Case study 433

TV broadcaster's servers keep cool

At Andrews, we understand the importance of maintaining the optimum temperature for computer suites, server rooms and related telecommunication equipment. In the broadcasting industry particularly, server failure can have devastating consequences including live transmissions being interrupted. An ever-increasing reliance on IT systems in the modern day has led to the demand for effective air conditioning soaring – and we have the resources to accommodate this.

One of our clients – a British broadcaster based in Surrey – needed a temporary cooling solution for their outdoor vehicle, due to excessive heatloads being produced by computers inside. The company was actually airing from outside White Hart Lane football ground while covering one of Tottenham's Europa League fixtures.

The customer contacted us at 3pm, with the match due to be played the same evening, which meant we had to react quickly to ensure the requirement could be satisfied. Within two hours, we had delivered and installed an ET21 portable air conditioning unit along with cold air duct. We suggested this particular model because of its ability to provide a direct cold air flow and bring down temperatures in areas up to 133m^3 in size.

Despite the application being relatively small, the project was critical as the broadcast was set to be shown to a number of countries in Europe. Our quick response provided an essential safeguard, and the client was very happy with both our reliable service and the effectiveness of the unit we supplied.

Nominal cooling duty 6.2 kW
Air flow (max) 780 m3/h
Power supply2 30 V 1 ph 50 Hz Run 11 A
Noise level (max) 68 dBA @ 1 metre
Weight 86 kg
Exhaust duct 9 metres
Control high pressure switch
Average power consumption 2.41 kW/hr
Operating range 15
Indoor dimensions 590 x 490 x 1,300 mm