# CASE STUDY
## AIRCRAFT HANGAR

JOHNSON
AIR-ROTATION® HVAC SYSTEMS

# JOHNSON AIR-ROTATION HVAC SYSTEMS DESIGNS A CANTILEVERED SUPPORTED SYSTEM FOR AMERICAN AIRLINES

**Application:**
A major US airline needed to heat an existing airplane hangar at a national airport. The hangar is where the airline completes maintenance on their aircraft.

**Market:**
Virginia

**Building Size:**
24,000 sq. ft.

**System Style and Quantity:**
One Indoor Heating System

## DESIGN AND BUILDING COMPLICATIONS

NFPA Standard required the system to be built at least ten feet above the floor of the facility. The facility was not heated prior to adding the system inside, and when the airline took over the space they wanted to make sure the space had heating for the maintenance crew.

Johnson Air-Rotation HVAC Systems designed one Air-Rotation system to heat the 24,000 square foot space where multiple aircraft would be stored. The system was designed to be mounted above a double-wide man door in order to meet the ten foot safety NFPA requirement. The system is located on top of a cantilever platform, which extends out above the door.

For heating, the system uses a steam coil rather than natural gas, so there is no combustion issues with the fuel of the aircraft in the space. The controls of the unit were factory designed and calibrated to be easily integrated into the existing Building Automation System.

Manufactured in the USA

(800) 325-1303
11880 Dorsett Road,
St. Louis, MO 63043
JohnsonAirRotation.com