CASE STUDY: WATER TREATMENT PLANT – GAC FACILITY DEWPOINT CONTROL

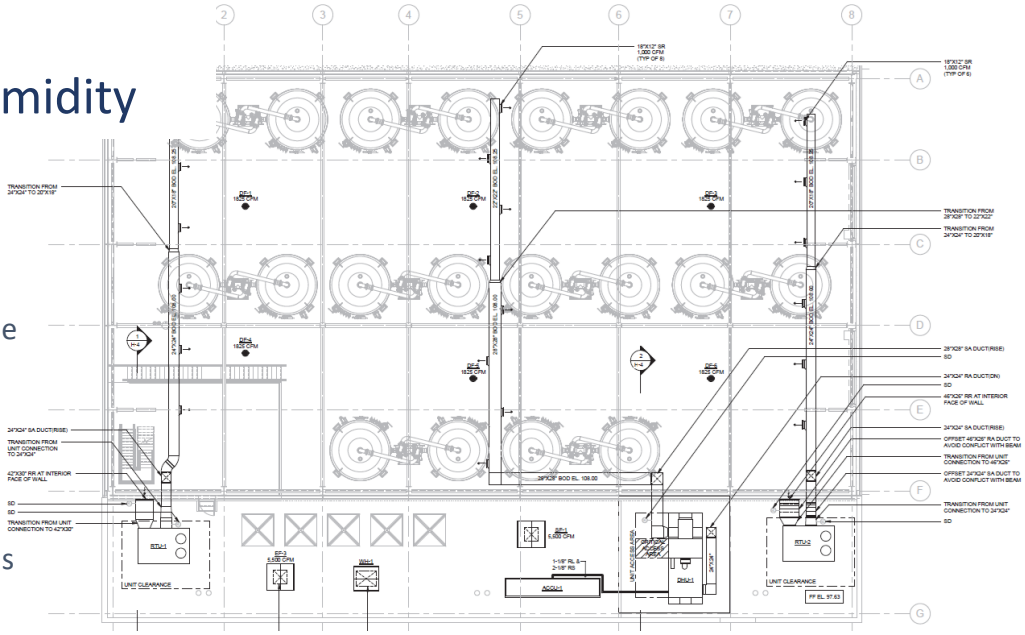
Condensation Control for GAC Facility

Hygroscopic products attract and retain moisture. From transporting of these materials to finished production and all stops in-between, any moisture problems can become costly.

Industry: Water & Wastewater | **Application:** Condensation Control | **End User:** Water Utility

The Challenge: Uncontrolled Humidity

Condensation occurs when warm, moist air meets a cold surface. In a water treatment plant, the same occurs, with the water in the pipes being cooler than the surrounding air, and thus causing condensation to form. This **condensation causes corrosion of pipes** and electronic equipment as well as **mold growth** and faults caused by condensation on UV scanners.



The Solution:

Provide a **Munters desiccant dehumidification system** designed to deliver roughly 2-3 air changes per hour, maintaining a dewpoint lower than the coldest tank or pipe surface. By lowering the relative humidity to a level with a lower dewpoint, the condensation stops, preventing rust and other moisture-related issues. Here are a few of the many advantages of desiccant DH for Water Treatment Plants:

- ✓ Prevent condensation
- ✓ Corrosion prevention
- ✓ No mold and mildew growth
- ✓ Reduced maintenance costs
- ✓ Improved hygienic environment
- ✓ More comfortable with a greatly reduced odor.
- ✓ Energy savings through reduced ventilation
- ✓ Consumes less energy
- ✓ A greatly reduced attack from sulphuric acid
- ✓ Electrical equipment (cables, contacts) are protected
- ✓ Makes painting in summer possible