

Cooling Remedy for City Data Storage

Cool Energy have provided a temporary 350kW cooling package to a central London specialist data storage and virtualisation services provider.



Uncertain Services

A contractor was mid-way through the refurbishment of existing services on site, which included the central cooling system, but could not guarantee the delivery of new equipment to meet a tight completion deadline.

Cool Energy were called in to assess the heat load within 2 specific areas of the building and to recommend an out-of-hours installation timetable.

The contractor was under-pressure and needed a solution to help provide temporary cooling to 2 separate floors, which needed to remain operational. In addition to this, any installation work should not impact on or delay on-going refurbishments.



Project Go Ahead

Cool Energy were able to design a twin operating system with 100% standby as the client needed additional contingency cooling in case of failure.

The go ahead was given and 2 x 375kW low noise chillers (pictured) were specified in addition to 12 off 50kW internal Air Handling Units (also pictured below).

Low noise chillers were employed to meet strict noise criteria locally due to residents nearby. Cool Energy were asked to meet guidelines of 58dB(A), but were able to provide a sound pressure level of 54dB(A) @ 10m.



Cooling Solution

Cool Energy mobilised 4 installation engineers to complete the project over a Friday evening and Saturday period, to help meet the needs of the contractor.

Due to a lack of external space, both chillers were located in the rear goods in area, with a scaffold tower being employed to help safely distribute the temporary water ring main and power cables.

Multiple air handling units were employed to produce the correct amount of cooling to each specific area, with some employed for downflow operation.

Static pressure in some areas was also managed by providing bespoke centrifugal fans, in order to deliver the correct pressure throughout both rooms, with airflows ranging from 1,500m³/hr and 5,000m³/hr per unit.

The 2 independent cooling circuits supplied adjustable temperatures to both areas and airflow flexibility, which was a feature of the clients specifications, necessary to meet stringent room conditions for their equipment.



Cooling Experience

Russell Wilson, Cool Energy's Rental Director (pictured below) explained more about the project, "One of the interesting facts about this application was how a major problem for a business client could be turned in to a manageable situation by their contractor.



In our experience, most process projects or HVAC refurbishments have some sort of unplanned delay with new equipment delivery or commissioning faults.

Our aim is always to provide a technical solution and tailor-made service for these situations and then make it commercially beneficial too.

In this particular case, we were able to complete our installation over 2 days following all safety checks, so the contractor and their client were very happy.

They received a service that didn't interfere with their on-going project and also help solve a costly problem."

Wide Coverage and Product Range

Cool Energy, who operate throughout the UK, Ireland and Europe offer a wide range of cooling and heating rental plant, including chillers as small as 1kW all the way through to 1,250kW single units, air blast coolers, cooling towers, air handling units, fan coils, boilers, heaters and air conditioners on a same or next day basis.

They also supply bespoke installations alongside the supply of flexible water hoses, pipework connections, power cables, heat exchangers and power generators.

All of this is supplied with 24/7 maintenance throughout the rental period.

Nationwide contact on 0800 840 4210 to book an emergency visit and order equipment fast.

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