

Case study 306

International Mobile Phone Company Seeks Urgent Cooling

An international telecommunications company headquartered in France required emergency cooling at its UK offices. The client's existing air conditioning system was to undergo maintenance during a two day window, which meant we had to install an alternative before this began. Old pipework needed to be replaced and would have left server rooms vulnerable to overheating if effective temperature control was not present. Andrews Chiller Hire was contacted regarding a solution and following a site inspection, we opted to deploy multiple chillers rather than a solitary high capacity model. This was due to the need for cooling throughout various parts of the premises, which was easier to regulate by using three separate units.

The requirement of constant access to the server rooms meant that hoses could not be left trailing across the floor due to safety regulations. Instead, our engineers decided to feed hoses beneath floor panels in corridors and between walls – ensuring there was no risk of employees tripping over. Two 50kW chillers and one 100kW chiller were stationed around the building, guaranteeing service laboratories and communications rooms were sufficiently cooled.

Interestingly, there was already a 375kW chiller on the premises for general air conditioning as their chiller system had broken down. The duration of hire was only one week, with the programmed works comfortably completed during the time originally allocated. Once the pipework was replaced, we revisited the location and decommissioned all equipment before taking it back to the depot. The client was so satisfied with our service they detailed Andrews Sykes for all future heating and cooling assignments.



Nominal cooling duty 50 kW 170,500 btu
Plug type BS4343 32 A 5 pin
Power supply 415 V 3 ph N+E 50hz Run 30.25 A/hr
Average power consumption 16.21 kW/hr
Noise level (max) 81 dBA @ 10 metres
Generator size 50 kVA
Weight 600 kg
Nominal heating duty (HP version) 50 kW 170,500 btu
Dimension 1,080 x 1,320 x 1,750 mm
Water connection 1.25 Camlock
Control Automatic programmer



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