

Case study 417

Cooling For Broadcaster Server Room

Server rooms, IT apparatus and communication facilities are all designed for continuous operation, but internal factors can sometimes contrive to cause disruption. Ineffective climate control is one of the most common contributors to servers and vital electrical equipment breaking down, and if this isn't addressed quickly there can be crippling consequences. So when a TV broadcasting company suffered chiller failure in one of their main communication rooms, an immediate solution was sought.

A business-critical IT system went offline as a result of soaring temperatures, which led to the client contacting Andrews Air Conditioning via their facilities manager. The call came out of hours – at 9:30pm – but we were still able to deliver replacement cooling units to the building and ensure productivity was restored.

We recommended equipment based on details given during the initial enquiry, and within two hours of preliminary contact three PAC22s were being installed on site. These were selected primarily because of their energy efficiency – an essential characteristic given that these would need to be in operation 24 hours a day. This proved to be an adequate response as the temperature dropped to an acceptable level shortly after deployment.

Two weeks after this project, another chiller system went down inside the same premises. This meant that a similar solution was necessary in order to retain normal output targets. Andrews Air Conditioning received a call at 8:30am on Saturday morning, and by 10am the same day, another two PAC22s had been delivered to the location.



Nominal cooling duty 6.5 kW
Indoor noise level (max) 65 dBA @ 3 metres
Typical cooled area 156 m²
Outdoor noise level (max) 62 dBA @ 2 metres
Power supply 230 V 1 ph 50 Hz Run 11 A
Indoor weight 119 kg
Control Automatic thermostat
Outdoor weight 20 kg
Average power consumption 2.4 kW/hr
Outdoor dimensions 285 x 565 x 520 mm
Indoor dimensions 820 x 390 x 1,245 mm
PAC line length 5 metres (max 30 metres)



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