

Case Study Report



Project Identification

Customer: Johnson and Johnson
Location: Shepherdsville, Kentucky

Design Specifications

Facility Warehouse 300,000' x 37' High
Winter Operation 70° – 0° Summer Operation – 70° - 95°



Project Challenge:

Johnson and Johnson built a facility to store up to a billion dollars of pharmaceutical products that have rigorous temperature requirements generated and upheld by the FDA. The FDA requires no more than a +/- 2° F temperature difference anywhere in the facility; redundancy is also required as products are rendered unusable if temperatures exceed 78°.

Equipment Solution:

Air Energy Systems designed a system of (17) Rack Units distributing heated and cooled air from (17) 25 ton combination Roof Top Units. Although the heat load was achieved with (12) 25 ton Units, the redundancy was required per Johnson and Johnson. To ensure that the temperature continually remained within the FDA guidelines, 150 temperature sensors were installed throughout of the facility.



Results of Rack System:

Johnson and Johnson has met FDA temperature regulations since the system was installed in 2006. Not only is Johnson and Johnson meeting federal requirements, they also experienced annual savings totaling over **\$100,000**.



Johnson and Johnson saved over **\$800,000** in capital costs

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