

Case Study

For Your Perfect Indoor Climate



Key Benefits

- ✓ A choice of colours and compositions mean discreet air outlets blend beautifully into the tasteful interior design.
- ✓ Comfortable, virtually draught-free cooling, heating & outside air ventilation all in one system.
- ✓ Maintains the original features of the Grade One listed building. No radiators, large grilles or wall mounted units required.

Discreet Heating, Cooling and Ventilation for Listed London Library

The problem: Wandsworth Borough Council were converting their Grade One listed building and museum into a library. They needed a cost effective and flexible heating, cooling and outside air ventilation system that could be installed with minimal disruption. The system had to be unobtrusive in order to maintain the original features of their beautifully renovated building.

The solution: Members of Wandsworth Council first saw The Ingenious Air Small Duct System at an exhibition in 2008. They were impressed by the discreet air outlets and subsequently attended a CIBSE CPD presentation to find out more. They set up a feasibility study and secured architectural approval that the system would maintain the aesthetics of their building. As a result, the Ingenious Air Small Duct System was specified for their project.

Four systems, with total cooling and heating capacities of 45 kW and 80 kW respectively (one system is heating only) were installed. Each system handles 50% outside air. Each system is paired with an energy efficient, sustainable, inverter driven air source heat pump. A low pressure hot water (LPHW) heating coil is incorporated in each air handling unit. Effective multiple-zoning allows individual time and temperature control for the main areas.

The induction method of air delivery means that temperature control is comfortable, even and virtually draught-free. Discreet air outlets positioned in the walls and floors free up valuable space, as there are no wall mounted units or radiators. Different compositions complement the interior design of each area: standard white air outlets blend with the white paintwork, whilst brushed aluminum air outlets provide a stylish look under the windows.

Follow up: The library manager and staff are delighted that the aesthetics of the building have been maintained. They are enjoying the comfortable environment provided. The new library was officially opened by the Mayor of London, Boris Johnson, on October 21st 2009.

Wandsworth Borough Council

"All expectations were met. The aesthetics of the listed building were maintained due to the unobtrusive, draught-free and quiet Ingenious Air Small Duct Systems. The library manager and staff are pleased with the environment provided by the energy efficient heat pumps."



The Ingenious Air Small Duct System - WINNER of UK 'Air Conditioning Product of the Year' RAC Industry Cooling Awards 2015

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