JOHNSON AIR-ROTATION® SYSTEMS Johnson Air-Rotation Cooling Systems

Have you considered using Johnson Air-Rotation on your next Cooling project?



- Less Cost
- Low Fan Horsepower
- Single Point Utility Connections
- Less equipment
- No ductwork
- More efficient

The Johnson Air-Rotation Cooling System provides Cool Savings

Cooling Options – Direct Expansion, Chilled Water, Evaporative, Ammonia

Capacities up to 450 Tons in a single Johnson Air-Rotation Cooling System.

Johnson Air-Rotation's assembly includes turning vanes as well as horizontal and vertical louvers to maximize the area of influence for each cooling system. In addition, Johnson Systems include insulated cabinets and a stainless steel triple slope drain pan to ensure condensation doesn't sit in the base of the system.





Johnson Air-Rotation's Proprietary High Efficiency Fans provide:

- Efficiency
- Adjustability
- Low noise

Additional features include:

- In-house piping capabilities
- In-house full controls packages
- Economizer Dampers and Controls
- High Efficiency Filtration
- Bacterial Control
- Maintains +- 2 degrees throughout the space.

Johnson Air-Rotation Cooling Systems Case Studies



CASE STUDY 1

Customer: Biomedical Manufacturing Facility *Location:* Florida

Building Square Feet: 190,000

A major Biomedical Manufacturing Company needed a new HVAC system. Requirements for their new system included; flexibility to move the equipment with building expansion, removal of oil mist in the air from their process, and even temperatures throughout the space.

Johnson Air-Rotation Systems were installed to provide extremely consistent temperatures throughout the facility. These **ductless systems** are **easily repositioned** throughout a space which offered the flexibility the customer needed to accommodate future manufacturing changes. Oil mist filters were installed on the Air Rotation Units to remove all of the oil from the airstream to improve indoor air quality. And, lastly, Johnson **guaranteed a 1-2 degree variance** throughout the space to ensure employee comfort.





Case Study 2

Customer: Denver Broncos Location: Denver, CO Building Square Feet: 90,000

The Denver Broncos built a new state of the art practice facility in 2014. The new practice facility required a heating and cooling system that was extremely quiet. The team's coaching staff wanted to ensure they would be heard during practice. The team was also concerned with ensuring the HVAC system was non-obtrusive in the practice space.

Two Johnson Air-Rotation Systems were installed to heat and cool the entire practice facility without any ductwork. The Johnson Air-Rotation Systems were **mounted on the outside of the facility**, and the architect designed a cabinet for each one that became a design feature for the overall building. To reduce the already low acoustic signature of the Johnson Air-Rotation Systems, the units were manufactured with double-wall construction / acoustic insulation / & perforated liner. The Johnson Air Rotation System offered an efficient and virtually undetectable mechanical system to provide even heating and cooling with significant cost savings.



Case Study 3

Customer: Aircraft Manufacturing Company *Location:* Amarillo, TX *Building Square Feet:* 250,000

An Aircraft Manufacturing Company was building a new facility in Texas. Originally, the plans called for a central plant and large air handling equipment on the roof. This solution was deemed far too expensive, and the mechanical contractors defaulted to 42 rooftop units as an alternative. But, they soon realized that significant structural reinforcements would be needed to handle the equipment. An efficient system was needed that would alleviate the design challenges as well as bring costs back in line with the original budgets.

The Johnson engineering team worked with the architect and general contractor to design a solution. This grade-mounted approach greatly simplified the entire solution, lowering costs on many fronts - **no additional structure needed, reducing # of building penetrations, less equipment, and fewer / smaller utility connections**. With these savings, the customer was able to afford a central chilled water plant and was left with an extremely robust, efficient, and easily maintainable system.



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