

Case study 323

Andrews Chiller Hire salvage data room

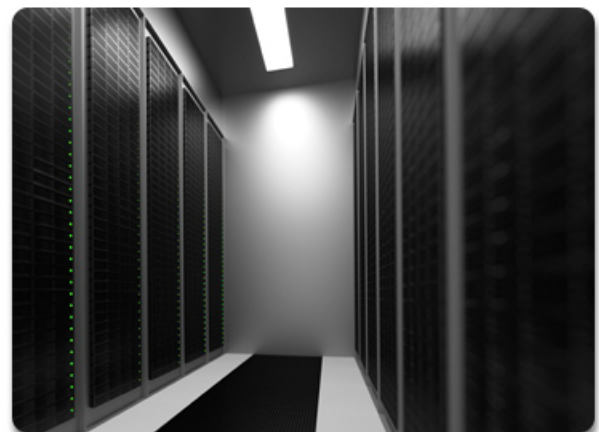
When a global organisation encountered trouble with one of its main data centres, there was an immediate risk of the entire air conditioning system being shut down as a precaution. A potentially catastrophic leak was discovered in the Milton Keynes-based facility's pipework, thus preventing chilled water from reaching air handlers stationed inside. This issue could have cost the company in question millions of pounds if not addressed quickly, at which point Andrews Chillers Hire were contacted and tasked with proposing a solution.

The data centre was spread over two floors with the majority of the heat load covering the upper level. Blade servers operating on the site are notorious for using high levels of energy in order to function, and there was therefore a serious risk of them exceeding the maximum temperature in the absence of appropriate cooling.

After sending an engineer to site to assess specifications and requirements, it was decided that hired equipment would be placed on the east and west side of the building. Each side was subsequently equipped with a 750kW fluid chiller and five 150kW air handlers, as well as a fuel tank, generator and necessary hosing.

Each set of doors were opened to enable ducting to connect air handlers to the main unit. The arrangement we suggested provided enough cooling for the resource's maintenance team to shut down their existing system before bleeding it. This measure safeguarded against any hardware failing and thus prevented the customer incurring serious financial implications had the servers broken down.

Our client was extremely satisfied with our swift response, which saw an entire chiller hire package installed on the premises within two hours of the original callout. It is also worth noting that the problem actually occurred out of hours – on a Saturday afternoon – making our near-instant reaction time all the more impressive.



Nominal cooling duty 750 kW
Noise level (max) 77 dBA @ 3 metres
Weight 7,450 kg
Dimension 6,058 x 2,438 x 2,591 mm
Control Automatic programmer
Plug type Hard wired (4 x 240 mm2)
Average power consumption 179 kW/h
Generator size 550 kVA
Low temp -12C
Power supply 415 V 3 ph +E 50 Hz Run 576 A
plus pump set
Water connection 100mm (4") bauer / DN100 PN16 Flange
Nominal water flow 37.5l/s



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