



Niagara Blower Heat Transfer Solutions
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BREWERY DEHUMIDIFICATION

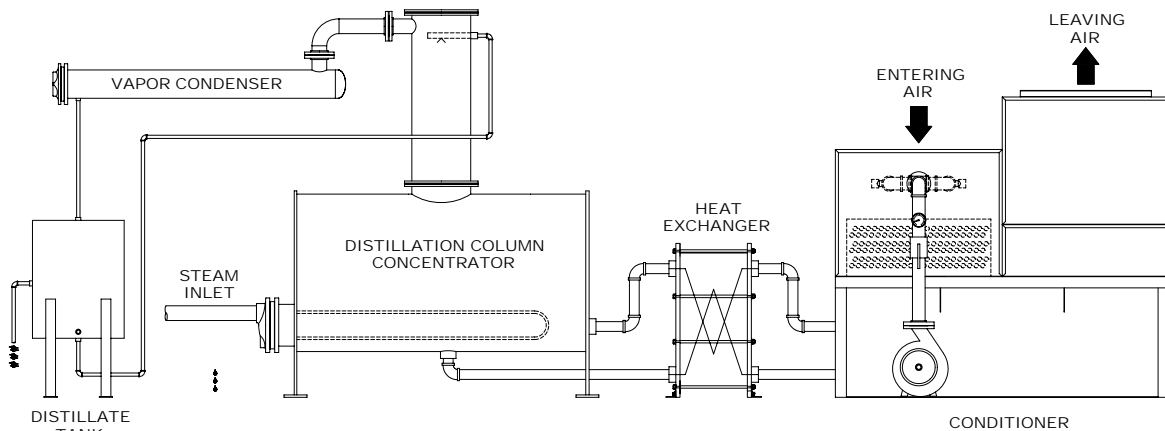
CUSTOMER: MAJOR INTERNATIONAL BREWERY

INSTALLATION LOCATION: NORTHEASTERN U.S.

APPLICATION: CELLAR DEHUMIDIFICATION

PROBLEM: Customer was using a lithium chloride (LiCl) based liquid desiccant system. Due to an equipment failure, LiCl severely damaged two large titanium plate & frame heat exchangers. This resulted in leakage of a lethal chemical called molybdate (found in LiCl) into the closed-loop secondary refrigerant system and prompted an abrupt and costly decontamination of the entire system due to potential product contamination.

SOLUTION: The existing LiCl system was converted to a Niagara glycol based dehumidification system. Many of the existing components were utilized from the original LiCl system. The new system is effectively removing more moisture than the LiCl system and will actually slow the corrosion process started by the LiCl.



TYPICAL NIAGARA "NO-FROST" SYSTEM

ADVANTAGES

- "No-Frost" is cleaner and safer than LiCl
- Less expensive, non-corrosive desiccant
- Reduced maintenance requirements
- Eliminates potential for product contamination
- Moisture removal ability is not compromised
- 94% reduction in desiccant usage (lower operating cost)
- Removes over 98% of airborne microorganisms
- Utilizes existing heat exchangers and conditioners (low conversion cost)

FOR MORE INFORMATION ABOUT THIS AS WELL AS OTHER "NO-FROST"® APPLICATIONS,
PLEASE CONTACT NIAGARA FACTORY OFFICES IN BUFFALO, NY.