

HVAC News

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

» **Airbloc showcase new product range**

X3 additional products added to the range.

» **Sports & Leisure**

Application Guide - help to reduce operating costs & improve comfort and safety within the Sports & Leisure industry.

» **Train Care Depot Heating**

Application Guide - help to reduce operating costs & improve comfort and safety within designing, building, refurbishing or maintaining train care depots.

» **Case Study: Worcester Warriors Rugby Club**

Ideal Nor-Ray-Vac solution for the redevelopment of an indoor training facility at Worcester Warriors Rugby Club to create a comfortable training environment.

» **VSX range**

ECA Listed & 10th Birthday celebrations

» **Great Stock Levels**

Confident in our preparation for the Heating Season

» **Think Pink**

Our fund raising event in aid of Breast Cancer awareness

» **Additional News**

Staff news, Winter planning, Social media.....

» Airbloc Products

DX Series: Commercial/Retail Air Curtains

The DX range gives all the benefits of a traditional air curtain with the added benefit of a renewable air source.

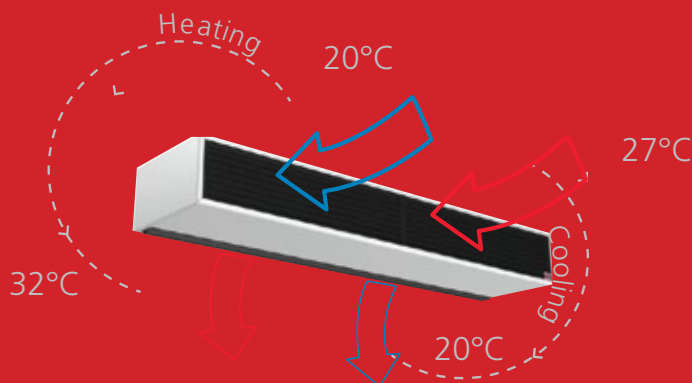
The air curtains heat output is generated by connecting the air curtain to a heat pump in either the form of a single split or multisplit system.

EC Motors are fitted as standard on all DX Models. The DX range can be coupled to most leading OEM outdoor units and can achieve high COP which reduces CO2 emissions and helps achieve a quick payback.

With lengths up to 2.5m and able to be mounted up to 4m AFFL the DX range is suitable for most entrances.

Application:

- Bars
- Hotels
- Offices
- Restaurants
- Shops



» ACV Series: Commercial/Retail Vertical Air Curtains

The Airbloc ACV series is intended for exclusive shop entrances and other environments with high demands in respect of design and sound level. They are designed for applications where space above the door is limited.

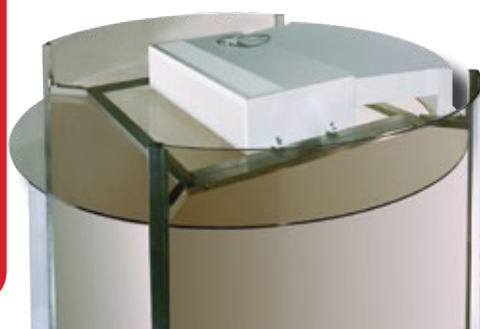


ACRD Series: Revolving Door Air Curtains

ACRD is an ideal air curtain solution for revolving doors. The air curtain is installed above the door and the exhaust duct is adapted to the diameter of the door, which gives a neat and discrete solution.

A revolving door prevents continuous drafts but still lets in a certain amount of cold air at every rotation. The air curtain prevents the cold air from penetrating and gives good heating comfort.

The ACRD consists of a unit and an exhaust duct adapted to the shape and colour of the revolving door.



Energy Efficient Solutions

» Sports & Leisure, Heating & Ventilation

This guide aims to help all those responsible for sports and leisure facilities to reduce operating costs, and improve comfort and safety, by introducing cost effective heating and ventilation into their premises.

Sport England estimates that facilities spend 25 to 30% of the total operational cost within any one establishment on energy; quite often the largest single overhead. Indeed swimming pool halls typically use 75% of their total energy bill on heating and ventilation.

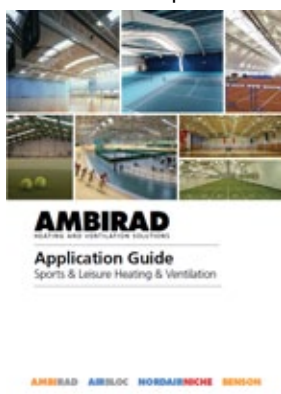
This guide advises on the selection, design and operation of the most appropriate heating and ventilation systems for multi-use sports halls, indoor sports arenas, swimming pools and other leisure facilities.

AmbiRad has extensive experience in saving energy within these environments all around the world.

