

The Unico System

Small Duct Heating, Cooling and Ventilation



July 2016

Case Study - Belgravia, Residential Property



Background

The owners of this prestigious London property tasked project manager Rod Pyke of Blue Interiors to find the most discreet heating and cooling system that would not compromise the new interior and architectural features of this period property.

After researching “discreet air conditioning”, he discovered the Unico System and approached Quantum Group to provide a system to meet the heating and cooling demands of the new living space.

During the full renovation, the ceiling were slightly dropped to allow access for the main ducts. This provided enough scope for Quantum Group to design the system into an extremely challenging building.



Discreet Air Comfort...

The most discreet heating and cooling system for high end residential homes

“To see a design on paper is one thing, to actually fit it in and not see it is another.

The supply outlets fit seamlessly into the space and the response of the system is extremely quick and impressive.”

- Rod Pyke, Blue Interiors



Discreet supply outlets compliment the interior space.

Solution

Due to restraints in the building, the whole system was first designed and modelled in 3D to ensure every component would fit into the space. Two 14kW Unico Systems were installed in the loft space with main ducts running to each of the four floors below.

All supply outlets were plastered into the ceilings, leaving just discreet 50mm holes delivering the conditioned supply air.

Return air from the rooms was done through bespoke transfer grilles above the doors and returned to the Unico Systems via the central staircase.

Both Unico Systems are interfaced with Mitsubishi Electric heat pumps and controlled through the Crestron BMS System.

The Unico System provides the perfect heating and cooling solution for this high end residential property.

Benefits

- Even temperatures across the rooms
- NR20 Sound Level Rating. Very quiet
- Zone control options
- Discreet supply outlets
- Flexible design and installation
- EC Variable Speed Control

Summary

Installation Date:

January 2013

Contractor:

Richline Mechanical

Unico System:

2 x 14kW with DX coil and 60 room outlets

Energy Source:

2 x 14kW Mitsubishi Electric Inverter Heat Pumps

Controls:

Fully integrated with Crestron BMS system.

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