

Case study 521

Drying solution keeps flowers saleable

At Andrews Dehumidification, we recognise the importance of protecting perishables and the costly implications of failing to do so. Agricultural produce is generally susceptible to damp environments, but we pride ourselves on moving quickly to prevent moisture causing damage to a harvest. Problems of this nature are most likely to arise in storage facilities, but our range of hired drying solutions can minimise the likelihood of this and keep your goods in the best possible condition.

This was recently demonstrated when an East Anglian flower farmer found it difficult to stockpile without wilting prior to distribution. Once picked, flowers are then placed in buckets of water and placed in a cold store before being sent to retailers. However, excessive moisture on the plants was condensing and subsequently dripping onto their petals. This was causing discolouring and deformation to large numbers of plants, leading to the buyer rejecting much of the yield.

With our client losing money via greatly reduced levels of output, something needed to be done quickly in order to salvage his reputation. We decided to install a KT2000 desiccant dehumidifier inside the cold store, with the intention of drying air before it passed through a chiller unit already on site. This response eliminated the condensation issue whilst also reducing relative humidity as was required.

The equipment we provided made an immediate difference and stopped flowers from becoming spoilt once the unit was commissioned. This solitary action meant all produce remained saleable from this point onwards which was the aim prior to our involvement with the project.



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

