

CASE STUDY WINDOW MANUFACTURER



JOHNSON PROVIDES A COST-EFFECTIVE, CLEANER, AND COOLER FACILITY SOLUTION

APPLICATION:
WINDOW MANUFACTURER

MARKET:
FARGO, ND

SYSTEM STYLE AND QUANTITY:
Seven Cooling, Ventilation, and Filtration Systems

DESIGN

- A large windows manufacturer did not have air conditioning in their plant, only heat and humidification to prevent the wood from shrinking.
- The customer wanted to add cooling to the space to benefit their employees, machine operation, product storage, and process.
- Their process caused a lot of airborne particulate throughout the space.

SOLUTION

- Johnson's solution provided 7 cooling, ventilation, and filtration systems.
- These systems provided the same amount of conditioned air as 42 rooftop units at a much lower system cost.
- The approach was a non-invasive way to add cooling to the space and provided substantial installation savings when compared to rooftop units.
- Removed the need for multiple utility connections, roof curbs, large crane equipment, rooftop penetrations, ductwork, and additional rooftop support.

RESULTS

- Employees are more productive and happier with the consistent temperature of 72 degrees in the plant and the clean environment.
- The customer is pleased with the low noise level of the Johnson Air-Rotation HVAC system and its efficiency.
- The system provided utility saving, compared to the 42 rooftop units proposed, due to the lower horsepower fans and the reduction in overall equipment.
- The Indoor Air Quality improved by removing airborne dust and particulate that is generated by their process. These contaminants created a cloud which made it impossible to see the other side of the plant. This cloud was eliminated with the Johnson-Air Rotation HVAC Systems.
- The systems have destratified the space, improving efficiency of the existing unit heaters as well.



Manufactured
in the USA



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