

# AMBIRAD

HEATING AND VENTILATION SOLUTIONS

## Worcester Warriors Rugby Club

Case Study

**AMBIRAD**   **AIRBLOC**   **NORDAIRNICHE**   **BENSON**



 **NORTEK**<sup>™</sup>  
GLOBAL HVAC



# Worcester Warriors Rugby Club

## Case Study

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"This redevelopment will give us a rugby facility which is amongst the best in English club rugby, something which will enable current and future players and back room staff to perform in a top-class working environment. " Says chief executive Jim O'Toole told the club website. "This continues to be a very exciting time for everyone involved with Worcester Warriors as we look to take this Club forward both on and off the pitch".



Jim O'Toole  
Chief Executive  
Worcester Warriors Rugby Club

## Case Study: Worcester Warriors Rugby Club

Worcester Warriors Rugby Club dates back to 1871 in which they made their first outing against the Worcester Artillery at Somerset Place. In recent years the club has managed to finally be in a strong position to reach its long term ambitions of successfully competing against European Rugby's elite.

The Warriors have taken one of their most significant steps to date in order to establish themselves as a successful Aviva Premiership Club with the announcement that their indoor training facilities will undergo a major refurbishment ahead of the new season..

Building work will begin immediately at the West Stand facilities used by the playing squad and coaching staff; the improved facilities will be amongst the best in the country to ensure players have a first class base during the week and on matchdays.

**"The redevelopment will give us a rugby facility which is amongst the best in English club rugby"** says chief executive Jim O'Toole.

The club will be installing a number of new facilities, including an elite player dressing room for matchdays, whilst having a separate dressing room for in the week.

The indoor training centre will be upgraded to a plyometric 4G surface and will include a running track and sandpit for players undergoing rehabilitation work. Players will also see the unveiling of brand new cryotherapy, ice bath, sauna and resistance pool facilities.



The Nor-Ray-Vac radiant heating systems were ideal for the redevelopment project of the indoor training centre as one of the major benefits to radiant heat is to be able to create an environment without stuffiness, where occupants can exercise vigorously in complete comfort. The Nor-Ray-Vac system designed and implemented by contractors

Peak Air Conditioning based in Cheshire, provides blanket heat coverage of the training facility, eliminating any cold spots and has an estimated potential fuel saving of 36% over an equivalent warm air system.

The total system installed comprises 16 x 24LR burners suspended at 4.3m and 5.6m following the roof pitch, complete with ball guards and arranged in two temperature zones controlled by AmbiRad SmartCom<sup>3</sup> controllers, with just two discharge flue points.

When a Nor-Ray-Vac system is initially designed AmbiRad consider the following criteria to form the basis of each particular design:

- Heat loss of the building for the required thermal environment
- Local climate conditions
- Type of activity in the building
- Specific architectural features relating to the structure

There are many benefits of radiant heat when being applied to a sports facility:

- Radiant tube heaters, mounted overhead, produce infra-red radiant heat that is directed downward by a reflector. The infra-red heat passes through the air without heating it and falls on people, floors and equipment below by creating a comfortable all round radiant warmth at low level, without wastefully heating the whole volume of the building or the roof space.
- Achieves a comfortable environmental temperature with approx. 5°C lower air temperature, ideal for active sports
- Eliminates condensation and moisture by directly heating walls and other surfaces.
- Warms muscles prior to strenuous activity.
- Heats without air movement; increasing player comfort.
- Provides rapid heat up times.

## Installation Summary

- > Worcester Warriors Rugby Club invested in Nor-Ray-Vac continuous Radiant Tube heating system, for their Sports Facility.
- > Uniform Blanket heat coverage; minimised effect of any cold spots.
- > Highly efficient with rapid heat recovery times
- > Zoning capabilities produces considerable fuel economies and cost reductions
  - Comfortable environmental temperature with approx. 5°C lower air temperature
- > Estimated potential fuel saving of 36% over an equivalent warm air system.

## Technical Summary

- > Product Nor-Ray-Vac system installed suspended at 4.3m & 5.6m following the roof pitch
- > Heaters 16 x 24LR Nor-Ray-Vac burners in 2 Zones and 2 Discharge Flue points.
- > Controllers AmbiRad SmartCom<sup>3</sup>
- > Dimensions Length: 60m  
Width: 32m  
Eaves: 4.5m  
Apex: 7.5m  
Area: 1,9820m<sup>2</sup>  
Volume: 11,520m<sup>3</sup>





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