

# CASE STUDY FOOTBALL PRACTICE FACILITY



## AIR-ROTATION SYSTEM PROVIDES GIANT SAVINGS FOR FOOTBALL TEAM

### APPLICATION:

84,000 SQ. FT. FOOTBALL PRACTICE FACILITY

### MARKET:

NEW JERSEY

### SYSTEM STYLE AND QUANTITY:

One Outdoor Ground-Mounted System

### DESIGN

- With a building peak of 100', the consulting engineer was very concerned with major stratification issues in the space.
- The customer did not want a noisy HVAC System.
- The team did not want to use ductwork that would interfere with kicking and punting drills or any equipment that would take up floor space or pose a danger on the sideline.
- With over 6,000,000 cubic feet of space to be heated, cooled and ventilated, adequate temperature distribution was a major concern.

### SOLUTION

- Installed one outdoor, ground-mounted system that ensured that no floor space would be used as well as eliminated the need for ductwork, solving two major issues.
- The customer also avoided adding costly structural support that would've been necessary, had they selected rooftop units.
- The Johnson Air-Rotation System used high-static, low-noise construction, premium prop fans, plus return and supply air sound attenuation in order to meet the engineer's sound specifications.
- Johnson's engineering team also designed the system to comply with the latest IBC code on wind, snow and seismic requirements.

### RESULTS

- The Johnson Air-Rotation System succeeded in maintaining the sound requirement.
- The football team also saved \$600,000 in construction savings as a result of the lighter roof construction and the elimination of duct work.
- The Johnson Air-Rotation System is saving the customer over 50% of budgeted fuel costs and over 40% of budgeted electrical costs.



Manufactured  
in the USA



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