

## Press release

### Efficiency, digitalisation and energy intelligence: CAREL's innovations at ISH 2025



**Brugine, 11 February 2025** – From 17 to 21 March 2025, CAREL will be exhibiting at ISH 2025, **stand A61, hall 8**, with the aim of continuing to promote not only energy efficiency and reductions in emissions, but also **smart building management and technological innovation**, through the proposal of innovative, high-performance tools for a more sustainable future.

Heat pumps are a key element in reducing CO<sub>2</sub> emissions in **residential heating systems**. CAREL offers an integrated system of advanced controllers, high-efficiency inverters, and electronic expansion valves to optimise energy consumption and performance. Moreover, dedicated simulation software is available to create virtual models of **real thermodynamic units in a digital environment**, helping to reduce development times and minimise errors and malfunctions.

To guarantee indoor air quality in buildings, CAREL offers **energy recovery solutions for air handling units**, with thermal wheels, inverter-driven compressors, and advanced sensors that measure temperature, humidity and CO<sub>2</sub>. Smart management

systems in fact reduce operating costs while at the same time improving comfort and efficiency.

Smart energy management in buildings requires open, scalable platforms and a centralised approach. The offering presented by **Kiona, a new Group company exhibiting for the first time at the CAREL stand**, completes the proposals for managing services and energy in commercial and multi-residential buildings. Kiona's software-as-a-service platform uses self-learning AI to streamline automation and reporting, through a partnership that reinforces the Group's commitment to providing integrated solutions for optimal building control.

CAREL will also be presenting innovative new programming and simulation tools, based on **digital twin technology**, which revolutionise the way that HVAC/R applications are developed and tested. This approach opens up new perspectives for the optimisation and reliability of thermodynamic units, **reducing costs and improving operational efficiency**.

Finally, the new **PYC mini controller** introduces a higher level of specialisation for the sector, offering a **compact yet high-performance solution** that is ideal for HVAC applications where **flexibility, efficiency, and integration** with advanced systems are essential to meet market demands.

## Company Profile

CAREL is one of the world's leading manufacturers of control solutions for air conditioning, refrigeration and heating, and systems for improving indoor air quality. We design our products so as to bring energy savings and reduce environmental impact, thanks to the combination of the most advanced technologies and customised services, aimed at optimising the performance of equipment and systems. Our solutions are used in commercial, industrial and residential applications. Founded in 1973, CAREL employs more than 2000 people, with consolidated revenues of more than 650 million euros in 2023 (+19.3% over 2022) and operates through 47 branches and 15 fully-owned production plants.

### **CAREL@ISH**

Hall 8, stand A61  
Messe Frankfurt  
17 – 21 March 2025



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