

CASE STUDY

DISTRIBUTION CENTER



JOHNSON
AIR-ROTATION® HVAC SYSTEMS

JOHNSON AIR-ROTATION® HVAC SYSTEMS EVENLY CONDITIONS NEARLY 1 MILLION SQ. FT. OF DISTRIBUTION SPACE

APPLICATION:..... Picking and Distribution Center with
Multi-Level Mezzanines

LOCATION:..... Philadelphia, PA

BUILDING SQUARE FOOTAGE:..... 700,000

SYSTEM STYLE & QUANTITY:..... 8 Johnson Air-Rotation Heating
and Cooling Systems

DESIGN

- **Mezzanines** – Large distribution center outside of Philadelphia with a three level, solid floor pick module area in the middle of the space that required even conditioning and airflow for the workers, products and conveyor systems.
- **Flexibility** – The HVAC design needed to be flexible for future plans of expansion.
- **Noise** – Because of the planned employee computer stations near the proposed HVAC equipment, the equipment had to be extremely quiet.

SOLUTION

- **Mezzanines** – Johnson’s engineering team designed a solution that conditioned the 700,000 square foot pick module distribution center. The ARU solution provided conditioning and airflow above and below the mezzanine.
- **Flexibility** – The Johnson System provided the flexibility to fit into the customer’s current layout and set-up while allowing for future expansion as the equipment could be relocated.
- **Noise** – Johnson included proprietary high efficiency, low noise fans along with its premium sound construction (double-wall construction, perforated liner, 2” sound insulation) to reduce noise. Additionally, the systems were built with custom burner boxes to attenuate the burner noise as well as a supply and return air sound attenuator. With these design features each Johnson Air-Rotation System operated at the low 60’s dBA which the customer was ecstatic with.



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Johnson Air-Rotation® HVAC
Systems are Manufactured
in the USA



JOHNSON
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