



## Library Case Study

The discrete Hi-Velocity Mini Duct System blends perfectly into this library and listed building

### Client requirements

Wandsworth Borough Council required a cost effective heating, cooling and fresh air ventilation system when their Grade one listed building and museum was converted into a library. A flexible system was needed to blend inconspicuously into the renovated building with minimum disruption, while maintaining the original features.

### The solution

Members of Wandsworth Council first saw the Hi-Velocity system at an exhibition in 2008 and were impressed by the discrete outlets. They subsequently attended a Cooling & Heating Sales Ltd CIBSE CPD presentation to find out more. Hi-Velocity was specified for the project following an exhaustive feasibility study and approval from the architects that the system would maintain the aesthetics.

Four 101 HE Hi-Velocity systems, with total cooling and heating capacities of 45 kW and 80 kW respectively (one of the systems is heating only) were installed. Each system handles 50% fresh air and operates in conjunction with efficient, sustainable energy, inverter driven air source heat pumps, together with the LPHW heating coil incorporated in the air handling unit.

Effective multiple-zoning allowed individual time and temperature control for the main areas. Floor and wall space was optimised as there were no radiators or large grilles to accommodate. Minimal change was required to the listed building as the mini ducts are easy to pull through walls, floors and ceilings.

A variety of discrete air outlets were positioned in out of traffic areas in the walls and floors to eliminate draughts, save space and complement the décor of each area. Polished chrome outlets were chosen for under the windows.

### Follow up

The library manager and staff are delighted that the aesthetics of the building have been maintained and are enjoying the perfect environment provided. The new library was officially opened by the Mayor of London, Boris Johnson, on October 21<sup>st</sup> 2009.

#### Wandsworth Borough Council

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

**Hi-Velocity**  
Systems™



### Benefits

- Draught-free
- Heating and cooling
- Discrete
- Easy to install
- Space saving
- Energy efficient
- Fresh air option
- Quick temperature response
- Air purification option

### Installed in

Offices • Luxury houses  
 Apartments • Hotels • Schools  
 Factories • Laboratories  
 Hospitals • Doctors surgeries  
 Universities • Restaurants  
 Shopping centres • Theme parks  
 Leisure centres • Libraries  
 Home cinemas • Care homes  
 Commercial kitchens



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