

Case study 415

Temporary Cooling System Keeps Servers Active

A nationally-renowned exploration and production company needed emergency assistance at their offices in Aberdeen, while old Close Control air conditioning units were replaced. This meant that a temporary alternative was required immediately in order to keep a large server room sufficiently cool. Following a site survey, it was decided that an H-PAC 90 system would be delivered and installed, as it most closely replicated the capacity of the Close Control units.

In order to accommodate the need for ducting, we removed two windows and replaced them with plywood. Two holes were then subsequently cut into the plywood, allowing ducting to be passed through and into a plenum in the facility's server room. The plenum chamber's main function was to equalise pressure, thus ensuring cold air was evenly distributed throughout the area; the H-PAC 90 unit has a maximum duct length of 50m flow and 8m return.

The unit itself is our largest mobile air conditioning model, and capable of cooling a range of applications including workshops, marquees or even open plan areas. Simple installation via a standard 3-phase power supply enables the product to be fully operational within minutes – crucial in this instance. Had the servers – which control North Sea oil rigs – crashed or been affected by excessively hot temperatures, production would have been frozen until they were back online. Following deployment of the equipment, our engineers hung all ducting from the roof of a loading area to eliminate the risk of it being a trip hazard to others on site.

Despite the urgent nature and delicate surroundings involved in the project, we provided a rapid and effective solution to the problem at hand. The customer was therefore very pleased with our service as it guaranteed all production schedules were met before deadline.



Nominal cooling duty 90 kW
Dimension 2280 x 2030 x 2450 mm
Air flow (max) 15000 m³/h
Plug type 125 amp 5 pin
Typical cooled area 2000 m²
Average power consumption 48.4 kW
Power supply 415v 3 ph 84 amps
Duct length (max) 50 metres
Noise level (max) 75.2 dBA @ 3 metres
Duct diameter size 600 mm



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