

CASE STUDY DISTRIBUTION CENTER



JOHNSON
AIR-ROTATION® HVAC SYSTEMS



JOHNSON AIR-ROTATION HVAC SYSTEMS SAVES THE CUSTOMER BIG BY CONSOLIDATING THEIR HEATING AND COOLING FOR THEIR MEZZANINE LEVELS

APPLICATION:

The Customer built a brand new manufacturing and warehouse facility in the Midwestern United States housing a blend of offices, manufacturing, and distribution operations.

MARKET:

MIDWESTERN UNITED STATES

BUILDING SIZE:

400,000 SQ. FT.

SYSTEM STYLE AND QUANTITY:

Four Indoor Heating and Cooling Systems

DESIGN AND BUILDING COMPLICATIONS

As part of a more than \$200M expansion the customer needed a cost effective, efficient and maintainable HVAC solution for their new state-of-the-art distribution center. Originally slated for rooftops, the design team quickly saw issues with the distribution ductwork needed to serve the multi-level mezzanine over the shipping area. There were also concerns about the stratification of the elevated racking for the more than 35' tall distribution center. Additionally, the acoustics and temperature consistency were paramount to the customer, as they wanted to ensure a comfortable and quiet work environment for their employees.

Johnson Air-Rotation co-authored a robust solution to serve the more than 400,000 sq. ft space with only four Air-Rotation Systems. An innovative, multi-level discharge plenum was utilized to serve the mezzanine while also destratifying the warehouse space. Additionally, Johnson Premium Airfoil Props were employed to provide substantial efficiencies while also maintaining low sound levels without any attenuation.



Manufactured
in the USA



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