

Case study 151

Andrews hire successfully aids heat load test

Following the construction of a new building, it is common practice that a thorough heat load test is conducted in order to verify the electrical and climate control capacities within the application in question. By carrying out these surveys under strict parameters, we can help our customers ascertain the efficiency of air conditioning systems and comfort cooling in all parts of the premises.

The construction of two new buildings belonging to a well-known self-storage company was recently completed in South London, but before the structures could be occupied, a thermographic inspection was required. A four-storey office block and separate warehouse were therefore analysed per the instruction of the storage firm, ensuring any heat leaks and faulty thermal insulation could be identified as early as possible.

Once this data is recorded, the client can use the results to improve the efficiency of heating and air conditioning within the buildings themselves. As there was no heating system in place, a temporary hire installation was needed to provide hot air continuously for a 20-hour period. A high capacity FH4000 indirect oil-fired unit was therefore selected for the project and deployed outside. The shutter doors were then opened just enough to allow ducting to be fed underneath.

A desired temperature of more than 20°C was maintained for almost an entire day, enabling the heat load test to be successfully completed at the first attempt. The equipment we provided was PAT tested, delivered and installed the morning after an out-of-hours enquiry, with our heater hire arrangement working so well that the customer has already asked us to oversee similar tests at other sites nearby.



Nominal heating duty 383 kW
Air flow (max) 24,000 m³/h
Typical heated area 8,457 m³
Power supply 415 V 3ph 50 Hz
Plug type BS4343 4 pin V 32A
Noise level (max) 76.5 dBA @ 1 metre
Weight 1,300kg
Dimensions (mm) 3,850 x 1,200 x 2,015
Duct length (max) 40 metres
Fuel consumption 38 l/h



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