

TAMPINES CONCOURSE

This is a 3-storey building with green building approach including design for sustainable construction, tapping natural elements and harnessing innovations.



Tampines Concourse is the first in Asia Pacific to incorporate an innovative, indoor non-compressor fresh air cooling system for smart temperature and humidity control. The system uses water as a cooling agent instead of ozone-depleting chemical refrigerants to cool incoming outdoor air through a natural heat exchange process. Eliminating the need for a compressor, the highly energy efficient fresh air cooling system maximises the use of fresh air and reduces energy consumption. It is capable of saving an equivalent of 21 tonnes of carbon emissions annually.

Structural elements are all sustainable and of recycled materials. This project is the first in Asia to use green concrete in structural elements and it contributes to reducing Carbon Dioxide (CO₂) emission, pollutants emission and energy consumption. Other green features include double glazing and facade greenery to reduce solar heat gain, use of low Volatile Organic Compounds (VOCs) paint for all interior surfaces, use of solar tubes and light shaft to introduce natural lighting for atrium and toilets.