Case study 506

Experimental Laboratory Require An Andrews Dehumidification Hire Tailored Solution

In Leicester a research laboratory was conducting an experiment with a newly developed data collecting machine. In order for the testing to work it was necessary to create a cold room, identical to the one of a walk in fridge. Once this uncommon room was created the testing could begin, immediately the researchers noticed that condensation was forming on the metal robot preventing accurate measurements. This was a problem because dry air and low temperature was required as soon as possible to resume the unique project.

Andrews Dehumidification Hire was contacted to provide the ideal tailored solution. Subsequently a site survey was essential to establish the perfect answer, then providing the appropriate units accordingly. The classic desiccant dehumidification solutions could not be used due to the room not having any openings which could be used to duct dry air in or moist air out. Thus we engineered a solution which had the dehumidifier placed in the cold room and the moisture from the expelled wet air was collected in a vessel specifically engineered for this purpose. Accordingly, we supplied a DS40 Desiccant Dehumidifier and an adapted vessel to collect the wet air which was interfering with their testing process.

The DS40 Desiccant Dehumidifier is best used where the work is being carried out at very low temperatures and very low relative humidity is required.
Not only did the researchers save money by not needing to modify their cold room, but the experiment was on schedule. Andrews Dehumidification Hire are experts at engineering

Power supply 100V 1 ph 50 Hz Run 19 A
Control Humidistat Option
Noise level (max) 66 dBA @ 1 metre
Plug type BS4343 100V 32 A
Weight 30 kg
Average power consumption 2.1 kW/hr
Dimension 450 x 455 x 470 mm
Generator size 3 kVA

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