

Case Study

For Your Perfect Indoor Climate



Key Benefits

- ✓ Comfortable, virtually draught-free heating & cooling in one system.
- ✓ One system replaces 8 fan coil units, reducing carbon footprint & maintenance requirements.
- ✓ Routine maintenance is carried out away from the resident's rooms, reducing disruption.

Optimum Comfort for Patients in Renovated Care Home

The problem:

The owners of Bonhomie House Nursing and Residential Home in Southampton needed a new heating and cooling system. The comfort and safety of the residents, who have a range of physically and mentally debilitating illnesses, was their top priority. It was essential to create the perfect indoor climate, without any distressing draughts or potentially dangerous hot surfaces. Individual time and temperature control for each room was essential.

The solution:

Eight Ingenious Air Small Duct Systems were installed to provide individual climate control for sixty four rooms. Multiple control zones meant that one system could be used instead of eight fan coil units. This means one system supplies eight separate time and temperature controlled areas - including patient rooms, meeting rooms and nurses areas. This significantly reduced the carbon footprint for the installation and ongoing planned maintenance. There are far fewer components overall - including fan motors, filters, electrical connections and refrigerant pipe work.

Each system was paired with a Mitsubishi inverter condensing unit for maximum efficiency. A back-up hot water service was also added to each system to keep the room temperature high in colder weather.

The air handling unit (core) of each Ingenious Air Small Duct System was installed in a variety of suitable locations such including the corridor ceilings. This hugely reduces the disruption and cost of routine maintenance. It can be carried out without having to enter the residents' rooms.

The induction method of air delivery ensures that heating and cooling delivery is virtually draught-free. Air temperatures are even without hot or cold spots. Everyone feels comfortable, which is especially important for immobile patients and those too unwell to explain if they are too hot or too cold.

Follow up:

The owner is so delighted with the Ingenious Air Small Duct System that he has since installed the system in his own home.

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



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