Factors to be considered:

The Climate Change Levy

- » The Climate Change Levy (CCL) became effective from 1 April 2001. After wide consultation an energy tax was considered the best way of 'promoting' reductions in energy use and achieve the Government's commitments in reducing greenhouse emissions.
- » The CCL levies 0.541 pence per kWh on electricity; and 0.188 pence per kWh on gas consumption; which equates to a 20% increase on the average gas bill. This means that sports and leisure businesses now need to consider how best to reduce the burden of the energy tax. Investment in energy efficient heating can substantially contribute to minimising the impact of the levy.
- » A correctly designed and installed energy efficient heating system, can reduce gas consumption by up to 65% depending on the application and provide many other benefits.



Complete Application Guide on Sports & Leisure, Heating & Ventilation available for download on our website www.ambirad.co.uk

» Energy & Fuel Considerations

Natural gas is, on balance, the most efficient environmentally friendly practicable form of energy. Although slightly less efficient at the point of use than electricity, natural gas produces nearly 2¾ times less 'greenhouse' emission in its overall production (see table 1), and is on average only one quarter of the cost.

Therefore natural gas clearly is the most cost effective and clean fuel for sports and leisure facilities.



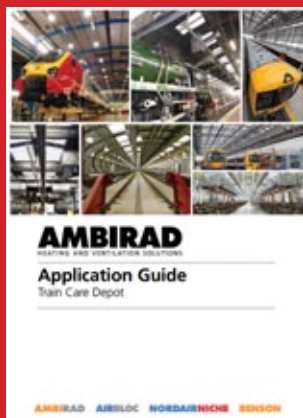
Energy Efficient Solutions

» Train Care Depot Heating

This guide aims to help those responsible for designing, building, refurbishing or maintaining train care depots, to reduce operating costs and improve comfort and safety, by introducing cost-effective energy efficient heating into their premises.

Whether it is a train maintenance shed, bogie drop or wheel lathe shed, considerable energy resources can be expended on delivering an adequate solution to providing comfort in these traditionally hard to heat environments. This guide advises on the selection, design and operation of the most appropriate heating system.

AmbiRad has substantial experience having heated train depots across the whole of the UK.



Complete Application Guide on Train Care Depot available for download on our website www.ambirad.co.uk

» Requirements of the building

The ways in which train care depots are utilised, often intermittently and at irregular time intervals, make the efficient use of energy extremely difficult. Therefore, consideration must be given to selecting a heating system that offers flexibility of operation at optimum efficiency.

The following represent some of the prime considerations when assessing the impact of any heating solution in a train care environment:

- » Train maintenance sheds are invariably very long and narrow with large constantly opening doors at each end, thus notoriously difficult to heat and even more difficult to keep warm.
- » The doors often occupy the full width of the building and may be left open for many hours a day, thus creating a wind tunnel effect and cold air at high velocity is drawn through the shed. This means that air infiltration can severely disrupt comfort conditions within the interior. A heating system needs to be able to sustain a comfortable environment in these conditions and especially provide rapid recovery once the doors are closed. Air curtains over or to the side of the doors, either ambient or heated can mitigate the issue of air infiltration at the doors.
- » Maintenance is frequently carried out at night thus compounding the inhospitable climatic conditions and with partial occupation, it is therefore important for efficient use of energy, that the heating system can be easily and effectively zone controlled.
- » The mass of a train is considerable, thus when a cold and wet train enters the shed it creates a cold sink, the heating system needs to be able to provide rapid response to changed conditions.

Energy Efficient Solutions

» Case Study Worcester Warriors Rugby Club

“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.” 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”.

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 Europeans Rugby elite.



Jim O’Toole
Chief Executive
Worcester Warriors Rugby Club

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.

“The redevelopment will give us a rugby facility which is amongst the best in English club rugby” says chief executive Jim O’Toole.

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 SmartCom³

controllers, with just two discharge flue points.

» 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 ³ |
| » Dimensions | Length: 60m
Width: 32m
Eaves: 4.5m
Apex: 7.5m
Area: 1,9820m ²
Volume: 11,520m ³ |

**Energy Efficient
Solutions**

» ECA Listed Models added to Flagship VSX Range

Renowned for our pioneering track record, being a supplier of radiant tube heating systems, we have yet again raised the industry standards in terms of innovation and technical performance.

- ECA approved
- 65% more effective than standard radiant tube heaters
- Payback of 6 months achievable when redeeming ECA allowances
- Optimum economy & fuel savings

Please follow below link for more details on the VSX range including new part numbers and updated technical information:

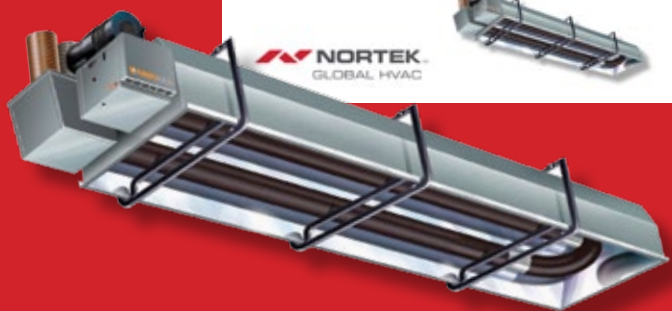
VSX - Radiant Tube Heating Systems



AMBIRAD

VSX
Radiant Tube Heating Systems

NORTEK
GLOBAL HVAC



» Happy Birthday!!!

