

Cooling in Basketball Halls and Sports Centres SCEGGS Darlinghurst, NSW

SCEGGS Darlinghurst, a leading private girl's school in Sydney, had a significant summer overheating problem in their Basketball hall. Two large bladed fans had been specified as a cooling option and SCEGGS approached Airius Oceania to see if they could provide a more aesthetic and cost effective solution to cooling via air movement in the hall. Airius could satisfy the customer on both counts.

CASE STUDY 2015



School and community sports centres are large spaces and in the Australian climate often have issues with overheating in summer.

Current solutions are limited to:

- Air Conditioning – high capital expense and running costs
- Large blade fans – expensive installation, aesthetics, structural issues, height restrictions, risk of damage from users, strobing.

The use of air movement for cooling by moving the air across the skin and causing evaporation has been used for centuries in all sorts of tropical and temperate climates. It is a cost effective solution to the overheating problem.

SCEGGS facility manager Keith Stevenson approached Airius Oceania P/L to provide a proposal to supply Airius Air Pears in lieu of large bladed fans.

The basketball courts were in an older building 10 metres high x 1,000 sq. metres with a concrete roof containing tennis courts above which led to overheating. The building structure combined low levels of insulation with limited and small window openings at high level only. Overheating in summer especially during assemblies in the hall or when active sports such as basketball occurred was of major concern to the school.

Airius supplied 8 x Model 60 Airius Air Pear units with two five amp SC-05 speed controllers for an installed cost 20% per cent cheaper with greater floor coverage than the alternative large bladed fans.

As a bonus the units are adjustable in any direction to enable the customer to direct the air flow to where it may be required.

At 10 metres high these unobtrusive and quiet units provide a large amount of air flow all across the space including the bleachers with full controllability offered in five steps from 0-100%.

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

Additionally, in winter, the destratification performance of the Air Pears is unmatched significantly reducing the heating costs of the space.

Please see an extract from the testimonial provided by Keith Stevenson, the facility manager at SCEGGS, Darlinghurst.

**For further information, please contact
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TESTIMONIAL

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"The air pear 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 hotter 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 air pear fans and would happily recommend them to other people needing to circulate air and increase thermal comfort."

Yours faithfully,
Keith Stevenson
Facilities Manager
SCEGGS Darlinghurst
Mobile - 0477 371 651



Basketball court, SCEGGS Darlinghurst

Other similar facilities using Air Pears for cooling include:

- Macquarie Valley Grammar School, Dubbo, NSW.
- Mt Beauty Basketball Stadium, Victoria.
- St Coloma's Sports Hall, Essendon, Victoria.
- Monte San't Angelo, North Sydney.
- Armadale Arena, Armadale, WA
- St John's College, Dubbo, NSW

