



De-stratification is recommended  
by The Carbon Trust\*

# AIRIUS IN EDUCATION

Save 20-50% on heating & cooling  
costs with Airius - **The world leaders**  
in De-stratification technology



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# Educational

As those working in the educational industry will know, heating and cooling systems in Schools, Colleges and Universities is one of, if not the most costly building running costs and requires constant management in order to maintain comfortable levels for both staff and students.

Airius have been working with schools, colleges and universities, not only throughout the UK, but all across the world to help reduce their running costs (in some cases by over 50%) and maintain optimum comfort levels for learning and teaching with the Airius destratification system.



## Features & Benefits

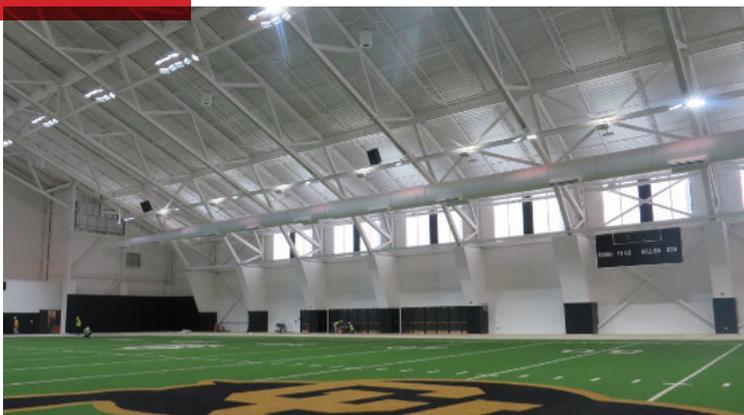
- **25-50% savings on heating and cooling costs**
- **25-50% reduction in carbon emissions**
- **Vastly improved comfort levels all year round**
- **Rapid ROI - Usually 12 - 24 months**
- **Reduces heat loss in swimming pools**
- **Minimal running costs (from £6/pa)**
- **Increased pupil attentiveness**
- **Optimises ALL types of HVAC systems**
- **Recirculates heat risen to ceiling to where you need it**
- **Silent running causes no noise disturbance**
- **Recycles heat from solar gain, lighting, people etc.**
- **Significantly reduced HVAC maintenance costs**



The effects of stratification, which is the vertical layering of increasing temperatures in a space as a result of heat rising, is a common and costly problem experienced in schools, Colleges and Universities. The typical design of these buildings with high ceilinged Assembly Halls, Lecture Theatres, Sports Facilities and Swimming Pools etc. means excessive amounts of heat needs to be supplied to first fill the void above head height before desired temperatures reach floor level. Alternatively, in cooled spaces interior design, furnishings and atmospheric loss through open doors and windows hinder uniform distribution of comfort. With the Airius destratification system the need to over-heat or over-cool a space is eliminated and significant savings can be achieved.

As well as being endorsed by the Carbon Trust, who recommend destratification as one of their top cost and carbon saving measures, the Airius Range is available to purchase under the Salix funding scheme which delivers 100% interest free capital to the public sector, giving the flexibility to fund projects through the savings made.

# Installation Images



# Client Testimonials



“ Students and staff have commented on the improvement ”

"I would like to thank the Airius team for being very helpful and informative. The Airius units have provided us with **a sports hall that is now comfortably heated for the winter months** and our students and staff have commented on the improvement."

Lynne Galsworthy - Business Manager

“ Life is much better for our students and staff ”



"The National Star College is a residential further education college for students with disabilities. Our main Sports Hall is a 21m x 14m x 9m high unit, which has been difficult to heat, because all the warm air rises to the roof. Because a lot of our students are in wheelchairs, they feel the cold more than an ambulant person. We do not have sub metering in this area, but rest assured, **life is much better for our students and staff!**"

David Crompton - Head of Estates



“ They have proved effective at redistributing warm air from the ceiling to the areas below ”

"We are using the Airius Destrat fans for our Music Rooms and **they have proved effective at redistributing the warm air from the ceiling to the occupied areas below.** The fans are very quiet, located in rooms where music is taught and performances take place.

