

# Case study 452

## Andrews provide temporary cooling hire for exam hall

When exam season approaches, most schools in the UK take early precautions to ensure pupils remain cool. For years now, school examinations always fall in the hottest months of the year, resulting in complaints about high temperatures from both staff and students.

So, when our customer was tasked with cooling a sports hall during exam weeks, they contacted our specialist Air Conditioning Hire division in search of a solution that would be effective in cooling such a large space.

The application in question has a metal roof which causes it to overheat in high temperatures. Once an Andrews technician had surveyed the hall, they were able to recommend the use of a HPAC 90 temporary air conditioner. The unit was stationed outside the building, with two flexible ducts being ran at ground level into the sports hall parallel to each other.

Once commissioned, our short-term cooling arrangement was used to pump cold air into the space prior to an exam taking place - switching the unit off once the exam commenced. Our client was extremely complimentary of our service and unit which managed to successfully reduce the overall temperature in the exam hall, providing a comfortable environment for pupils and teachers.



Nominal cooling duty - 90 kW  
Nominal heating duty - 90 kW  
Air flow (max) - 15,000 m<sup>3</sup>/h  
Typical cooled area - 2000 m<sup>2</sup>  
Power supply - 415 v 3 ph N+E RUN 84 A  
Plug type - BS4343 125 A 5 Pin  
Noise level (max) - 75.2 dBA @ 3 metres  
Weight - 1,640 kg  
Dimensions (LxWxH) - 2,280 x 2,030 x 2,450 mm  
Duct length (max) - 48 metres  
Control - Automatic thermostat\*  
Average power consumption - 48.4 kW/h  
Duct Diameter - 600 mm  
\*Capable of operating down to 10°C



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