

# CASE HISTORY 2025

## JOB: First Processing Condensation

### OVERVIEW

Each morning, condensation buildup over the bird chiller and in the evisceration area of the plant delayed the startup of this 240,000 bird pre day plant on the eastern shore of Virginia.

### CHALLENGES

- Condensation was forming on overhead pipes and ceilings, requiring daily cleanup after sanitation and delaying production by an average of 1.5 hours each day.
- Three employees per shift were dedicated to mopping the area and hanging plastic.
- Previous attempts to solve the problem like fans and additional refrigeration were not only ineffective but actually made things worse at times and disrupted the clean to dirty airflow balance.

### RESULTS & IMPACT

Smart Family of Cooling Products conducted an airflow test and balance to evaluate the plant's existing conditions and designed a 30,000 CFM hybrid DrySmart Dehumidifier™ system to control the condensation. The system included Smart Family's energy recovery technology, which reduced energy use by 55% compared to a conventional desiccant system. The condensation was eliminated. The plant no longer needed to hang plastic or assign workers to manually dry ceilings and production was no longer delayed.

#### **55% Energy Savings**

Compared to a conventional desiccant system.

#### **\$350,000 Saved Yearly**

Reduced labor hours and freed staff to focus on production.



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