



Commercial

Jaguar / Land Rover Academy



The front entrance of the Jaguar / Land Rover Academy in the United Kingdom



The grey SolarWall® solar air heating system integrated into the southern façade.

Background

When Jaguar / Land Rover set out to renovate an existing building in Leamington Spa, England into a technical training academy (used to train dealership staff on new tools and techniques for servicing their vehicles), one of their primary goals was to showcase sustainability in building design.

The academy is part of a company wide environmental policy to highlight for their dealers various methods of incorporating sustainability into site operations. The new facility will also serve as an example of how to enact carbon reduction measures whenever possible.

Working in conjunction with the CA Group (Conserval's UK SolarWall® representative), a SolarWall® solar air heating system was chosen to meet the building's sustainability and fresh air ventilation goals.

Solution

A grey colored SolarWall® system, encompasses 268m² (2885ft²) of collector area, was seamlessly integrated into the existing south wall, which made for an aesthetically pleasing appearance.

The academy required up to one air change per hour, while maintaining a safe and comfortable working environment of 20°C. This made the SolarWall® solar air heater, which uses the sun to pre-heat building ventilation air, the ideal solution for Jaguar / Land Rover's fresh air ventilation needs.

Results

The SolarWall® system offsets the traditional heating load by using the sun instead of fossil fuels to heat buildings. This enables clients to not only save money but also the environment, which was an essential consideration for Jaguar / Land Rover. The SolarWall® system at the academy is projected to save 80,000kWh of energy per year and displace over 13 tons of CO₂ on an annual basis.



Inside the Jaguar / Land Rover Academy; SolarWall ducts distribute the solar heated air throughout the building.

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