

Case study 307

Data Centre Requires Temperature Control

A data centre in Gloucestershire expanded their data capacity by adding additional data banks to one of their existing sites. The mandatory temperature needed to ensure the servers kept working could no longer be maintained with their current supply of air conditioning and Pac 22's alone. Therefore a chiller and air handling units needed to be on site and installed as soon as possible.

This data centre serves a very large area in the South West of England so there was absolutely no option to shut the data centre down or cause even the slightest temperature increase. A 100kW chiller was connected to four 30kW air handling units. These were positioned specifically to create corridors of cool air around the servers to support the additional data banks that were in the process of being installed. In the likely event that more data equipment is added to the site, it is pre planned that a larger 200kW chiller will be commissioned along with extra air handling units.

The large company for which the chiller was supplied have a number of data centres in a similar situations. Many of their centres are on the verge of expanding and they have specifically requested that should their air conditioning not be adequate in other sites, we shall recreate the same installation scenario. They were very pleased with the effectiveness of the chillers and that a large problem was solved simply by installing the equipment.



Nominal cooling duty 100 kW 341,200 btu
Plug type BS4343 63 A 5 pin
Power supply 415 V 3ph +E 50 Hz Run 70 A/hr
Average power consumption 31.6 kW/hr
Noise level (max)58.5 dBA @ 10 metres
Generator size 75 kVA
Weight 1,790 kg
Nominal heating duty (HP version) 100 kW
341,200 btu
Dimension 3,100 x 1,330 x 2,775 mm
Water connection 2 Bauer
Control Automatic programmer



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