

# Hybrid ventilation systems for TG Escapes eco buildings

Passivent has been working with TG Escapes eco buildings since early 2019, providing its hybrid ventilation system for use in their modular buildings which are constructed offsite at their factory in Coventry.

**passivent**



Image courtesy of TG Escapes eco buildings

End client  
**TG Escapes eco buildings on behalf of numerous schools and other clients**

Consulting engineer  
**Designphase**

Technology used  
**Hybrid Aircool® ventilators and iC8000 multi-zone controllers**

TG Escapes provides modular school buildings, commercial spaces, sport/leisure facilities and garden buildings in a range of innovative and stylish designs. Using modern methods of construction and natural materials, the company manage the complete design and build process of their flexible timber frame building systems and ensure that they provide consistent working temperatures, optimum air quality and acoustic comfort whilst maximising natural light.

Passivent has supplied its hybrid classroom ventilation systems to TG Escapes for several years and its relationship with them has grown from strength to strength. The net zero multi-classroom block at Samuel Ryder Academy shown above is just one example of a collaborative project.

## The challenge

TG Escapes required a ventilation system for their modular buildings that draws in and circulates fresh air, removing stale polluted air and optimising indoor air quality, whilst simultaneously ensuring thermal comfort and enhancing occupant wellbeing.

The ventilation system also needed to meet the requirements of Building Bulletin 101 (Guidelines on ventilation, thermal comfort and indoor air quality) and Building Bulletin 93 (Acoustic design of schools; performance standards).



Image courtesy of TG Escapes eco buildings



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## The solution

Passivent's Hybrid Aircool ventilator and iC8000 multi-zone controller provided TG Escapes with everything they needed to ventilate their modular buildings, including meeting the above-mentioned Building Bulletins.

This quiet, energy efficient system can be ducted and installed within a ceiling void, an option which TG Escapes required, but it can also be ceiling mounted.

The system provides TG Escapes' modular buildings with three modes of ventilation, depending on the interior and exterior environment, including an innovative air tempering and mixing unit and sensors that automatically respond to CO<sub>2</sub> levels. Passivent's iC8000 intelligent control system can also be integrated with a third-party system to aid the heating and cooling of the internal air temperature.

The Hybrid Aircool forms part of Passivent's Aircool range of controllable wall and window ventilators which are used across a range of sectors. In addition to the hybrid variant of the Aircool, Passivent also offers standard, thermal or acoustic Aircool® ventilators.

## Testimonial

*"TG Escapes Ltd first engaged with Passivent in early 2019 and the company has since become a valued part of our supply chain, working closely with our design, procurement and operations teams.*

*We have found the Passivent team to be knowledgeable, helpful and accommodating and we have developed a strong relationship with them. They are always responsive to any queries raised and strong lines of communication ensure our requirements are scheduled well in advance with products arriving on site in line with our programme of works.*

*We look forward to further strengthening our relationship in the coming years and see Passivent as a valued part of our robust supply chain."*

**Darren Kelly, TG Escapes Operations Manager**

Passivent offers natural and hybrid ventilation solutions for a broad range of sectors including education, commercial, leisure, healthcare and residential.



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