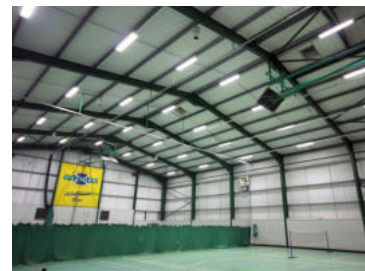




SAVE ENERGY, CUT COSTS, IMPROVE COMFORT, REDUCE CARBON

Save 20-50% on heating & cooling costs in
Sports & Leisure Facilities with Airius

The world leaders in Destratification technology



www.airius.co.uk

Destratification is recommended by The Carbon Trust*

David Lloyd
— CLUBS —



MEMBER



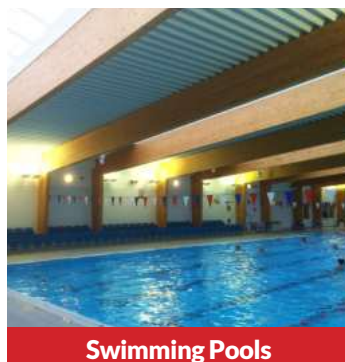
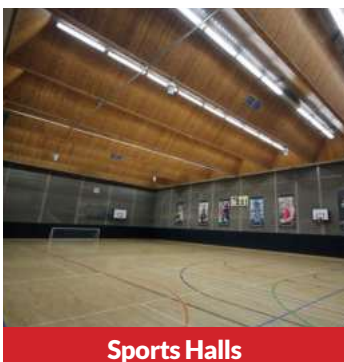
Sports & Leisure

Airius are world leaders in destratification fan technology and have the largest range of fan units, suitable for any leisure centre application.

London Aquatic Centre

Controlling energy costs as well as achieving and maintaining comfortable internal environments in leisure centres is expensive and challenging.

Leisure facility operators don't need to be told that energy costs come second only to labour costs, which is not surprising due to the very nature of the design and size of most sports buildings. It does not matter if it's a swimming pool, gym or sports hall; altogether they create a challenge for any HVAC system not only to maintain required temperatures but create environments which are agreeable for users.



3

Airius destratification fans work simply and inexpensively alongside all types of HVAC equipment to improve your energy management by balancing temperatures, reducing both heating and cooling costs by between 20% to 50% or more and create gentle air movement throughout the internal space.

Airius are World leaders in destratification fan technology and have the largest range of fan units that can be installed into both open and suspended ceilings and are suitable for any leisure centre application such as:

- Communal spaces such as reception, crèche rooms, offices, cafés etc.
- Gymsnasiums, dance studios and fitness centres
- Swimming pools
- All types of multi-purpose sports halls
- Indoor tennis and cricket halls
- Bowling alleys and skating rinks
- Indoor climbing centres
- Changing rooms and shower facilities

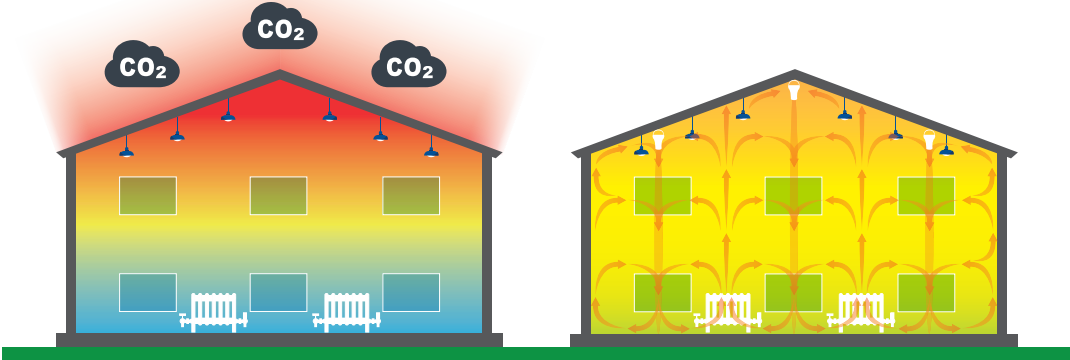
How it works

Thermal stratification affects all buildings and has been labelled as *“the single biggest waste of energy in buildings today.”* - DTE Energy.

