

# airqube®

**Fresh Air  
without the  
NOISE**

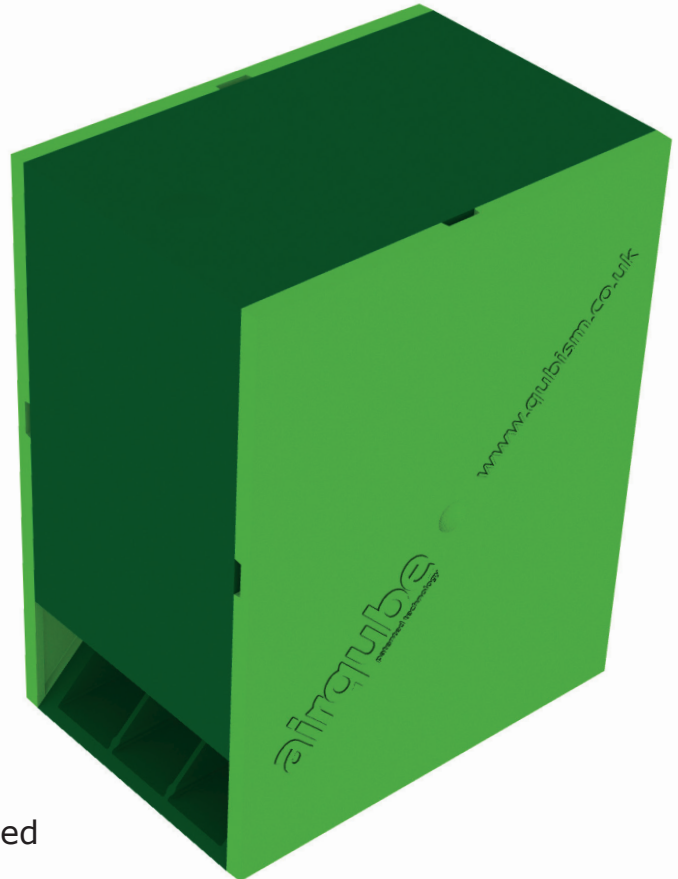
Natural ventilation & superior noise reduction

**airqube® is a passive noise control product designed to provide natural ventilation to buildings while providing significant noise reduction.**

## Engineered and Tested

The technology behind **airqube®** has been patented and originated from PhD research at Sydney University. The patents were the culmination of 10 years research to refine the technology for a range of commercial applications.

**airqube®** has drawn on a range of theories and specialist sciences to bring it to market: mechanics, physical acoustics, computational fluid dynamics, finite element analysis, 3D printed prototyping, industrial design and injection moulding manufacturing.

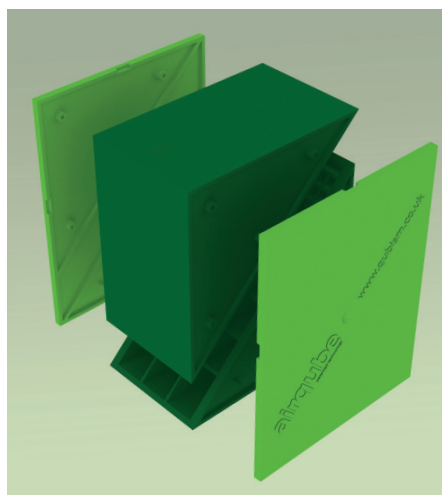


**Easy to  
install**

**26 dB(A)  
noise  
reduction**

**Made  
Locally**

**Modular  
expandable  
design**



Over 15 Years of Invention

## What is aircube®?

- A noise control product designed to provide natural ventilation to buildings while providing significant noise reduction.
- A passive device - no moving parts and does not require any power source.
- Modular, expandable design – multiple units can be connected together to suit all airflow requirements while still providing superior noise reduction.

## Design

- The tubes contained within the device are tuned to typical urban noise environments.
- Meets UK Building Regulations Document F requirements for ventilation.
- The compact size has the ability to fit within space limitations.

## Technical Data

- Overall noise reduction of 26 dB(A) with individual third octave band reductions of up to 34 dB.
- Module dimensions – 192mm x 150mm x 85mm.
- Module vent opening size – 42mm x 85mm.
- Material: recyclable polycarbonate, UV stabilized and flame retardant.

## Uses

- Residential – fresh air and cross ventilation in new build developments and refurbishments.
- Schools – cross ventilation of classrooms
- Commercial Buildings – façade ventilation, ceiling void ventilation and acoustic privacy between private offices.



### Roger Kelly

Roger Kelly graduated from Cambridge University in 1993 with a Masters in Engineering and another Masters in Environmental Design in Architecture. It was his passion for music that has

led him to take up a career in Acoustics. In 2002 Roger started the UK franchise of a Belgium based company CDM which specialises in noise and vibration isolation. This company has grown from strength to strength and will turnover approximately £2M in the UK in 2014. Roger is a Director on the main board of the CDM Group in Belgium and is currently the Chairman of the Building Acoustics Group of the Institute of Acoustics and is a well-respected professional in the industry. Roger first met Chris in 1997 when they were both working for Arup Acoustics in the Sydney office and they have been collaborating ever since. Roger's applied engineering experience and extensive list of international contacts in the acoustics industry make him the perfect Sales Director for Qubism.

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### Dr Chris Field

Chris holds a Mechanical Engineering degree and a PhD in Acoustics. As an outcome of his PhD, Chris invented and obtained international patents for a passive noise control ventilator

for naturally ventilated buildings, called Silenceair®. He joined Arup in 1996 as an acoustic consultant. Chris specialises in the use of natural ventilation in commercial and residential buildings while maintaining acoustic comfort. He won the Australian Acoustical Society 2004 Excellence in Acoustics Award and won the 2004 Invention of the Year on the ABC's New Inventors TV programme. Chris has over 20 peer refereed technical publications, holds 3 international patents and contributed two chapters to the Encyclopedia of Noise Control. He is also on the technical review panel for the Australian Green Building Council's Greenstar® building rating system with regards to acoustic design credits. He is the Technical Director of Qubism Ltd.

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