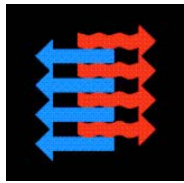


Johnson MarCraft Total Solution™

Case Study: General Motors
Memphis, TN



BUILDING DESCRIPTION:

- **SIZE:** 650,000 square feet
- **LOCATION:** Memphis, TN
- **TYPE:** Distribution Center
- **ACTIVITY:** Automotive Distribution Center

CHALLENGE:

- To air condition this facility with roof top units, it would require 105 roof-top units.
- To install these 105 roof-top units the facility would have to be shut down for several days, costing substantial lost revenues, and cancelling the existing roof warranty.
- The ongoing costs to maintain 105 roof top units would be significant.

JOHNSON TOTAL SOLUTION:

- Johnson installed 7 indoor heating and/or cooling units to provide the same amount of air conditioning that the 105 roof top units would have provided.
- Each unit is capable of 90,000 CFM and 200 Tons of cooling, with (2) 15 HP fan motors.
- 210 total system motor horse power for 7 Johnson Air Rotation Units vs. a total of 1500 HP for 105 roof top units.

RESULT:

- 7 Johnson Air Rotation® units were installed instead of 105 roof top units.
- General Motors saved hundreds of thousands of dollars in equipment and installation costs.
- General Motors continues to save every time they receive their electric bill!



ABOUT THE JOHNSON MARCRAFT TOTAL SOLUTION™

Our application engineers will

- Design the optimum system for your building
- Advise on the best way to condition the building
- Determine the amount of heating, cooling and air volume required in the space
- Determine the quantity of units and best unit locations
- Arrange for start-up with a factory-trained start-up technician

(Pictured above) One of 7 Johnson Air Rotation® HVAC units for General Motors. A quantity of 7-200 ton Johnson HVAC units evenly and efficiently heat and cool this 650,000 sq. ft. facility.

With Johnson's unique ability to maximize tonnage in fewer units that evenly circulate air in a building, installation and operating costs for this 650,000 sq. ft. distribution center were lowered significantly.