

CASE STUDY:

CLIMATE CONTROL FOR PAINT PROTECTION - DRYING AND HEATING TANK PROJECT IN WISCONSIN

Location: Wisconsin **Industry:** Industrial Painting

Equipment: Rental Electric Heaters – Two - 60kW Heaters
Desiccant Dehumidifiers - Two - 5,000cfm units
*Rental generators also on site

Wisconsin –An Industrial Painting company was entering the first phase of painting the interior of tank and asked for IDS to control the climate. The paint project involved a large 200 plus foot diameter tank with a floating ceiling. The interior of the tank required blasting the surface and preparing the steel for application of industrial paint in phase 2.

Controlling Temperature & Humidity - With this project taking place during fall in the Midwest, weather conditions were completely inconsistent. On any given day during this time of year the weather can fluctuate between near freezing temperatures overnight and reach 70 degrees other days. With this unpredictability, the painting contractor didn't want to risk the project to potential flash rusting or damaging exposed steel. IDS was tasked with controlling the interior conditions during the surface preparation phase.



Temporary Installation and Delivery - In order to both maintain steel temperatures and help prevent flash rusting, both heating and dehumidifiers were brought to the tank project. Two (2) 60kW in-line heaters were paired with a 5000cfm dehumidifier per heater, working together to maintain a consistent temperature and dew point inside the tank.

Protecting the Blast and Holding Conditions - While the industrial painters blasted and cleaned the tank's interior surface, the steel tank was free of potential damage with a steady flow of warm, dry air. During this phase, a constant, steady temperature and humidity is critical, especially when temperatures and humidity can rise or fall overnight and throughout the day.

Rental Equipment Saves - Maintaining a constant dew point and temperature during this period of surface preparation is essentially an insurance policy for industrial painting projects to prevent rusting and damage to the steel. By using climate control and maintaining a steady environment, industrial painters can work without fear of rusting, paint failures or delays, regardless of the outside weather. This phase of the project required rental heating and dehumidifiers on site for 6 weeks.