor rack status

- Performance improvement through the overfeed evaporators that result in less defrost demand

- Quick and easy installation thanks to pre-configured maps

- Smart function updates directly in the field

- High efficiency whether using a stepper or a PWM valve
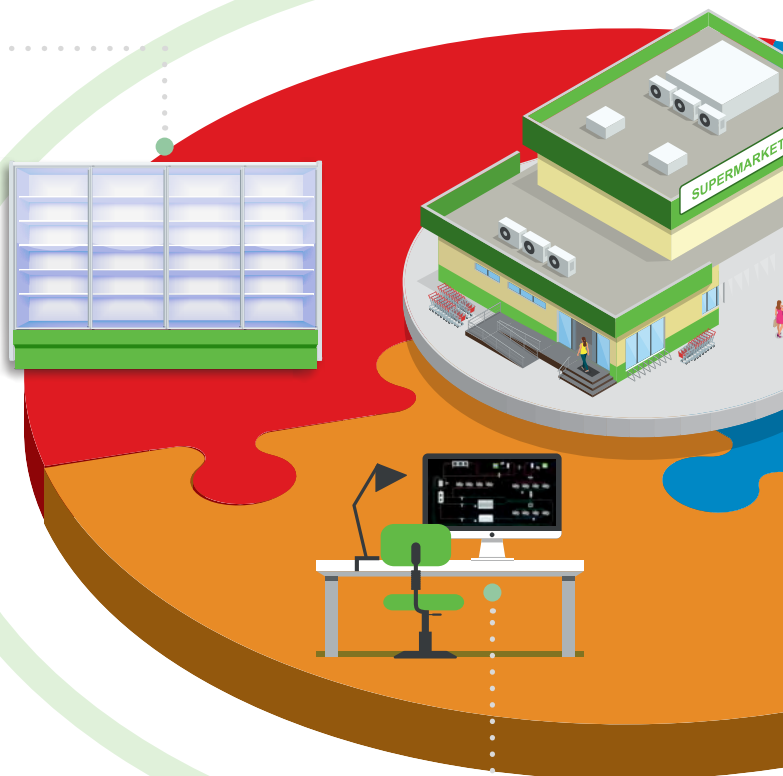
XWEB

Advanced controlling and monitoring systems

- Increased strategy-control performance thanks to XM600 & iProRACK synchronization

- 2 serial ports with 19200 max speed for independent field bus faster data reading

- Dual ethernet ports for service use

- Memory expansion via micro SD for configuration back-up

- Safer systems thanks to the synchronization among compressor racks, cabinets, and monitoring systems
- Powerful and adaptable hardware platforms for any control need
- Maximum efficiency thanks to dynamic superheat management
- Advanced algorithms for energy saving management
- Easy and intuitive installation and use
- Cost reduction through COP improvement
- Heat recovery and integration with HVAC systems for efficiency improvement
- CRO for compressor rack optimization via dynamic suction set point

UP TO 20%* ENERGY SAVINGS

*compared to a conventional transcritical R744 booster supermarket unit with parallel compressor, in a location with 20 °C of average external temperature

iProRACK

Controller platform for transcritical booster racks

- Complete management of dual heat recovery, gas cooler bypass, parallel compression and de-superheater
- High performance thanks to the evaporator overfeeding compatibility
- Warm climate solutions through parallel compression and the adiabatic function
- Increased compressor life by integrated oil injection management
- Safeguarding by gas leak detector compatibility
- High flexibility via a modular platform to satisfy any rack dimensionCost reduction through COP improvement
- Heat recovery and integration with HVAC systems for efficiency improvement
- CRO for compressor rack optimization via dynamic suction set point
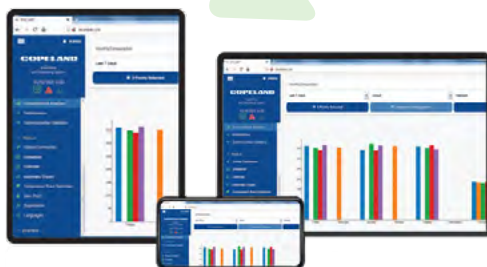
- Easier and faster access to information through the innovative web user interface
- Same rich user experience for PC, tablet and smartphone access
- Compatibility with ProAct Connect+ Enterprise Management Software

About Copeland

Copeland, a global provider of sustainable climate solutions, combines category-leading brands in compression, controls, software and monitoring for heating, cooling and refrigeration. With best-in-class engineering and design and the broadest portfolio of modulated solutions, we're not just setting the standard for compressor leadership; we're pioneering its evolution. Combining our technology with our smart energy management solutions, we can regulate, track and optimize conditions to help protect temperature-sensitive goods over land and sea, while delivering comfort in any space. Through energy-efficient products, regulation-ready solutions and expertise, we're revolutionizing the next generation of climate technology for the better.

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