

## Cooling in Basketball Halls and Sports Centres St Stephens College, Gold Coast, QLD

St Stephens College, a leading private school on the Gold Coast in Queensland, had a significant summer overheating problem in their large basketball hall. Four large bladed fans had been specified as a cooling option and St Stephens College approached Airius Oceania to see if they could provide a more aesthetic, simple to install and cost effective solution to cooling via air movement in the hall. Airius could satisfy the customer on all counts.

### CASE STUDY 2017



Basketball court, St Stephens College

**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, light 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.

In 2015, St Stephen's College's Director of Sport, Rob Reib, approached Airius Oceania P/L to provide a proposal to supply Airius Air Pears as an alternative to large bladed fans.

The two basketball courts were in a relatively new building with high roofs around 10 metres high and around 1400 sq metres in size. Located in a sub-tropical climate, high summer and moderate winter temperatures combined with high humidity are typical for the area.

The building design has limited capacity for cross flow ventilation and suffered from severe overheating in spring and summer. The building is used for both sports and classes and the overheating impacted negatively on both sports performance and learning outcomes.

Airius supplied 12 x Model 60 Airius Air Pear units with two five amp SC-05 speed controllers for an installed cost of around 15% cheaper and with greater floor coverage than the alternative large bladed fans.

As a bonus the units are very quiet and 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. Full speed control capability is 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 Gold Coast summer the air movement offers cooling and has made the space much more comfortable and usable.

Please see an extract from the testimonial provided by Rob Reib the Director of Sports at St Stephens College, QLD.

### TESTIMONIAL

*"On hot days, the auditorium air was still, lacked air flow throughout the space and created issues for all those participating in physical education classes and sporting activities in the building.*

*We considered using large fans to solve this problem. However, we decided to use Airius Air Pear® Model 60 PS4 units for their perceived effectiveness, appearance and competitive pricing. 12 of the Air Pears were installed, equally spaced around the hall with two speed controllers.*

*The units were suspended off the roof structure and were easy and quick to install.*

*The Airius Air Pears fans have proved to be effective and do not dominate the space but fit easily into the hall; they are almost not noticeable whilst moving the air around the hall, creating air flow on hot, still days making the hall more comfortable to teach and learn in."*

Yours faithfully,

**Rod Seib**

**Director of Sport**

Saint Stephens College

Gold Coast Qld

### Other similar facilities using Air Pears for cooling include:

- SCEGGS Redlands, NSW
- SCEGGS Darlinghurst, NSW
- Yarra Valley Grammar, Vic
- Sutherland Netball Association, Anzac Hall, NSW
- Tumut Basketball Hall, NSW
- Toowoomba Grammar School, QLD
- PLC Burwood, Vic.
- Macquarie Valley Grammar School, Dubbo, NSW
- Mt Beauty Basketball Stadium, Victoria.
- St Colomba's Sports Hall, Essendon, Victoria.
- Monte San't Angelo, North Sydney
- Armadale Arena, Armadale, WA
- St John's College, Dubbo, NSW



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