Hot, lighter air rises towards the ceiling. Cool air falls to the floor. This causes a dramatic temperature difference between the floor and ceiling and results in HVAC systems over-delivering on both heating and/or cooling to overcome the effects of thermal stratification.

Consequently, energy bills are much higher and internal environments rarely meet expectations.

4




Stratification


Destratification


Airius destratification fans are installed at ceiling height and send air down to the floor in a tight, slow-moving column.


When this air reaches the floor, it radiates 360° outwards until it meets a vertical surface and/or air coming from neighbouring Airius fans and then it rises back up towards the ceiling.


As this air rises it entrains back into the descending column, which creates millions of tiny vortices, making the air move at the same speed throughout the whole interior space creating a balance of temperature.


- 


Significantly reduces heating and cooling costs
- 

Comfort level improved throughout
- 

Reduces CO₂ emissions
- 

Building heat-up time reduced
- 

Stores heat in concrete floors, walls etc
- 

Reduces or eliminates condensation, corrosion & glass fogging
- 

Recycles heat from processes, people and solar gain

Features & Benefits

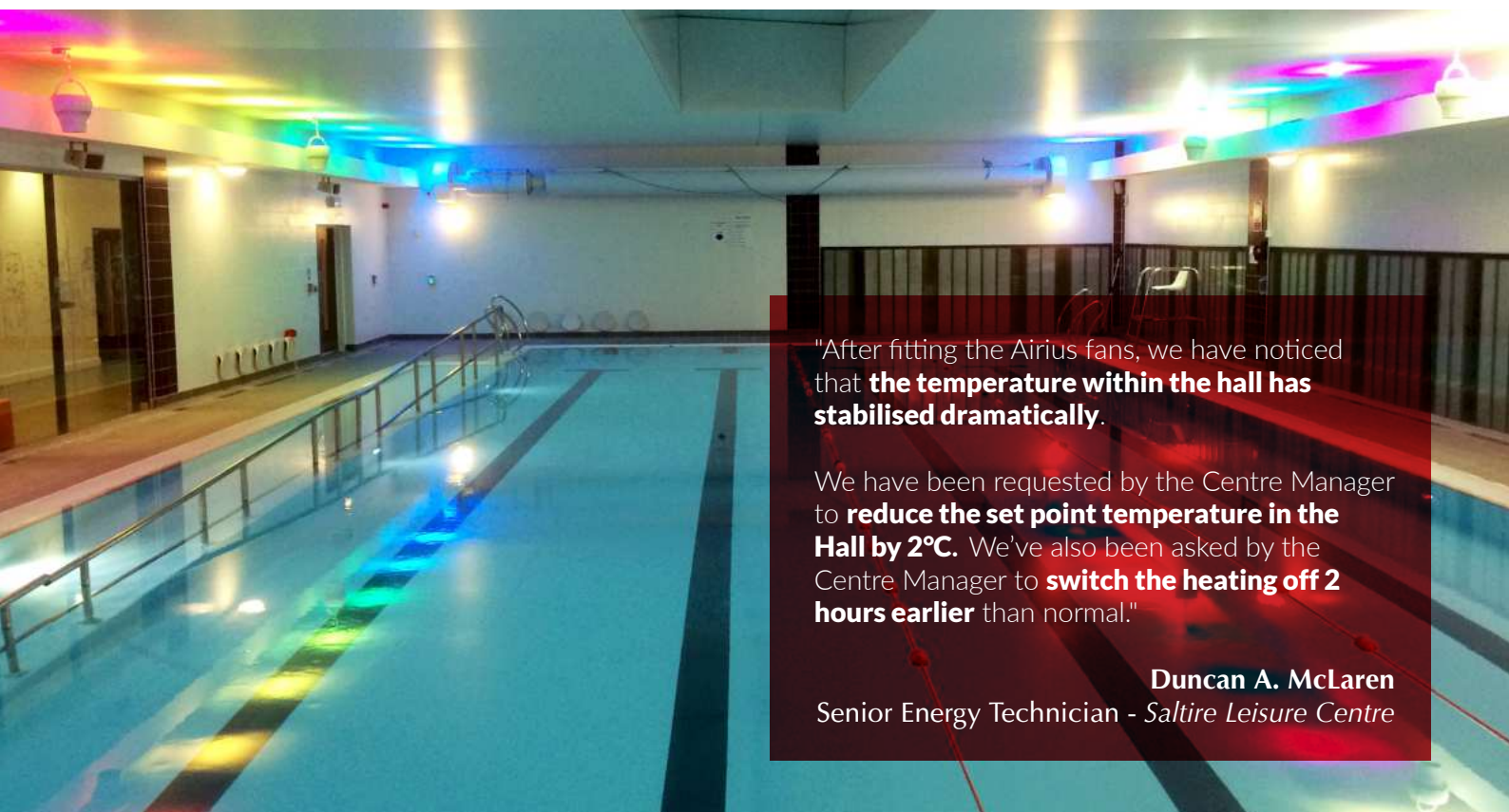
Airius destratification fans are the only brand to feature our patented multi-vane stator technology.

