

Look – No Ice!

The international business services group Hays PLC experienced ice formation at one of their cold storage facilities due to the constant need to access the cold store from the loading docks. This allowed the movement of warm, moist air into the dock area and the cold store itself. At the same time, cold air from the cold store was moving into the dock area.

As a result, water and ice created slippery conditions in the loading dock. Ice built up around the cold store entrances as well as the inside of the cold store, including the inlet side of the low temperature evaporators. This created the need for frequent defrosts and stretched the capacity of the refrigeration system. At times fog would form at floor level in the dock, reducing visibility and hindering operations. Snow and ice built up on the cold room ceiling, making it a risk to workers below.

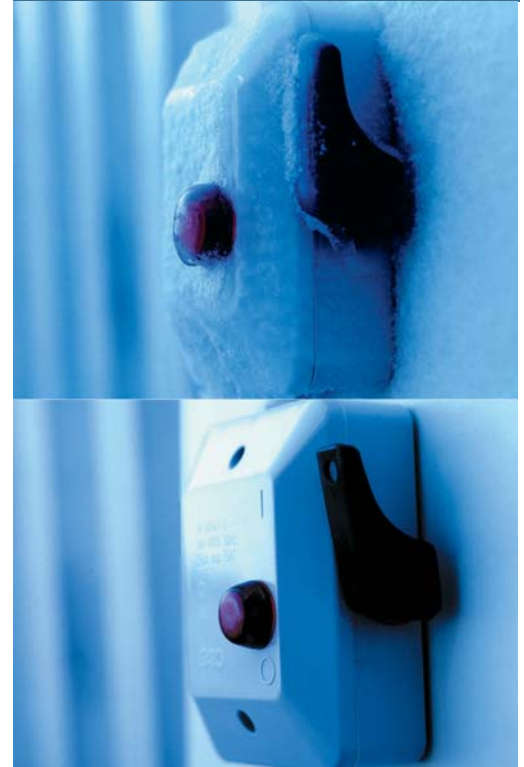
While all these effects were a matter of concern for Hays Distribution, maintaining the cooling capacity in the 100,000 m³ (3.5 million ft³) store potentially was the most costly: the company was considering purchasing a new cooling plant. In the end, the solution provided by Munters addressed all these concerns.

The dehumidification solution recommended by Munters aimed at the cause of the icing rather than just treating the symptoms. The benefits that Hays obtained from installation the system are considerable. Frost and ice at freezer entries have been eliminated. The dock area, now free from fog and slippery conditions, has been made safer. Ice build up on the evaporator coils has decreased so the number and duration of defrosts have been dramatically reduced. Product quality is maintained and

production capacity in terms of loading time has been increased. High maintenance costs to remove frost and ice have been reduced.



Case Study: Hays Distribution



IceDry® Facts:

- Reduces the formation of ice and frost
- Cuts down on time-consuming and costly defrost cycles
- Saves on energy bills and reduces maintenance
- Reduces the risk of damaged products
- Eliminates the risk of worker injuries