

Johnson Air Rotation® Systems

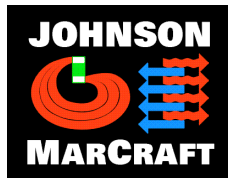
Johnson Air Rotation® Heating Unit Features

Standard Features:

- Heating capacities up to 7,000,000 BTUH
- Air volumes up to 200,000 CFM
- Heavy gauge, painted galvanized structural steel frame construction
- Stainless steel indirect-fired heat exchanger – 83% combustion efficiency
- 100% system efficiency
- Insulated fan and heater section
- Wired and piped at factory (except main regulator and main gas valve)
- High temperature limit switch; heat on/off switch
- Flame failure alarm horn (gas and oil units only)
- Control circuit and power fusing; UV flame detection
- Low fire start; occupied thermostat
- Rear fan failure light (double fan units only)
- Single-point power hook-up
- Non-fused motor disconnect switch; motor starter and overload protection
- Key lock power and control panels
- Long lasting paint finish; hinged access door
- UL listed; 1 year parts warranty
- Factory-tested for sound and start-up

Available Optional Features:

- Outdoor construction
- Double wall cabinet construction
- Direct expansion or chilled water cooling coils with stainless steel drain pan
- Heating also available with steam, hot water or electric coils
- Filters: Duralast, aluminum mesh, pleated or oil mist filters
- Evaporative cooling systems
- 24-hour, 7-day night setback clock
- Sound reduction package
- Seismic certifications
- Customized condensation control package
- Ultra-violet light for bacterial elimination
- Make-up air assemblies, make-up air on/off switch
- Make-up air indicator light
- Make-up air damper potentiometer; motorized inlet dampers
- Unoccupied thermostat
- Smoke detectors or tie-in with other fire protection system
- FM or IRI manifolds
- Heat outlet extensions
- Access platforms
- UL listed flue system
- Chillers
- Condensing units
- Field startup supervision by factory technician
- Rigging and installing supervision
- Extended warranty



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Johnson Air Rotation® Heating Unit Benefits

1. Operating and System Efficiency

- Lower temperature rise between inside roof and outdoor temperatures means less heat escapes from the building thus reducing fuel consumption
- Utilizes heat generated in the building from lights, machinery, people and other sources of heat gain in the space, thus reducing the amount of fuel required to condition the space
- Neutral or positive pressure system – Maintains the conditioned air in the space
- Fuel consumption is drastically reduced by continuous heating of warmer room air versus much colder outside air
- High-efficiency fans utilize low motor-horsepower
- Most efficient system in industry: uses a fraction of the fuel and electricity of competitive equipment.
- Maintenance of the Johnson Air Rotation® System, done at floor level, is easy and inexpensive compared to the high cost of maintaining roof-top equipment during hot summers or cold winters.

2. Controlled and Uniform Temperatures

- Provides even temperatures in space, typically +/- 1 degree
- Eliminates air stratification and associated condensation
- Eliminates drafts and cold spots in the space
- Available with condensation control package
- Available with humidifiers
- Tightly controlled temperatures and humidity levels prevent product damage

3. Long Equipment Life

- Heavy duty construction
- Easy to maintain
- Side access door and walkway plank for easy maintenance of heat exchanger coils, fans and motors
- Filters at floor level are easy to maintain and replace
- Tube access cover doors to service heat exchanger tubes
- Long life heat exchanger
- 30+ year projected unit life

4. Low Installation Cost

- Fewer units per area – One unit can condition up to 200,000 ft²
- Installation requires small lifting equipment at floor level
- No duct work required
- Only 1 gas piping run per unit
- Single point electrical connection
- No bracing required for equipment
- Units are “portable” – If you move, the unit can be used in your new facility
- 3 men, _ day installation
- No roof penetrations
- No structural roof supports

5. Engineering Support and Customer Service

- Our application engineers will design the optimum system for your building
- Advise on best way to condition the space
- We determine the amount of heating, cooling and air volume required in the space
- We determine the quantity of units and best unit locations
- Start-up service technicians ensure perfect operation
- 83 years of applications experience
- Billions of square feet of experience with warehouses, distribution, sports and manufacturing facilities

6. Safety

- UL[®]-listed and approved.
- Manufactured and tested in a UL[®] Test Data Program.
- Products of combustion are not discharged into the heated space.