

Calorex goes against the grain

A dehumidifier from Calorex is playing a key role in the careful storage of solid oak flooring at Northwood Forestry in West Sussex.

Northwood is one of the few remaining fully operational and privately owned sawmills in the South East of England and is renowned for supplying only the finest quality prime and character grade English and European oak.

It is imperative that the moisture level is kept low during storage, so that the timber becomes stable for the indoor environment where central heating is used. Dry wood can absorb moisture from the atmosphere, so the dehumidifier eliminates the problem by removing moisture from the air.

On the advice of Calorex's specialist sales team, a high capacity DH150BX dehumidifier was specified for the warehouse, ideal for commercial premises and industrial environments.

James Burnford of Northwood Forestry explains: "Once removed from the kiln, the oak is between nine and 10% humidity. During storage, it must not exceed 12%. The dehumidifier from Calorex has been successfully managing the level in the flooring warehouse since it was installed earlier in the year."

James adds: "The unit is simple to use – it's literally a case of plugging it in and switching it on. It is also powerful enough to keep the entire warehouse at a constant level of humidity wherever in the building it is situated."

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A Calorex dehumidifier offers an efficient and cost effective solution to maintaining perfect conditions.

The process of dehumidification involves moisture-laden air being drawn into a dehumidifier where the air passes across a refrigerated coil. The air is rapidly cooled below its dew point, condensing the water vapour and recovering its latent heat energy for re-use. The cooled air is then passed across the condenser where it is reheated and returned to the served area at a lower relative humidity.

Typically, for every unit of energy that a Calorex dehumidifier consumes, it will convert 2.5 times this amount to usable heat. The potential energy savings are huge compared to traditional heat and ventilation methods.

