

Case Study

For Your Perfect Indoor Climate



Key Benefits

- ✓ Flexible positioning of the air handling unit solves the issue of limited space.
- ✓ Smaller ducting fits into restricted spaces that standard ducting cannot reach.
- ✓ Discreet air outlets blend beautifully into the stunning interior design.
- ✓ Comfortable, virtually draught-free cooling and heating works in harmony with underfloor heating.

A Luxury Indoor Climate for Luxury Penthouse Apartments

The problem: Sager Group Ltd, the property developer, wanted to add comfort cooling and heating to five penthouse apartments in their multiple storey project in North London. They needed a discreet system that would complement the tasteful interior design and fit into the limited space available within each apartment. The system also needed to work in tandem with the underfloor heating.

The solution: One Ingenious Air Small Duct System was installed in each penthouse. Each system was paired with a sustainable and efficient heat pump. Smaller sized, flexible ducting and multiple positioning options solved the issue of restricted space: the heat pumps and air handling units (core of the Ingenious Air System) were installed on the roof.

The controls were connected to the under-floor heating, enabling the two systems to work in harmony. When the Ingenious Air System is in cooling mode, the under-floor heating is prevented from switching on. In cold weather, the Ingenious Air System can run in heating mode to heat the apartment quickly. This keeps the occupant warm while the under-floor heating slowly reaches set temperature. Each room has a dedicated seven-day timer digital display temperature controller. Discreet air outlets blend beautifully into the interior design.

Follow up: The penthouse occupants enjoy perfect indoor climate control and feel comfortable all year round. One tenant took the opportunity to add the high specification air purification module as a retrofit after moving in. This has significantly improved their allergy symptoms.

After build completion, the apartments on the floors below the penthouses were found to be uncomfortably hot. These apartments had underfloor heating but no cooling. One apartment has since had an Ingenious Air Small Duct System successfully installed. This has solved the problem and the apartment no longer overheats. Ingenious Air Small Duct System installations on the other apartments are pending.

Stuart East, Director, John Noad (Building Environmental) Ltd: "We specified five Ingenious Air Small Duct Systems for installation within the penthouse apartments at the award winning Fortune Green Road development in Hampstead. The level of comfort achieved has proved to be second to none and noise levels are very low when compared with other forms of air conditioning."



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

Call for a FREE quotation today on **0800 7316352 / 01268 544530** or email **info@ingenious-air.co.uk**. Find out more at **www.ingenious-air.co.uk**. Ask about our product design training and installation training.

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