

Case study 527

Dehumidifier hire solution preserves vulnerable steel consignment

When a multinational steel-making company began to encounter corrosion issues at one of their works in the UK, Andrews Dehumidification was contacted to ensure the problem was overcome quickly. The site in question stores over one hundred tons of steel at any one time, and this had become the subject of concern for our client due to unfavourable conditions within the storage facility.

Cold winter temperatures had led to condensation forming on surface interiors, with the level of humidity becoming an immediate threat to millions of pounds' worth of delicate metal. The manufacturer was therefore tasked with finding a way to retain goods at the location without jeopardising the integrity of the building.

At this stage, an Andrews Dehumidification hire expert visited the client's premises and devised an appropriate drying rental solution based on the application's size and specifications. This process led to the delivery of three KT6000 desiccant dehumidifiers, which were deliberately selected because of their aptitude for working in cold environments. The product also offers huge air flow capacities – imperative in this scenario – while operational costs were kept to a minimum.

Once installed, our units had an immediate impact by reducing relative humidity and therefore protecting the untreated steel. By acting quickly, we were able to guarantee that all materials were stored safely prior to distribution and that revenue streams were unaffected – the original objective of the project.



Extraction rate (max) 1,550 litres/24hr
Nominal extraction duty
at 60% RH @ 20°C 936 litres/24hr
Air flow (max) 6,000 m³/h
Power supply 415 V 3 ph +E 50 Hz Run 76.5 A
Plug type 125A BS4343 5 Pin
Generator size 50 kVA
Duct length (max) 48 metres
Noise level (max) 94 dBA @ 3 metre
Weight 1,400 kg
Dimensions (L x W x H) 2,770 x 1,630 x 2,120
Control Manual (humidistat option)
Average power consumption 32 kW/h
Duct diameters Wet out 600 mm
Dry out 300 mm



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