Case study 462

Air conditioning hire safeguards server room

Andrews Air Conditioning Hire recently received an emergency enquiry from a building services engineering company in search of an effective cooling solution to temporarily replace the fixed system in their communications room.

The client in question was undergoing a major refurbishment project which involved taking their air conditioning system offline for an extended period of time.

Ensuring the optimum temperature in computer suites, server rooms and telecoms facilities is essential to the continued operation of all businesses, and our client's was no different. With today's ever-increasing reliance on IT equipment, effective air conditioning systems play a critical role in ensuring that the correct environment for sensitive equipment is constantly maintained.

Our specialists visited the site to complete a survey and ascertain the exact requirements for this job, eventually deciding upon three PAC22 temporary air conditioning units accompanied by three heat exchangers. Our solution was to site one PAC22 inside each section of the comms room, run the hoses on the ground to a large ventilation duct and place the heat exchangers at the base of this ventilation duct so that warm rose through the duct and out the building.

Once the short-term cooling package was installed it had an immediate impact by reducing temperatures with noticeable effectiveness. Our customer was so impressed with our expertise and equipment that they decided to hire another four units for a separate comms room at a different location.

Nominal cooling duty   6.47kW
Air flow (max)   990m$_3$/h
Typical cooled area   156m$_3$
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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