

Air conditioning hire maintains telecommunication giant's broadband service

The temperature of a server room is arguably the most critical metric to consider in a data centre environment, with catastrophic consequences for hardware overheating. Keeping computer equipment and electronic components at a consistent, cool temperature is imperative and eliminates the likelihood of suffering any downtime caused by malfunctions.

Our familiarity with this sensitive industry has seen us install temporary cooling solutions for big name customers across the country. So, when a major telecommunications provider encountered chiller failure at one of their London locations, the facilities manager responsible for the premises contacted Andrews Air Conditioning immediately.

The client's existing cooling mechanism was unable to function as pipework feeding internal air handling units was badly damaged, preventing chilled water from passing through the system. As a result, major repair works would need to be carried out, necessitating that an emergency temporary cooling arrangement was deployed until this could be completed.

Our engineer proposed the use of two 100kW chiller units to be deployed outside the building and connected to a number of 15kW air handling units positioned inside the two server rooms requiring cooling. Given the urgent nature of the project, all kit was delivered, installed and operational a short while later despite receiving the enquiry during a very hot weekend.

With the chillers up and running within a few hours of us being made aware of the issue, we were contacted again the next day with the client needing a separate cooling solution. They sought some additional units to keep temperatures below 10°C in a battery room situated in the same building, with two PAC 60 air conditioning units supplied later that afternoon.

This job is an excellent example of Andrews' ability to call on our resources with minimal warning and deliver short-term cooling to a client following two unconnected requirements in the same building. By reacting as quickly as we did, we were able to preserve the broadband connection of hundreds of thousands of properties in London despite various logistical challenges.



Nominal cooling duty 17 kW
Air flow (Max) 3,500 m³ /h
Typical cooled area 410 m²
Power supply 415 V 3 ph 50 Hz 17 A
Also available in 230 V 1 ph 60 Hz
Plug type BS4343 5 pin 32 A
Indoor noise level (max) 65 dBA @ 3 metres
Outdoor noise level (max) 70 dBA @ 3 metres
Indoor weight 230 kg
Outdoor weight 113 kg
Indoor dimensions 1,000 x 640 x 1,610 mm
Outdoor dimensions 820 x 605 x 1,085 mm
PAC line length 15 metres (max 30 metres)
Control Automatic thermostat*
Average power consumption 5.5 kW/h



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