

Case Studies

For over 20 years Bonair Ltd has been providing specialist Mechanical Services satisfying the demands of Commercial Buildings and Industry in the UK. We specialise in providing turnkey solutions in the field of air-conditioning and ventilation from design through installation and life cycle maintenance in a wide variety of buildings such as Office blocks, Hotels and Hospitals as well as Industrial Factories, Commercial Kitchens and Residential Properties. Below is a list of recently completed projects showing the variety of work undertaken.



Retail & Commercial[Click Here](#)



Hotels & Restaurants[Click Here](#)



Residential Projects[Click Here](#)

Retail & Commercial



**The Cromwell Hospital
London SW5**

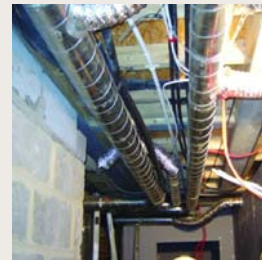
The Project:

Refurbishment of the Radiotherapy department installing a new type of Tomography cancer treatment machine. Because of the near instantaneous nature of the cooling load required in the treatment room, the system had to be able to react very quickly to any increase in load. Several other areas also required cooling such as the transformer room and other treatment and administration rooms.

The Solution:

Bonair Ltd installed a VAV system with a variable speed Air Handling Unit providing large volume of cooled and heated air to a number of VAV boxes fitted with motorised dampers feeding air into the treatment rooms via swirl diffusers. Other areas were fitted with split systems with the indoor units either exposed or ducted.

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Restaurant Fit Out



**L'Atelier De Joel Robuchon
West Street, London WC2H**

The Project:

A complex of two restaurants and a bar with back of house areas arranged over five floors in the centre of London. Both restaurants have open cooking kitchens providing Michelin star meals cooked and presented in front of the customers. The Mechanical Contractor was required to provide complete mechanical services executed within a very short and demanding building fitting program.

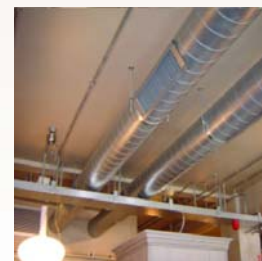
The Solution:

Having previously delivered other projects for the same client on time and on budget, Bonair Ltd was chosen as the Mechanical Contractor providing Airconditioning, Ventilation and all Plumbing services. During the program of execution, close coordination at all stages with a highly organised design team was necessary.

Bonair Ltd's highly experienced engineering team ensured the successful completion and commissioning of all the services during a most demanding and challenging 16 week building program.

Mechanical services provided included a chilled water system providing cooling to the restaurant area via All Fresh air 'Air Handling Units' with heat recovery, The supplied air is balanced against the Kitchen and general Extraction systems. The Entrance foyer and Bar areas were served with independent Direct Expansion Heat Pump systems. Under Floor Heating was provided in the 4th floor offices. All water services were provided via a boosted system with boilers and calorifiers serving all kitchens and toilet areas. All above ground drainage was air tested to the satisfaction building control officer. All systems were independently commissioned with as built drawings and full hand over documentation provided. All systems are now being looked after by Bonair Ltd. under full annual service agreement.

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Residential



**Flat at Cadogan Square
London SW1**

The Project:

A highly specified residential apartment in a listed building in central London requiring air-conditioning to some of the rooms, limited space for outdoor equipment with planning approvals required at all stages.

The Solution:

Bonair Ltd was asked by the main contractor, having successfully completed other similar projects for them to design and install a high quality concealed air-conditioning system with particular reference to very low noise levels next to the outdoor unit. A ducted multi split system with infrared control was installed with an acoustic enclosure around the outdoor unit. A letter of commendation was received from the interior design team.

“ Dear Louay,

I just wanted to drop you a line to say how impressed I have been with the installation of the Comfort Cooling at Cadogan Square.

It has gone in the minimum of fuss and is running efficiently and very quietly even before the sound attenuation has been fitted. All in all it has worked extremely well and I will be recommending you and the system in future. ”

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