

# CASE STUDY

## GYMNASIUM



**JOHNSON**  
AIR-ROTATION® HVAC SYSTEMS

**“THE BEST MONEY WE’VE SPENT”  
-HIGH SCHOOL PRINCIPAL**

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

**CUSTOMER:**..... High School  
**LOCATION:**..... Texas  
**BUILDING SQUARE FOOTAGE:**..... 10,000  
**PROJECT SPECIFICATIONS:**..... COOLING ONLY, WITH PROVISIONS MADE FOR HEAT IN THE FUTURE.  
**SYSTEM STYLE & QUANTITY:**..... 1 outdoor mounted, cooling-only 40 ton Johnson Air-Rotation system with the ability to cool the 10,000 square foot gymnasium, replacing the original proposal of 4 x 10 ton split units.

### DESIGN

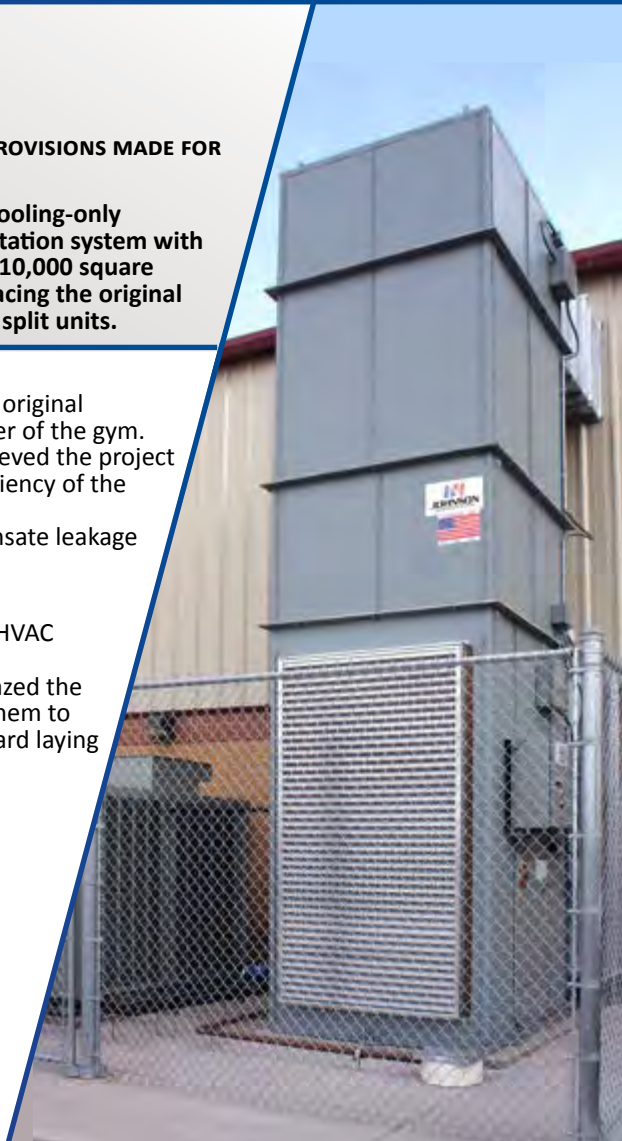
- The High School was over budget by \$50,000 with their original proposal of hanging four 10 ton units, one in each corner of the gym.
- Despite the warm temperatures, the school district believed the project would be abandoned due to cost and the proven inefficiency of the system previously installed.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

### RESULTS

- The school Principal said,  
*“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.”*



