



Refrigeration Business Unit Newsletter

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SPOTLIGHT ON:

μRack : Solution for condensing units & compact compressor racks
μChiller: Solution for high-efficiency commercial chiller/HP units



μRack

μRack is a complete solution for compact and efficient compressor racks. It offers a complete set of features to effectively manage condensing units and small compressor racks, ensuring a seamless blend of reliability, efficiency, and user-friendly operation. It has wireless connectivity with NFC (Near Field Communication) and Bluetooth interface to interact with mobile devices via the CAREL App "APPLICA".

Features

- Control of 2 suction lines, up to 6 compressors in total and first modulating compressor on each line
- Control of a condensation line: EC modulating fans
- Energy saving: floating suction and floating condensing setpoints
- Connectivity: Integrated BMS, NFC and Bluetooth.

μChiller

μChiller is the complete solution for chillers and heat pumps with DC and scroll compressors. It manages high-efficiency units with brushless DC compressors, ensuring optimal compressor protection, reliability, and efficiency.

It is compatible with natural refrigerants and low-GWP mixtures to meet the needs of unit manufacturers in terms of regulations such as F-Gas, EPA, ...

The distinctive feature of the μChiller range is wireless connectivity with NFC (Near Field Communication) as standard, as well as Bluetooth on dedicated models, allowing interaction with mobile devices using the CAREL "APPLICA" app, making it easier to configure parameters and commission the unit in the field.





50 YEARS OF CAREL

2019

Acquisitions

Interview with M&A Consultant

Valerio Nalini



In 2019, CAREL decided to start using acquisitions as a tool to accelerate its growth.

M&A was considered an investment aimed at rapidly bringing a series of assets on board. It would have otherwise taken much longer to develop internally, with more uncertainty.

Acquisition is essential due to the constant acceleration of technological development.

The Group's M&A strategy is based on three pillars: integration of complementary products and technologies into its offering, geographical expansion - in terms of increased foreign market share - and growing its services business.

Click [here](#) to read the full interview with Valerio Nalini, M&A Consultant, to learn more about his acquisition strategy.



New F-gas: goodbye HFCs?

The new regulation on fluorinated greenhouse gases (F-gas) will be published in the Official Journal of the European Union, and will come into force in spring 2024 after European Parliament's environment committee approves the proposal for a Regulation of the European Parliament and of the Council on fluorinated greenhouse gases.

There are many new bans on the use of refrigerants based on how much they potentially contribute to global warming, such as in the F-gas Regulation in force, but also on the fact of being a fluorinated refrigerant. These prohibitions will impact air conditioning systems and heat pumps (ACHP), refrigeration units and chillers.

Fluorinated refrigerants with a GWP ≥ 150 will be banned in all refrigeration applications, excluding chillers. The restriction in domestic applications goes beyond this limit, as the use of all fluorinated refrigerants will be prohibited from 2026. The limit of 150 for commercial and self-contained units will start from 2025. For units below 12 kW (comprising both air-to-water split and self-contained ACHPs, as well as chillers) the use of fluorinated refrigerants with GWP ≥ 150 will be banned from 2027.

Click [here](#) to read our full blog on the future of HFCs.

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