**We are now considering installing the Airius fans in our Large Hall.** It is used for assemblies, dining and performances and the fans will work well in redistributing heat during the winter as well as providing movement of air during the summer. This will be particularly welcome on sunny days when exams are being held in the hall."

Gary Kelly - Business Manager

“ We are extremely happy with the results! ”



**Manukau Christian Charitable Trust**  
Shining Jesus' Love In Community

"I am delighted to recommend Airius destratification systems into a preschool facility. We commissioned our new 80 child preschool in Clendon and had 4 units installed. It had been a very hot summer but **the Airius units have cooled the preschool down by circulating the air - they are almost as good as air conditioning units!** We are renovating an older preschool and will be installing the Airius units in the centre too as **we are extremely happy with the results!**"

Tony Bracefield - General Manager

# Client Testimonials



“ The Airius units are really good! ”

"I have spoken with the PE Teacher from the local High School who are a major user of the stadium and sports halls, which were suffering from overly high temperatures during periods of activity, and they are finding **the Airius units are really good, especially in Summer!**"

Helen Mathew (FRAIA) - Mount Beauty Sports Centre

“ We are extremely happy with the results! ”



"Prior to the installation of the Airius model 25's, the mezzanine in the main admin block was unbearable to work on – **since the installation the whole admin area has improved. The mezzanine is not as hot and the main area on the ground has a much more stable temperature.**

I can honestly say that the installation has improved comfort levels considerably for staff in the whole area."

Yvonne Conway - Estates Manager

“ The Airius system is very good at its job! ”



"The management were initially sceptical about making improvements to the room, but after installing the Airius system they felt much better. They said their overall impression of the systems performance was 8/10! **The managements feelings about the Airius system changed significantly**, from having no opinion to now thinking that **the Airius system is very good at its job!**"

Mark Winstanley - Facilities Manager



“ I would highly recommend the Airius system ”

"The Airius destratification fans are a great asset to the school hall. **The main benefits for the school include improved air circulation, a balance of temperature throughout the building, low running costs, silent operation and easy installation – all at a highly affordable price.** Whilst the gas heaters installed warms the hall effectively within 15 minutes, to maintain this temperature for long periods of time would be cost prohibitive to the school.

This is where the Airius system comes into play, as even after the heating is turned off the Airius units continue to circulate warm air, pushing it back down to the students below. **I would highly recommend the Airius system.**"

Andrew Loudon - Architect

# Selected Client List



The Aylesbury Vale Academy



Warden Park  
*'The Best From All'*



University of  
**BRISTOL**



**Redborne**  
*Upper School & Community College*



*'Enjoy and Achieve'*



Teesside  
University



University of  
**St Mark & St John**  
*Plymouth*



Gilbert Scott Primary School  
Inspiring all, to achieve in learning for life



ACKWORTH SCHOOL



**St Thomas Aquinas Bowral**  
A Catholic Parish Primary School Diocese of Wollongong



**Frensham Heights  
School**



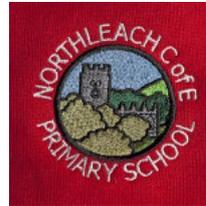
**FAKENHAM  
ACADEMY  
NORFOLK**



Specialist School in  
Science and Performing Arts



# Selected Client List



# St. Thomas Aquinas - Primary School

**St Thomas Aquinas Bowral**  
A Catholic Parish Primary School



St. Thomas Aquinas Primary School needed to address the prohibitive heating costs for running their school hall.

Their gas fired heating system needed to run continuously in order to maintain comfortable internal temperatures for students and teachers, resulting in high energy bills and carbon emissions.

After installation of the Airius system comfortable temperatures were easily achieved and maintained. The workload on their HVAC system was also heavily reduced, making significant savings on running costs and CO<sub>2</sub> emissions.



