



## Project Reference



Project: Imperial College London

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## Imperial College London

<b>Project:</b>	Imperial College London
<b>Location:</b>	South Kensington, London
<b>System:</b>	CO <sub>2</sub> Mission Critical Cooling
<b>M&amp;E Services Consultant:</b>	hurleypalmerflatt
<b>Main Contractor:</b>	Modus
<b>Contractor:</b>	Trox/Star Refrigeration



The Mission Critical Cooling System was completed in December 2005 as part of a refurbishment project at Imperial College London, in its E-Science Computer Suite within the Mechanical Engineering Building.

The system comprises of a combined air-cooled R134a chiller and CO<sub>2</sub> plant (CO<sub>2</sub>OLairpac), fully welded stainless steel secondary CO<sub>2</sub> distribution pipe work, gas detection/isolation, and cabinet coolers type CO<sub>2</sub>OLrac. The system has a capacity of 300kW via 15 x 20kW CO<sub>2</sub>OLrac units.

To offer added flexibility, the CO<sub>2</sub>OLrac units were supplied with an installation mounting frame. This enables the client to install various types/sizes of equipment cabinets as required during the operation of the space.

A UPS backed condensing unit protects the CO<sub>2</sub> charge in the event of power failure.