

# CASE STUDY

## *GSK Pharmaceutical factory – Spain*

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*Electricity consumption reduced by 23% and cooling capacity increased by 20% on average after the installation of the intelligent adiabatic **Smart Cooling™** system at GSK España plant.”*



### CUSTOMER

GlaxoSmithKline is the world’s sixth largest pharmaceutical company, manufacturing vital products for health and life. Cooling efficiency and reliability for their manufacturing plants are serious issues for GSK.

### CHALLENGE

To implement energy-savings and environmentally-friendly manufacturing policies, GSK faced the challenge of finding a solution to reduce electricity consumption of its cooling units and lower CO2 emissions using sustainable technology.

At GSK España plant, outdoor air temperatures can rise above 38°C during heat season. The costs associated with cooling equipment operations rise dramatically and at times present a risk of equipment overload. GSK decided an effective solution should be put in place immediately.

### SOLUTION

The intelligent adiabatic **Smart Cooling™** system was installed at GSK España plant’s McQuay cooling equipment.

**Smart Cooling™** reduced the air temperature flowing into the cooling units by 15°C (29% lower), allowing the equipment to operate efficiently and produce the required cooling power the factory needed during even the hottest days.

Substantially improved air exchange in cooling equipment condensers and better operational efficiency were also achieved with **Smart Cooling™**.

### RESULTS

GSK engineering team’s evaluation shows that, with **Smart Cooling™**, CO2 emissions produced by cooling facilities decreased 17%, while electricity consumption was 23% lower. Cooling capacity increased by a whopping 20%, exceeding all expectations.



COOLING CAPACITY INCREASED BY

↑ **20%**



ELECTRICITY CONSUMPTION REDUCED BY

↓ **23%**

ROI  
**9**  
MONTHS

The intelligent adiabatic **Smart Cooling™** system is a proven, state-of-the-art cost-saving pre-cooling technology.

- Modular system
- Suitable for all types of dry coolers and chillers
- Easy and fast installation
- Certified system and approved by major cooling equipment manufactures
- Minimal maintenance

