

Food and Beverage Portfolio



At Polygon, we are dedicated to providing temporary climate solutions to a wide range of industries, including the food and beverage industry. Here are some examples of where we have supported our clients with their climate solutions.



Frozen Food Manufacturer – Spiral Freezer

Moisture was entering the spiral freezer through cracks, conveyor entrances and exits and also via doors opening and closing. This caused increased defrost cycles, which slowed down production. Dehumidifiers were used to reduce the defrost cycles by introducing the process outlet air over the fan coils. Additionally, the client installed measures to limit outside air infiltration.



Dairy Producer – Dry Storage

High relative humidity and moisture was affecting dry storage areas; which led to an increase in waste product. Polygon's dehumidifying equipment was used to control relative humidity in the warehouse that had previously been uncontrolled.



Poultry Packaging Plant

Due to negative plant and wash down water, excessive moisture had built up. As well as the plant facing steam and condensation issues due to the steam cleaning unit being placed adjacent to the freezer. A dehumidifier was used and now runs all year to alleviate the excessive moisture and condensation problems.



Frozen Food Processor

A frozen food processing company was experiencing condensation issues and possibly violating some FDA regulations. Polygon installed equipment which included HEPA filters, three 4500 cfm desiccant dehumidifiers and a 70 ton chiller. The equipment has been continuously rented since August 2013 to help control these condensation issues.



Sausage Plant

Condensation issues at the plant caused a very expensive recall of produce. Polygon were called upon to assist; our equipment was rented for a two year duration to help solve the problem. Equipment included a HC 4500, HC 1125, 65 ton chiller, cooling coil and HEPA filtration.



Global Manufacturing and Processing Company

Plant wide cooling and dehumidification was used to eliminate overhead condensation. This was achieved by treating make-up air to the Facility Air Handling equipment and supplemental dehumidification in high moisture processes.

To arrange your free engineering consultation, please email us_info@polygroup.com