

# CASE STUDY GYMNASIUM



## SCHOOL DISTRICT STAYS ON BUDGET BY INSTALLING JOHNSON AIR-ROTATION HVAC SYSTEM

**APPLICATION:**  
HIGH SCHOOL GYMNASIUM

**MARKET:**  
TEXAS

**SYSTEM STYLE AND QUANTITY:**  
One Outdoor Cooling System

### DESIGN

- The High School was over budget by \$50,000 with their original proposal of hanging four 10 ton units, one in each corner of the gym.
- Despite the warm temperatures, the school district believed the project would be abandoned due to cost and the proven inefficiency of the system previously installed.
- Damage had also been done to the court due to condensate leakage from the previous system.

### SOLUTION

- The school district learned about Johnson Air-Rotation HVAC system through its local manufacturer's representative.
- The estimate for installation of the Johnson system amazed the school district; reducing cost by \$50,000 and allowing them to not only air-condition the gym, but put the savings toward laying artificial turf on their football field.

### EXCEEDING EXPECTATIONS

In addition to saving money, the Johnson Air-Rotation System also allowed the customer to continue holding basketball camps and games, which would've been suspended during the installation of the split units. The principal also remarked how quiet the Johnson System was, an acoustical analysis was recently completed and the Johnson Air-Rotation Systems registered 65 db in the space. A 65 db sound pressure at 3 feet is equal to human speech at conversation levels. The outdoor mounted Johnson Air-Rotation System also worked perfectly despite the fact the gym had bleachers on both sides of the basketball court. Another major benefit of the Johnson System was the ability to bring in cold, fresh air during the winter to cool the hot gym down during games and large events. After installation a surprised School Principal, said, "You look at the little opening and you think, that's not going to be able to cool this gym down, but boy does it work."



Manufactured  
in the USA



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



*"The Johnson Air-Rotation System was the best money we've spent. We've been able to maintain our gym temperature at 72 degrees with over 600 people inside during graduation in the summer. No previous system allowed us to do this, I would highly recommend the Johnson Air-Rotation System."*

- School Principal