Case study 139

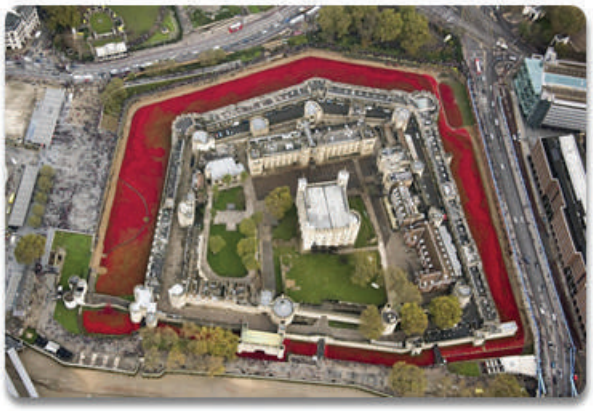
Andrews oversee heat load test at the Tower

IBefore a new chiller system can be officially deployed, it is common practice to simulate the amount of energy required for the equipment to work effectively. This process – known as heat load testing – is generally carried out on newly installed units to ensure the necessary cooling capacities are verified prior to being commissioned.

So when one of London's most visited tourist attractions sought assistance overseeing what transpired to be a complex assessment, they contacted Andrews Heat for Hire. The Crown Jewels exhibition room located within the Tower of London had just had a new chiller arrangement fitted, meaning a reliable heat source was needed to conduct obligatory tests. We supplied two DE190 electric heaters to the client which would adequately provide the 80kW of heat required in this instance.

Due to the complicated nature of the project – which involved approximately ten different contractors in total – it was imperative that we delivered the units within a set timeframe. Had we failed to get the heaters to site, the whole assignment would have failed. An average of 8,500 people visit the attraction per day and this high footfall could have posed a potential problem had strict guidelines not been properly ad hered to.

As desired, we set up both DE190 products first thing one morning with a view to collecting them from the site at 17:30 the same day. Although this allowed little room for error – with so many other independent companies working in the vicinity – we successfully completed our part of the task and removed both heaters within the allotted window.



Nominal heating duty 42 kW
Air flow (max) 4,500 m³/h
Typical heated area 1,200 m³
Power supply 415 V 3ph 50 Hz
Plug type BS4343 3ph 5 pin 63A
Generator size 60KVA
Noise level (max) 68.7 dBA @ 3 metres
Weight 120 kg
Dimensions (mm) 1,360 x 630 x 950
Duct length (max) 32 metres
Average power consumption 43kW/h