

Restoration transforms iconic building into inspiring venue

Air Conditioning



The installation of air conditioning and ventilation into an iconic London building has helped transform the former headquarters of London local government into an inspiring conference venue overlooking Big Ben and the Houses of Parliament.

Case Study

County Hall, London

“ This was a fabulous project to work on not only because of the iconic nature of the building but because of the high levels of quality and finish demanded by the client ”

Steve Kelly
Owner, CS HVAC Ltd

The majority of the third floor and the entire fourth floor of County Hall has been transformed by the client to provide the largest conference and meeting space in the building, all air conditioned with a heating, ventilation and air conditioning system designed, installed and commissioned by CS HVAC Ltd.

County Hall is now famous for the London Sea Life Aquarium, the London Dungeon and the London Eye visitors centre and also includes two hotels, but many parts of the complex have remained empty since the 1990's.

The main six storey building, designed in an Edwardian Baroque style, was opened in 1922 by King George V. It served as the headquarters for local government for over 64 years and was used by Ken Livingstone, the then leader of the Labour controlled Greater London Council to challenge the Conservative government of Margaret Thatcher, directly across the river in the Houses of Parliament.

“This is a really historic building which made the design and installation complex to say the least,” added Steve Kelly. “We had to work around the listed elements of the building and design the system to match the exceptional interior finishes for these beautiful spaces.

“Our team also had to stick to strict deadlines, working around other building contractors so timing was a key factor to ensure we could fit all necessary pipework and fan coils in the ceiling voids before the interiors were finished.”

The result of the refurbishment is a stunning multi-use event space of 68,000 sq ft, right next to the River Thames, with easy access to both Waterloo and Westminster.



Case Study

Throughout the venue, the building has been sympathetically restored using many original features such as the beautiful parquet flooring, coupled with high quality design in classic copper and velvety tones

County Hall, London

The facility offers a range of rooms, including a number of large suites for up to 400 which can combine into the multi-purpose Thames Suite for 900 guests, looking out over the river to Big Ben and the Houses of Parliament.

In addition, the venue offers a range of smaller meeting and training rooms, as well as exclusive use opportunities and private dining options.

“The customer was looking for one manufacturer able to supply all of the equipment needed whilst delivering the best efficiencies, support and warranties,” added Steve Kelly. “They also wanted a system that could be easily linked centrally removing the need for an expensive Building Management System.”

Seven City Multi R2 outdoor condensing units were installed on the roof which deliver simultaneous heating and cooling to 72 fan coils units throughout the third and fourth floor. This ensures that the rooms deliver absolute comfort for guests in the most energy efficient way possible.

A Lossnay Kanzen 750 air handling unit and 42 Lossnay RVX mechanical ventilation with heat recovery (MVHR) units were also installed by CS HVAC to provide energy efficient fresh air to the conference suites. Lossnay systems bring fresh air into the spaces whilst recovering up to 80 per cent of the otherwise wasted energy.

“For the air conditioning, we utilised valved K-Con branch controllers, which helped save time on site,” explained Michael Elkan, CS HVAC installation manager for the project. “The full system is controlled with the superb AE200 controller which gives the customer advanced control of each zoned space within the complex from one central point.



The conference facilities on offer at County Hall now boast some of the best facilities in the Capital, combined with one of the most famous views in the world

“The flexibility of the City Multi system helped us install the air conditioning in phases allowing us to work in conjunction with the interior fitters and the fact that we only had to install two pipes between each branch controller and indoor unit definitely helped us cope with the small ceiling voids in some crucial areas.”

The added advantage for the client is that not only do they get low running costs with a fully controllable system, working with CS HVAC has added an extended warranty as the company is a **Business Solutions Partner (BSP)** with Mitsubishi Electric.

Installation Summary

Equipment:

- 7 x City Multi R2 Outdoor Condensing Units
- 72 x City Multi Fan Coils Units
- 1 x Lossnay Kanzen 750 air handling unit
- 42 x Lossnay RVX MVHR Units
- 1x AE200 Centralised Controller

CITY MULTI



City Multi R2 Unit



City Multi Fan Coil Unit

Lossnay



Lossnay Kanzen Unit



Lossnay RVX Unit

CONTROLS



AE-200E

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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air-conditioning equipment and heat pump systems contain a fluorinated greenhouse gas: R410A(GWP:2088), R32(GWP:675), R407C (GWP:1774) or R134a (GWP:1430). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows: R410A(GWP:1975), R32(GWP: 550), R407C (GWP:1650) or R134a (GWP:1300).



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