



IceDry[®] improves safety and operations at Coldstar

Coldstar, Denmark



Coldstar's 125,000m³ cold store in Vejle, Denmark, owned by Lineage Logistics, is used as transit and distribution storage for catering and supermarket industry customers all over Denmark.

There are thirty people employed at this advanced cold store, which meets all unbroken cold chain requirements. There were issues in the areas between the cold store and loading bays.

Trucks are being loaded and unloaded between thirty and forty times a day. Moisture-laden air from enters the handling room (3510m³), which divides the cold store from the loading docks. When this warmer, humid air meets the cold air from the handling room, (-22C), condensation is created, causing wet and slippery floors, and ice build-up on conveyer mirrors, fogging, and problems with photo sensor functionality. During summer these problems get even more serious as the water content in the air increases, causing even more condensation.

Case study

Improved operation and safety at Coldstar.

Advantages:

- Safe working
- Ice free floors
- Faster loading
- Clear visibility to read labelling
- Increased refrigeration efficiency
- Reduced energy consumption



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One Munters IceDry[®]3000 unit was installed in both ends of the handling room. Ducts lead the dry air to all six gates where it is fed into the docks when needed, and continuously fed into the handling room. This flexibility ensures optimised dehumidification system usage. This solution has been adapted perfectly to meet with Coldstars' procedures and requests, and is the biggest of its kind in Scandinavia.

Problems with ice formation, slippery floors and fogging are now in the past and Coldstar can confirm that employee work and safety conditions have been considerably improved and the loading and unloading of goods is now faster and safer.

Munters was asked to solve these issues for Coldstar, which they found unacceptable, especially since worker safety was at risk. These humidity-related problems created a serious threat to safety during truck loading. And a great deal of money was spent to minimize these problems, for example, sensor corrections, etc.



The Solution

Munters presented a tailor-made IceDry® solution that used dry air to reduce condensation to a minimum, which is the root of the problem and by doing so eliminated previous problems. The Coldstar solution is unique in its ability to instantly redirect the dry air to the required areas.

The IceDry® dehumidification system is designed to provide continuous dehumidification of the handling room and also supply dry air to one or more of the loading docks, on request. When a truck enters one of the six docks for loading/unloading, dry air is immediately supplied directly into the dock, ensuring that the air has a low relative humidity as it enters the handling room.

An award winner

Munters IceDry® system has proven so successful in over 600 cold stores across the world that it has won the prestigious 2006 European FoodTec Silver Award for innovation.

The award criteria was the successful implementation of innovative concepts in the Food Industry to improve processing, environmental conditions and safety. IceDry® saves energy and time, ensuring high product quality and minimal accident risk.

Would you like to find out if Munters has a solution for your company too? If so, please visit our website, www.munters.com

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