

press release

CAREL wins the prestigious RAC Cooling Industry Award

The solution presented to the judges is a retrofit installation designed specifically for the purpose of implementing an Energy Performance Contract

London (United Kingdom), October 4, 2017 - CAREL has taken home the prize in the "**Building Energy Project**" category at the **RAC Cooling Awards** for the case study on Italy's largest retailer, which decided to invest in its HVAC systems (i.e. not the part relating to food refrigeration) at some of its stores, with the aim of **reducing energy consumption**.

In absolute terms, energy savings across the six stores came to 440,107 kWh, corresponding to a cost saving of € 13,412 (or 12.83%). In environmental terms, atmospheric CO₂ emissions were reduced by 198 tonnes. The investment will be paid back in 2.6 years, earlier than the initially-expected 3 years.

The new local control and supervision system is based on pyramid logic, and manages:

- the air handling units;
- the heating-cooling systems;
- the lighting.

The monitoring system in each store is also connected to a centralised (remote) supervisory system, representing the top of the pyramid. **System optimisation to maximise energy savings is the main focus of data centralisation, providing a benchmark for direct comparison between the different stores.**

Design and development of the final system were the result of careful analysis of the energy audit. Starting from this, a **machine learning** method was developed for **evaluating potential savings in different scenarios** and for subsequent comparison between actual consumption and estimated consumption without the improvement actions. The resulting comparison of the expected benefits in the various scenarios was used to support the management's decisions on what actions to take to ensure store efficiency, in terms of overhauling the buildings-systems.

Held this year for the 13th time, the RAC Cooling Industry Awards recognise the leading innovations and environmental successes in the refrigeration and air conditioning industry. With these cutting-edge results, CAREL has once again proved its role as a **reference partner for projects with high energy efficiency potential**.

Press information

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About CAREL

CAREL is a world leader in control solutions for air-conditioning, refrigeration and heating, as well as systems for humidification and evaporative cooling. Our products are designed to achieve energy savings and reduce the environmental impact of equipment and systems. Our solutions are used in commercial, industrial, and residential applications. CAREL has 20 fully-owned subsidiaries and 7 production sites, as well as partners and distributors in 75 countries.

For more information, go to www.carel.com