While most fans use basic motors to churn air through space, Airius fans are equipped with industry-leading EBM Papst motors, which help to deliver incomparable levels of efficiency and longevity.

Main Benefits

- Optimises both heating and cooling
- 40%+ reduction in heating costs
- 40%+ reduction in CO₂ emissions
- Works with & reduces maintenance costs for ALL HVAC systems
- Recycles heat from pool water, lighting and solar gain
- Reduces building heat up time
- Significantly reduces pool side temperature complaints
- Increases lighting lifespan
- Reduces heat build-up in upper levels
- Near silent operation
- Vastly improves comfort levels
- 25%+ reduction in cooling costs
- Rapid ROI - Usually 8 - 18 months
- Easy retro installation or designed into new build specification
- Improved air circulation provides better conditions for sports users
- Minimal running costs (from £24/pa)
- Reduces or eliminates condensation, corrosion & wet floors
- Air flow does not interfere with sporting activities
- Eligible for grants/loans

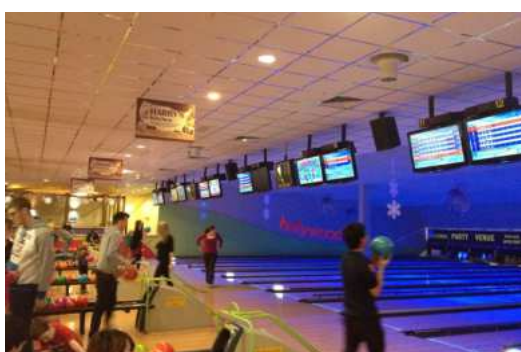
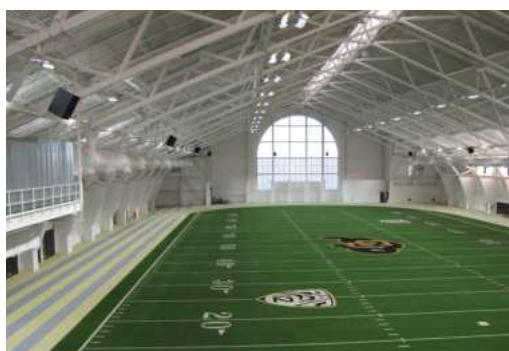
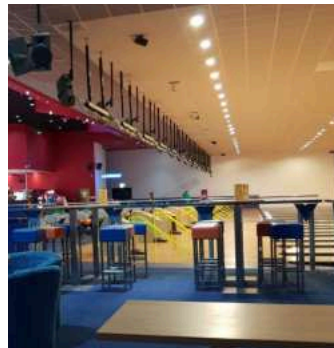
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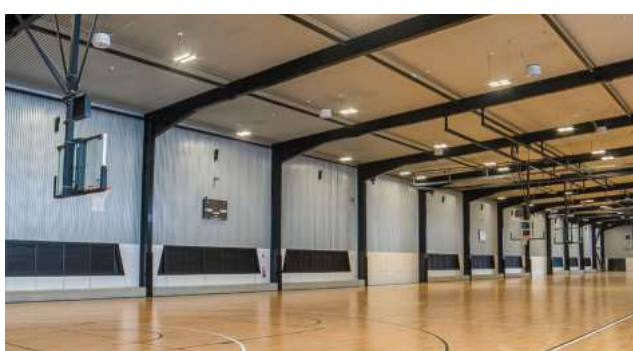


