

## Memo

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Project: UCL Lease Exits – Bidborough House

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## Bidborough House – External Plant

As part of the works to Bidborough house, a number of patient consultation rooms are to be fitted on ground and first floor of the east wing. In order to keep the indoor air quality at a safe level for patients and reduce the risk of airborne infections, these consultation rooms require an enhanced ventilation rate of 20 air changes an hour.

Due to the increase in the required ventilation rates required in these spaces, it is not possible to solely utilise the existing system, which is running at full capacity. Therefore, in order to meet the space requirements a supplementary system is proposed on each floor. This consists of two air handling units, housed within plantrooms on each floorplate. These units require ductwork connections to atmosphere to intake fresh air and also exhaust contaminated air from the spaces. To mitigate the impact of these, we are proposing that this ductwork is mounted to the underside of the first floor slab, in the space behind the car park screen.

In addition, the air handling units need to be provided with DX coils, to protect the temper the supply air in peak summer and winter months. These require connections to 2no. external condensers for each unit. To mitigate the visual impact of these we are also proposing that these are located within in the space behind the car park screen and will be wall mounted as indicated on the MEP drawings.