

Case study 530

Pharmaceutical company seeks specialist dehumidification hire

When an established pharmaceutical company in North Lincolnshire experienced issues with the air quality in one of their clean rooms, Andrews were contacted to provide a short-term dehumidifier rental solution.

Clean rooms are typically used to manufacture pharmaceutical products, so they must be sterile and uncontaminated. Another stipulation is that there is a positive pressure of air inside the room and a relative humidity below 30%RH - as excessive moisture would affect the manufacturing process. Our client's existing dehumidification unit failed to meet the desired relative humidity levels, hindering them from manufacturing the product.

Once the precise requirements of the project were established, using a psychrometric chart to determine how much drying duty would be required, we devised an independent dehumidification solution which provided the clean room with a relative humidity level of 25%RH.

Our KT2000 temporary dehumidifier was used in conjunction with the customer's air filtration system, drawing in ambient air and passing it through a two-stage filter system which was pumped into the room at a rate of 2,000m³/hr, thus creating a positive pressure to the required standard.

The customer was extremely impressed with the clean room dehumidifier hire, which allowed them to continue with their tablet production process whilst their air handling system was repaired.



Extraction rate (max) 450 litres/24hr
Nominal extraction duty at 75%
RH @ 20°C 300 litres/24hr
Power supply 415V 3ph 50Hz
Plug type BS4343 5 pin 32A
Noise level (max) 82.75 dBA @ 1 metre
Weight 225kg
Dimensions (LxWxH) mm 1,290 x 890 x 1,050
Control Manual (humidistat option)
Average power consumption 20 kW/h



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