"After fitting the Airius fans, we have noticed that **the temperature within the hall has stabilised dramatically.**

We have been requested by the Centre Manager to **reduce the set point temperature in the Hall by 2°C.** We've also been asked by the Centre Manager to **switch the heating off 2 hours earlier** than normal."

Duncan A. McLaren
Senior Energy Technician - *Saltire Leisure Centre*





Assured quality

Airius Destratification fans have been installed into many commercial, private, public and government buildings. Discover who we work with and what they have to say.

Customer testimonials

“The temperature within the hall has stabilised dramatically.

Duncan McLaren - Energy Technician - Saltire Leisure Centre

"After fitting the Airius fans at a local Sports Centre, we have noticed that **the temperature within the hall has stabilised dramatically.**

We carried out remote temperature readings before and after installation and after the installation, we noted that the variance in temperature over a 24-hour period was between 1°C and 1.5°C, this is a significant improvement over previous findings. In addition, feedback from Centre users has been very positive with a number of **customers commenting on the "freshness" of the internal environment.**

We have been requested by the Centre Manager to **reduce the set point temperature in the Hall by 2°C. We've also been asked to switch the heating off 2 hours earlier than normal.**

“The Airius units have allowed us to increase our thermostats from 19°C to 23.5°C, resulting in a saving of over 70% on our cooling costs.

Ben Carne - Energy Manager - Bowlplex Plc. Ltd

"We are very impressed with the results Airius fans have achieved in our ten-pin bowling centre at Nantgarw in South Wales. The atmosphere inside has been greatly improved reducing staff & customer comfort complaints by 90%. **They have also allowed us to increase our thermostats from 19°C to 23.5°C resulting in a saving of over 70% on our cooling costs.** The Airius system has far exceeded our expectations & will be standard equipment for all our 18 bowling centres in the UK."

.....
“The objective was air quality improvements for a public swimming pool.

David Hamer - Maintenance Surveyor - Midlothian Council

"The objective was air quality improvements for a public swimming pool at Loanhead Leisure Centre.

Installing the Destratification Fans was a first for us and addressed a need to improve the working environment of the pool-side staff. **The fans were straightforward to install** through our M&E contractor A McKay & Co.

Now that the system is running in co-ordination with the air handling plant this has been achieved successfully."



“ They are safe, quiet and energy efficient and allow us to save on our air-con costs.

Matt Lambert - Owner - Rogue Rock Gym

"I would like to compliment your company on a fine product.

We use your Airius System in our 6,000 ft² rock-climbing gym. Rock-climbing gyms present a unique challenge when thinking about ventilation. Climbers do not want to climb up into a hot area, whilst customers at the bottom of the “rock” still need to be kept warm. We needed warm air at ground level with no increase in temperature as the climber ascends the wall.

The Airius system is perfect in this application.... they are safe, quiet and very energy efficient and allow us to save on our air conditioning costs."

.....

“ It's reduced our heating costs by an impressive 25% in the swimming pool.

James Dunn - Facilities Manager - Newtownabbey Council

"We installed Airius destratification fan units into 2 sports halls and the swimming pool area at the Sixmile Leisure Centre, Newtownabbey.

These units have made a vast improvement to the internal atmosphere within the buildings and the public who use the facilities find the air quality greatly improved for sporting activities. The heating systems come on much less often and the *complaints from swimmers about the warmth in the swimming pool area has reduced by 90%.*

We have found *the Airius units have reduced our heating costs by an impressive 25% in sports halls and swimming pool area; the thermostat in the swimming pool building has also been turned down 2°C!"*



“ I would highly recommend Airius destratification fans.

