

# Andrews Dehumidification assists Sheffield school construction

The construction of a new school in Sheffield prompted one of the country's leading infrastructural companies to get in touch with us to assist with the latter stages of completion. The contractor in charge of the building contacted us regarding a temporary heating and dehumidification hire arrangement which was needed to support the laying of wood flooring.

Before this process could take place, however, it was important to ensure that the temperature of the areas in which wooden panels were to be laid had been kept at 18°C or above for at least 48 hours. The client was also keen to ensure that relative humidity was maintained at around 40% and ensure that all concrete and surfaces were dry beforehand.

To guarantee this phase of development ran smoothly from start to finish, Andrews recommended the deployment of a single FH2000 indirect fired unit. This was accompanied by several lengths of ducting to help distribute significant volumes of warm air around the areas in which work was being done. Additionally, a number of FD40 Fast Dryer dehumidification units operated simultaneously and were deployed within the target applications to ensure that any moisture present in the air was extracted.

Once temperatures had been constantly above 18°C for the outlined period of time, the contractors in charge installed the wood flooring. By doing it this way, adequate precautions were taken to ensure that there was no sudden change in temperature which could later cause air humidity to rise and potentially cause the floor panels to expand further down the line.

Before beginning the project, the client made it very clear that curbing fuel costs would be preferred if possible - prompting us to set our heater up on recirculation mode. Our hired heating and drying equipment was required on site for a total of 12 weeks and was used on almost every room in the entire school - allowing all floor areas to be professionally laid without any issue at all.



**Extraction rate (max)** 75 litres/24hr  
**Nominal extraction duty** 75% RH @ 20°C 37 litres/24hr  
**Air flow (max)** 420 m³/h  
**Keep dry area (typical)** 814 m³  
**Dry out area (typical)** 407 m³  
**Power supply** 230/110 V 1 ph 50 Hz Run 5.7/11.9  
**Plug type** BS1363 230v BS4343 16 A 110v  
**Noise level (max)** 53 dBA @ 3 metres  
**Weight** 48 kg  
**Dimensions (L x W x H)** 510 x 491 x 920 mm  
**Control** Manual (humidistat option)  
**Average power consumption** 984 W/h



**ANDREWS**  
**DEHUMIDIFICATION**

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