



INDUSTRIAL

# Beverage



Property Damage  
Restoration



Temporary  
Humidity Control



Property Damage  
Prevention



APPLICATION

## Overview

Condensation is a major threat in most beverage manufacturing facilities due to the unique environment. Chilled tanks and pipes, cold walls and large quantities of hot water utilised for sanitising surfaces, all provide the perfect conditions for the formation of condensation. The condensation can then drip onto the floor creating a hazard. Additionally, excessive moisture in the space can lead to corrosion and premature wear on production machinery. These conditions could result in costly facility shutdowns or worse, injuries due to slippery work surfaces.

Moisture (humidity) control within beverage plants is critical to preventing costly losses in production and the spoiling of the product. The ability to keep the line operating with out the threat of shut down due to excess moisture is critical. Munters is experienced in providing temporary dehumidification solutions for the needs of a variety of complex beverage processing plants. Whatever the situation, Munters has the solution to eliminate moisture problems.

Munters can provide temporary climate control solutions to deal with the most difficult moisture problems at a beverage manufacturing facility. Desiccant dehumidifiers utilising state-of-the-art technology provide the optimum conditions for product manufacturing, while ensuring that facility shut downs are a thing of the past.

Besides eliminating moisture related production issues, Munters temporary drying systems also reduce maintenance problems such as iced refrigeration coils, wet floors, mould growth and condensation. Additionally renting the equipment rather than purchasing will help reduce capital investment expenditures.



Controlling condensation on chilled tanks.



## PROCEDURE

In order to ensure that the equipment is tailored specifically to each beverage processing facility, the following information is required:

- Size of the room
- Details on the current air handling systems
- Moisture load from product
- Heat load from equipment
- Details on the room material
- Infiltration rate.

Only when this information is compiled and analysed can the suitable equipment be selected. Munters personnel then engineer the equipment for specific applications to meet the desired specifications and avoid contamination.

Munters technicians' service and check the equipment, ducting and ancillary items prior to delivery. It is vital that the dehumidifier is sanitised and the ducting is new to eliminate the threat of contamination. The equipment is then placed in a designated area, positioned close to a power supply and set up to maximise the safe operation of the unit.

Munters state-of-the-art desiccant dehumidification systems are utilised to deep dry the ambient air in the facility which ensures that moisture sensitive products being manufactured are processed in the optimum environment. Munters provides a turnkey solution with well engineered equipment, offering around the clock service that is unmatched in the industry.



Advanced Munters dehumidification systems create safe working conditions.

## BENEFITS

The Munters dry air system is the simplest, most precise way of achieving and controlling the humidity conditions required, including:

- Considerable energy cost savings, incorporating environmentally-friendly technology
- Improved hygiene conditions
- Reduced medical claims by eliminating slip hazards due to wet flooring
- Consistent production all year around with the elimination of delays due to high moisture levels
- Improved production increases of 15-20%
- Compliance with Good Manufacturing Practice (GMP) regulations
- Immediate response for any problems
- A rental program that allows the customer to only use the equipment when it is actually required.

## RESULTS

Munters experienced and highly trained staff can consult customers on the best solutions for their specific needs. By utilising Munters' state-of-the-art climate control equipment, conditions are closely controlled to maintain relative humidity, dew point and temperature throughout the facility. This technology ensures that the best solution is chosen to meet the project specifications while maximising efficiency and guaranteeing the highest possible results.



Munters provides solutions for the most difficult moisture problems.