Tom Lyons - Knowsley Council

"Since the installation of the units *the air quality and temperature has vastly improved and people are now feeling a lot more comfortable in the environment.*

I would highly recommend the Airius destratification fans as they have been the perfect solution to our problem."

.....

“ Our customers have commented on the improvement.

Lynne Galsworthy - Business Manager - Rawlett Academy

"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 customers have commented on the improvement."

Discover more

See our full list of 65+ customer testimonials on our website at www.airius.co.uk/testimonials

LAC (London Aquatic Centre)

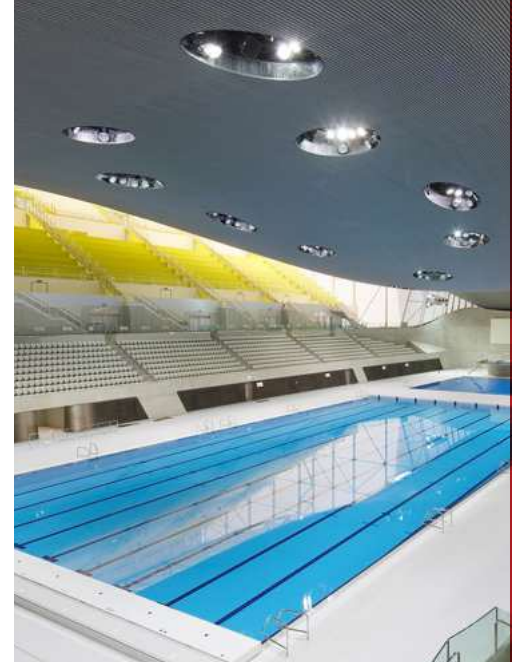
Queen Elizabeth Park

To resolve uncomfortable temperatures and poor heating efficiency in their 2,800-spectator arena, the Airius system was installed throughout the space.

In the 14 months following installation the centre saved over £150,000 on heating costs, reduced their CO₂ emissions significantly and benefited from an ROI of only 5 months.

Key Points:

- **5-month ROI**
- £150K energy saving over 14 months
- 650 tonne reduction in CO₂ per annum
- Significantly improved comfort
- Condensation reduced
- Heat loss reduced substantially



HEATING

10



Virgin Active

Flagship Fitness Centre

Virgin Active approached Airius to provide a cooling solution that would save energy and air conditioning ductwork, whilst offering minimum impact on activities in their new flagship Fitness Centre.

The compact Airius Retail Series system was specified and the result has been a huge success, with many more Virgin facilities now utilising the Airius system.

Key Points:

- **Airius now rolled out to multiple sites**
- Air Con costs reduced significantly
- Substantial capital savings on ductwork
- Cooling comfort improved immediately
- Adaptable to changing floor plans
- Customised colour to suit environment



COOLING

Energie Fitness

Cutting Edge Health & Fitness Club



PURIFICATION

Energie Fitness contacted Airius to specify an infection control system that would protect staff and customers from COVID19 and other viruses or pathogens.

The PureAir Series was specified for the facility, providing continuous 24/7 protection for occupants as well as a reduction in heating and cooling costs.

Key Points:

- **Both the air and surfaces sterilised**
- Neutralises up to 99%+ of all germs & viruses
- Up to 99.9% effective against COVID19
- Reduces or eliminates unpleasant odours
- Airflow dries machines of perspiration rapidly
- Also reduces heating and cooling costs

Knowsley Leisure

Kirkby, Halewood & Stockbridge Leisure Centre



HEATING

Volair are responsible for operating Knowsley leisure services and installed the Airius destratification system throughout 3 of their centres. Their aim was to overcome heat rising to their high ceilings to improve comfort, but most importantly reduce HVAC costs.

Following installation both these goals were achieved, along with many additional benefits of destratification.

Key Points:

- **HVAC costs reduced by 35%**
- Vastly improved comfort levels
- Installed throughout their halls, gyms, pools, studios and communal areas.
- Reduction in pool heating costs
- Significant reduction in CO₂ emissions



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