

# CLIMATE CONTROL CABINETS

WE CREATE REFRIGERATION TOWERS  
THAT SAVE ENERGY AND PROBLEMS

EWK needs its cooling towers to be environmentally friendly. In 2015, we became their technological partner in order to design a new control system associated with the different types of cooling towers and achieved great energy savings, something very important for our customer.

Thanks to the engineering and automation department of EXEL INDUSTRIAL, we developed a control cabinet using frequency inverters, soft starters, PLC control and ABB HMI visualization.



The control cabinet used in the cooling towers provides great advantages, in addition to extending the life of the equipment and its components and allowing us to have control over its performance in real time. The highlights include the following areas:

## **Energy saving**

The Smart Cooling Tower saves energy thanks to the Frequency Drive and its control loop, as well as the time setting.

## **Safety**

The Smart Cooling Tower incorporates various safety elements to protect the equipment such as water level and ice formation controls and emergency stops.

## **Health protection**

The different components with anti-legionella treatment provide high protection against bacteria.

## **Control and communication**

Information about the different parameters is available at all times in the control panel with integrated touch screen or can be accessed remotely.

## **Pre-diagnosis of failures**

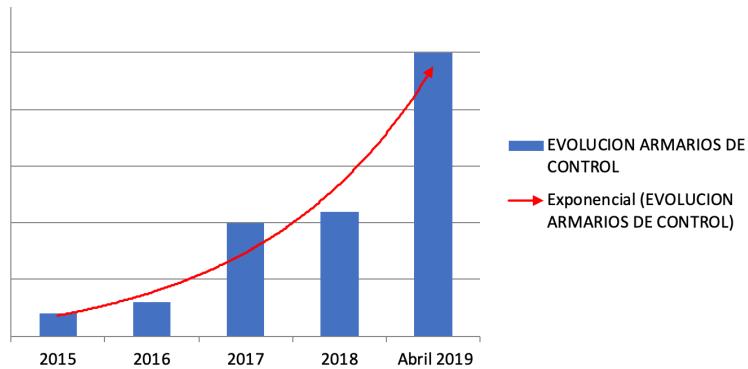
We place sensors in different elements that send specific information. If something goes wrong, we can immediately diagnose failures at the moment and avoid possible faults.

## Remote assistance

Thanks to an external temperature and humidity probe we can obtain all the information and thus offer assistance remotely.

Given the benefits highlighted above, the manufacture of this control cabinet has been consolidated in the market as shown in the following graph:

**EVOLUTION Nº CONTROL CABINETS**



Besides the design and manufacture of the Control cabinet, our automation technicians provide continuous support to verify the correct operation, even working remotely thanks to the installed control systems.

This collaboration between EXEL Industrial and EWK makes our technology evolve faster and more efficiently, implementing new improvements and specific systems adapted to the most demanding customers and providing a better service and final product.