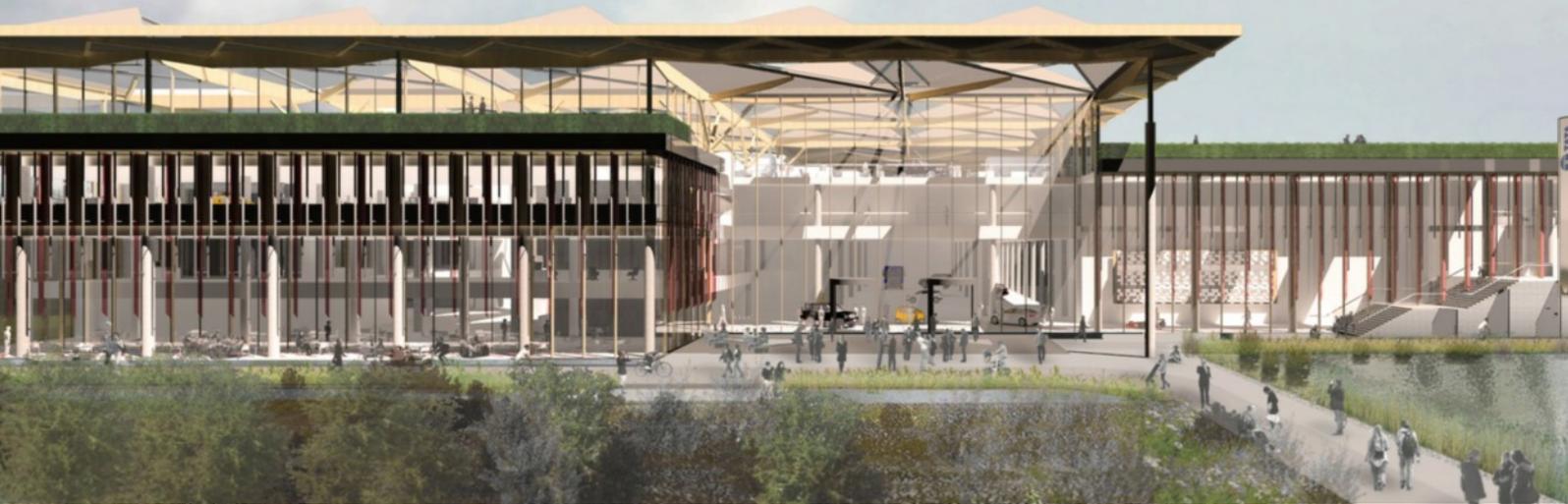


CASE STUDY

ColdLogik™



Jaguar Landrover, Gaydon
Containerised data centre

2011



The client

Jaguar Land Rover is a company that brings together two much loved, highly prestigious British car brands. After Tata Motors acquired Jaguar and Land Rover from Ford in 2008, it merged the two marques into a single company and its success has flourished, with memorable vehicles and innovative technologies that add to a long-lasting legacy.

Advanced design, engineering and technology have all played a part in Jaguar Land Rover's success over the years. The company invests more in research and development than any other manufacturing company in the UK, which has allowed our thousands of world-class engineers to develop world-class innovations. It is these breakthroughs that Jaguar Land Rover can rely on to build better-performing vehicles, lower our environmental impact and inspire customers.

The brief

In 2011 Jaguar Landrover required a high density containerised data centre, the project was overseen by our Spanish partners AST Modular who utilised our designed in the cooling superiority and energy savings of ColdLogik rear coolers for this prestigious project.

Parameters

The 40 foot container was to be fully utilised for IT incorporating 17 racks each of which had to have flexible duty. Jaguar Landrover subsequently added a two further containers to the site utilising the same design as the initial installation

Solution

USystems supplied USpace server cabinets and ColdLogik rear coolers which had a 18°C water supply temperature from the dry air cooler and chillers.



Modular containerised data centre



Kilowatt duty

A maximum data centre load of 460kW per container with an N+1 rating requirement.

Energy savings

The ColdLogik solution offered a major energy saving on a CRAC based design, but also saving the floor footprint and removing the need for a false floor

Room density

17 ColdLogik rear coolers with up to 30kW duty per rack

PUE

The system operates at 1.2 - 1.26 PUE

Future

Jaguar Landrover have added two more containers (2012/2013) to their data centre based on exactly the same design.



“Responsibility means incorporating both long and short term economic, environmental and social considerations within our decision making and day to day work, for the benefit of our products as well as the world in which we operate.”



Client's comments

The containers were built and populated in Spain - USystems delivered their racks and rear coolers directly there and once returned to the Gaydon site was commissioned by their excellent team of engineers.

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