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

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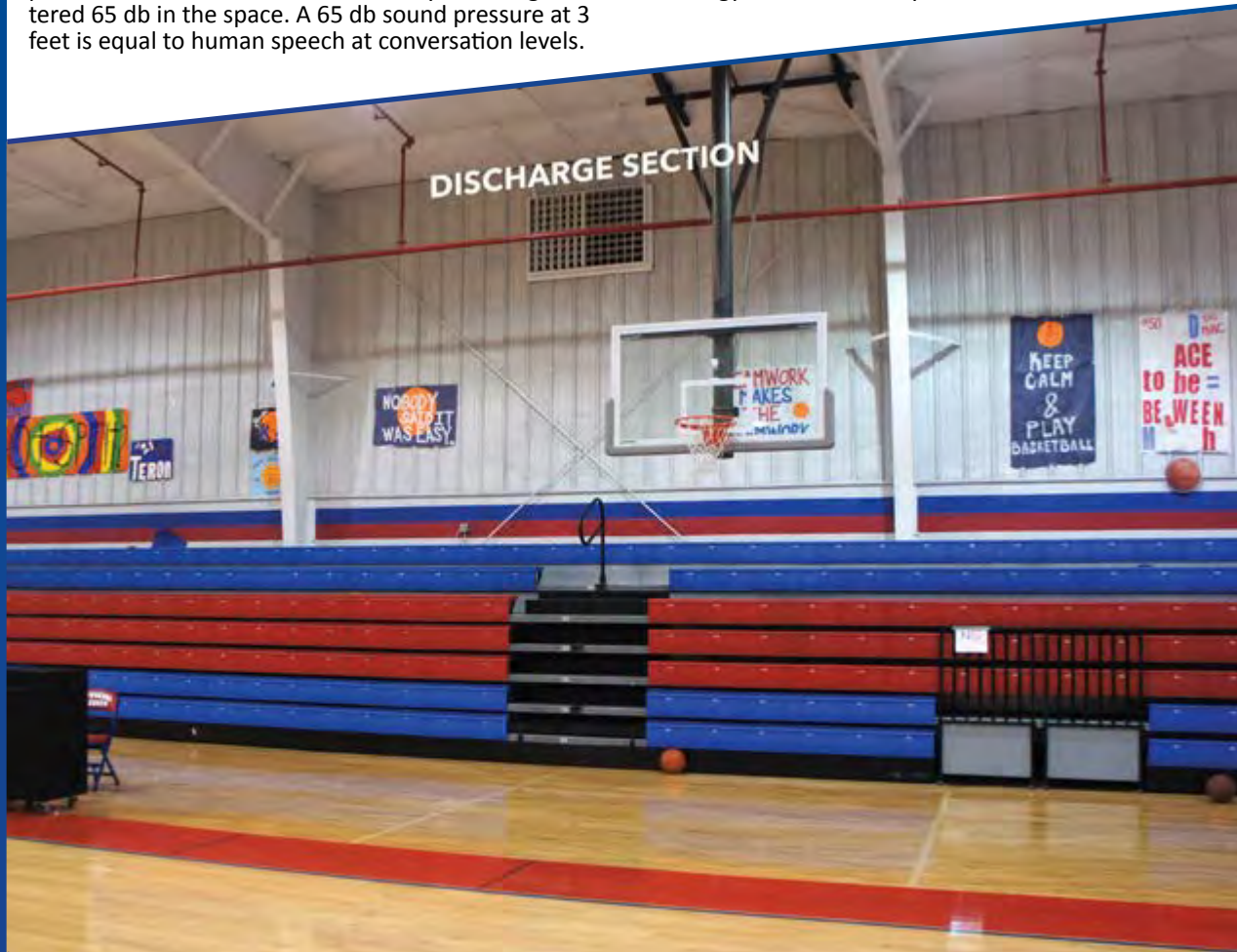
## JOHNSON AIR-ROTATION HVAC SYSTEM EXCEEDS EXPECTATIONS WHILE KEEPING PROJECT ON BUDGET

The Johnson Air-Rotation System saved the High School from paying additional equipment costs which would've added up to \$50,000. In addition to saving money, the Johnson Air-Rotation System also allowed Claude 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 Scott Wilkerson, the High 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."



*As you can see the Johnson Air-Rotation System does not take up any of the valuable gym space. The discharge section blends into the surrounding and the Johnson system does not require duct work, saving on installation costs. In addition, the gym bleachers did not need to be modified or removed during installation and will not affect the operation of the Johnson Air-Rotation System.*

## JOHNSON AIR-ROTATION CAPABILITIES

- The only UL® Listed Air-Rotation system
- Reduces Cost on equipment, Labor, operation
- Cooling Throw – 275'
- Heating Throw – 325'
- Cooling Source (Chilled Water, Glycol, DX 410A)
- 150,000 square Feet with a single unit
- Up to 6,250 MBh per heating unit
- Up to 450 Tons per Cooling unit
- Up to 170,000 CFM per unit
- Heating Source (Nat Gas, Propane, Electric, Hot Water, Steam)



Named one of the Fastest Growing Companies by Inc. Magazine



Johnson Air-Rotation® HVAC Systems are Manufactured in the USA



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