On November 18th 2015 it will be the Vision Radiant Heaters 10 year Birthday!

The Vision range of radiant tube heaters delivers exceptional performance in terms of efficiency and potential to reduce energy costs.

The foundation of the development of this range is a high efficiency advanced burner.

10 years ago the Vision range started with the VS & VSX models and has since grown to the five models we offer today:

- » VS Range - Complete with turbulators, stainless steel reflectors and endcaps, is available in U tube, single linear and double linear models and can be mounted in linear or U tube herringbone configurations.
- » VSA Range - complete with turbulators, aluminised reflector and endcaps, is available in U tube, single linear and double linear models and can be mounted in linear or U tube herringbone configurations.
- » The higher efficiency VSX range, with recuperative heat exchanger, which is available as U tube only.
- » The higher efficiency VSO Optima complete with styling kit and optional end caps is available in U tube and herringbone configurations.
- » The high efficiency VSXO Optima range, with recuperative heat exchanger, styling kit and optional end caps is available as a U tube model only.

» Great Stock Levels

Having completed our annual Stock Take in September, we are confident in saying that we are more than prepared to do business with good stock levels of all our standard units and spares moving into the heating season.

Completing a Stock Take enables us to manage our business and effectively our customers orders more efficiently, we hope throughout the process there was little disruption to you the customer as our fundamental aim was to improve our working environment and improve our inventory management systems; thus resulting in an improvement for you the customer - which we believe will be successful due to forward planning and preparation.



» Thank you

We really appreciate your understanding throughout the process and look forward to working more with you over the coming months

» Think Pink for Breast Cancer Awareness

We would like to thank all members of our team in taking part in the **Wear it Pink** event that took place at four of our sites on **Friday 23rd October**, it was a fantastic opportunity to have some fun at work whilst raising some much-valued money for a very worthy cause "Breast Cancer Research".

On the day we had:

- Wear it Pink (with a £2 donation)
- Take your Pink Sweep Stake (with the opportunity to win a cash prize)
- Pink Treats on sale
- Fun games to play
- Prizes for the best dressed in pink

Everyone got involved and we had a great day of fund raising for Breast Cancer Awareness.

Breast Cancer Now: "@AmbiRad Thank you! We really appreciate everyone's support today. #wearitpink"

We raised a huge £575!

Congratulations to all that took part!



By joining the fight we have managed to raise awareness and have raised money to help:

£100

» Researchers could carry out 100 experiments to help pinpoint which genes make cancer cells grow and spread.

£250

» Scientists could buy one antibody, an essential research tool which lets them see which proteins help breast cancer develop, so they can find drugs that will target them.

£750

» Could help buy an amazing machine called a transilluminator, which allows us to study the DNA of breast cancer cells.

£1,000

» Researchers could look through a persons entire DNA, which would help them understand what genes make breast cancer form, grow and spread - a key step in stopping this from happening.



Energy Efficient Solutions

» Additional News

Staff update:

Stuart Roberts, Area Sales Manager South East will be leaving Nortek Global HVAC (UK) on Friday 30 October 2015 and we wish Stuart all the best for his future career.

We are currently recruiting to fill the vacancy which will be left when Stuart leaves and will inform you of the new Area Sales Manager's details when we are successful.

In the meantime should you require any further information or assistance, please contact either:

Teresa Griffiths, Customer Service Team Leader	01384 489721, or
Paul Fox, Sales Manager – AmbiRad	07778 604222, or
Nick Winton, Nor-Ray-Vac Product Manager	07778 604223

HVR Awards:

We made the shortlist for the industry awards that celebrate excellence and innovation in the building services sector.



The panel of judges for this year's HVR Awards named Andrew Thompson, Technical Design, as a finalist for the Customer Service Award.

Although we were not successful on this occasion, being in with a chance of winning a major industry award has given the business a real boost.

Preparation for Winter:

Cooler weather is upon us and Winter is getting nearer, is your HVAC system ready for Winter? We are ready!

Ensure your units are prepared for the strain:



Are you ready for winter?

- » Fresh Filters
- » Servicing
- » Cleaning
- » Check Seals
- » Fuel Levels
- » Maintenance

» Social Media



Follow & Retweet!

To be in with a chance to win an **Amazon Fire Tablet** simply follow @Ambirad & retweet our competition tweets, it really is that easy!

The Winner will be drawn on the 20th November!



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