

# Case Study

## CHANGE IS IN THE AIR

INGENIOUS AIR



### Key Benefits

- ✓ Smaller ducting fits into restricted spaces that standard ducting cannot reach.
- ✓ Discreet air outlets blend beautifully into the stunning interior design.
- ✓ Stylish and smart NEST Learning Thermostats.
- ✓ Comfortable, virtually draught-free cooling.
- ✓ Heating and cooling in one system.

### Discreet & Eco-Friendly Heating, Cooling & Outside Air Ventilation

#### The Problem:

94 Baker Street, site of the Beetles Apple Boutique from 1967-8, required heating, cooling and outside air ventilation for five newly refurbished apartments on the upper floors. Priorities were a discreet, energy efficient option with accurate temperature control. The process of changing from offices to apartments presented installation challenges: individual fan coils required drop-down bulkheads, which would spoil the aesthetics of this luxury development in a historic building.

#### The Solution:

Five HE 71 Ingenious Air® Small Duct Systems, each paired with a 10kW air source heat pump, were specified to deliver cooling, heating and outside air ventilation. Fewer components than the usual fan coils option gave the installation a lower carbon footprint.

The indoor units were sited in a specially made void outside each of the five apartments. This reduces disruption during future maintenance programmes. The flexible nature of the system overcame ducting issues caused by space challenges: bespoke flat plenum ducting, connected to attenuated mini-ducts, was designed specifically for the project. This negated the need for drop down bulkheads and enables the system to blend seamlessly into the interior.

Stylish Nest Learning Thermostats achieve exceptional, individual room climate control with each of the three thermostats in the apartment being controlled via a single iPad. The Nest learns personal schedules based on day-to-day routines and then programs to provide optimal comfort. Its AutoAway™ technology automatically turns to an energy-efficient 'Away' temperature when it senses no movement. This ensures the building is not heated or cooled unnecessarily.

#### Follow Up:

The occupants of 94 Baker Street are feeling comfortable. Room temperatures are even and tailored to their lifestyle, ensuring maximum efficiency. Discreet air outlets free up wall and floor space inside the apartments and blends beautifully into the stunning interior design.