

# Case study 444

## Andrews keep governing broadcaster online

Prior to the 2012 London Olympic Games, the country's Independent Broadcasting Authority was relocated to the regenerated Queen Elizabeth Park as part of an eco-friendly build. Although a modern structure with state-of-the-art facilities, the building's location and glass design has led to numerous offices within it overheating during periods of blazing sunshine.

The heatwave in July 2016 therefore caused much discomfort for those inside and led to an immediate need for temporary cooling on numerous floors of the premises. An Andrews Air Conditioning Hire technician was then sent to site to ascertain the best way of overcoming the problem at hand.

Following a thorough assessment of the building's upper levels, it was decided that five PAC 22 cooling models would be adequate for reducing temperatures to a more comfortable level. By placing our split line units in strategically selected zones, we were able to ensure that a constant and cool flow of air was reaching the most affected areas. The engineer made sure to place units away from the front glass area so as not to consume the cool air produced. This would otherwise have counteracted the effect we were looking to achieve.

In order to conceal the presence of our equipment, we placed our connecting lines beneath a void in the floor. This was a clearly stipulated requirement of the installation and meant that there were no trip hazards causing problems to those working in the office. The air conditioning hire package worked perfectly while seasonal temperatures were above 22°C and was scheduled to remain in place until conditions tailed off.



Nominal cooling duty 6.47kW  
Air flow (max) 990m<sup>3</sup>/h  
Typical cooled area 156m<sup>2</sup>  
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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