

# **DAJO** Solutions

Developing and exploiting machine intelligence



## **Industries:**

Leisure & Tourism

## **Applications:**

Controlled environments

## **Solutions:**

Cross platform compatibility, distributed intelligence, Moeller

## **Keeping the old masters cool**

The National Gallery's refurbishment programme included enhancements to its cooling system. Moeller's advanced automation technology together with the expertise of DAJO Solutions, implemented a solution that met their tough requirements.

The original system employed six chillers in combination with main and auxiliary control panels for four compressors. A major limitation of this system was poor part-load performance.

To overcome this, DAJO Solutions split the auxiliary control panel from the main panel. Enabling individual control of the chiller units, and allowing the National Gallery to match capacity to building load more efficiently.

The new control system also faced an additional challenge. It had to integrate with an existing PLC controlling practically all of the building's functions; including climate control, power distribution and lighting. The solution was to network the new chiller controllers to a single Moeller PLC which then integrated with the existing building management system. This implementation not only allowed individual control of the chillers, it also enhanced the level of communication to and from the devices.

James Cheesewright, the National Gallery's project manager explained: "*The new Moeller system gives us the ability to control operating capacity according to demand. Delivering considerable energy savings over the previous system,*" He continued, "*we have comprehensive control of the chillers, down to each compressor and evaporator fan, providing us with considerable advantages in terms of maintenance management,*"

To find out how DAJO solutions can support you in making your controlled environment more energy efficient and enhance system transparency contact us on 01327 354 693 or e-mail [office@dajo.co.uk](mailto:office@dajo.co.uk)