## Key Points:

- Internal temp maintained at 18°C - 20°C
- External Temperature <12°C
- Ceiling Apex = 6.7m
- Before Airius heating ran continuously
- After Airius heating now only runs in 15 minute cycles, a few times a day
- Improved pupil attentiveness
- Conditions balanced throughout whole building
- Quick and easy installation
- Vastly Improved air circulation
- No hot or cold spots

*“The Airius destratification fans are a great asset to the school hall.*

*The main benefits for the school include improved air circulation, a balance of temperature throughout the building, low running costs, silent operation and easy installation – all at a highly affordable price.”*

Andrew Lowden - Project Architect

## CASE STUDY - EDUCATIONAL



St. Thomas Aquinas School in Bowral installed 8 Airius destratification fans to help reduce the excessive heating costs in their newly constructed school hall.

Project designers Martin O'Toole Architects specified the Airius system as a cost-effective solution to ensure the building reduced its heating bills and carbon emissions. The system also qualified for funding under the 'Building the Education Revolution' (BER) scheme, which was designed to provide new and refurbished infrastructure to eligible schools.



Lead architect on the project Andrew Lowden visited the school after installation when outdoor temperatures in Bowral did not exceed 12°C.

“The hall’s gas heating system warms the hall effectively within 15 minutes. However, to maintain this temperature for long periods of time would be cost prohibitive to the school. This is where the Airius units come into play. Once the hall is occupied, the gas heaters are turned off, leaving the Airius units running to circulate the warm air. When the Airius system was turned on, a constant temperature between 18-20°C was maintained for a surprisingly long period of time” he says.

In addition to maintaining comfortable temperatures in the main hall, the Airius system had been designed to ensure the warm air generated by the gas heaters would be distributed evenly throughout the entire building.

“Although the school was on a tight budget, the Airius units were highly affordable and gave an attractive payback period, resulting in significant cost savings against the school’s existing gas and heating bills” Andrew continued.

“I would highly recommend the Airius solution for my future projects.”

# SCEGGS Sports - Basketball Courts



Leading private school, SCEGGS Darlinghurst, had a significant over-heating problem in their multi-purpose Basketball hall. They had considered blade fans to increase air movement, but these were vulnerable to impact and they wanted a more aesthetic and cost effective solution. So they contacted Airius.

Not only was the Airius solution cheaper to install, but was more durable, covered a greater floor area and provided ample cooling, without the need for an expensive Air Conditioning system.



## Key Points:

- **Basketball Court:**
  - 1,000m<sup>2</sup>.
  - 10m high ceiling.
- **Airius solution = 8 x Model 60's.**
- **Comfort levels increased dramatically.**
- **Cooling effects felt immediately.**
- **Simple, quick & cheap installation.**
- **Durable & resilient to impact.**
- **Also reduces heating costs in winter.**

SCEGGS facility manager Keith Stevenson approached Airius to help address severe over-heating problems in their 1,000m<sup>2</sup> multi-purpose Basketball Court facility.

The basketball courts were in a room 10 metres high with a concrete ceiling. Tennis courts were located on the floor above, which contributed to the over-heating.

8 Standard Airius Model 60 units were supplied with two five Amp (SC-05) Speed Controllers, for an installed cost 20% cheaper than blade fans, whilst also providing greater floor coverage.

As a bonus the units were adjustable in any direction. This allowed SCEGGS to direct the air flow to where it was needed, but without causing interference to activities such as badminton, where normally the airflow from alternative fans would impact on the flight of the shuttlecock.

The improvement in comfort inside the space was instant and they indicated that even on the warmest summer days the air movement offered cooling and made the space much more comfortable and usable.





***“The Airius system has been in operation for six months now. We are more than happy with the results.*”**

***The space is a lot more usable in the summer months. We have received great feedback from both the school PE department and also external hirers.***

***We are extremely happy with the performance and comfort we receive since installing these Airius fans and would happily recommend them to other organisations needing to circulate air and increase thermal comfort.”***

Keith Stevenson - Facilities Manager, SCEGGS Darlinghurst.



## CONTACT US

# Get in touch!

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