

# Case study 436

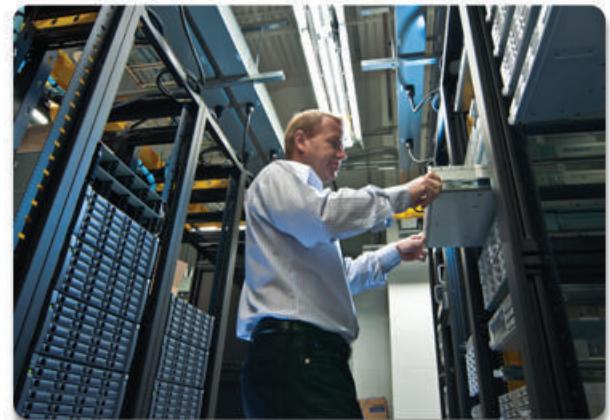
## Large data centre kept operational

When computer rooms, data centres and similar applications suffer breakdown, the implications can be catastrophic if the issue is not addressed quickly. Modern technology facilitates round-the-clock operation but when electronic hardware is in continuous use it becomes susceptible to overheating unless the necessary precautions are taken and maintained. The nature of 24-hour business means that companies simply cannot afford to lose servers or telecommunication equipment for any period of time. If this becomes a possibility, immediate action must be taken.

One of the world's largest innovative solution providers had to repair the air conditioning system at their data centre in the South East, we were called in to implement a temporary hire solution. An ageing pipe network needed to be replaced which meant the entire arrangement would have to be taken offline to enable new parts to supplant what was originally in place. It was therefore essential that we installed a separate cooling arrangement during the intermediary period – ensuring that temperatures within what was a sensitive environment were kept at a desirable level.

After conducting a thorough assessment of the area, it was decided that four PAC 22 portable air conditioner products would adequately suppress the risk of servers overheating. This model is capable of reducing temperatures to as low as 10°C and was specifically designed with IT facilities in mind.

The hire package we recommended therefore allowed our client to carry out an important upgrade on their current air conditioning system, with all units remaining on site until the project was completed.



Nominal cooling duty 6.47kW  
Air flow (max) 990m<sub>3</sub>/h  
Typical cooled area 156m<sub>3</sub>  
Power supply 230V 1ph 50Hz Run 7.3A  
Noise level (max) 52 dba @ 3m  
Indoor weight 122kg  
Outdoor weight 20kg  
Indoor dimensions (mm) 850 x 380 x 1,240  
Outdoor dimensions (mm) 565 x 285 x 520  
PAC line length 5 metres (max 30 metres)  
Control Automatic thermostat  
Average power consumption 2.0 kW/h  
Optional cold air duct 2 x 200mm x 5m



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