NOISE IMPACT ASSESSMENT

Specsavers, 12 Colas Mews, Kilburn, London NW6 4LH

1.0 INTRODUCTION

1.1 Overview

This statement is in support of the above site for:

Full Planning: Proposed 3no. new outdoor AC condensing units, to rear elevation.

Use: The unit is situated away from the high street. It is currently an office/storage area serving the nearby Specsavers on Kilburn road. Following the minor refurbishment works the unit will continue its current use (no change of use.)

1.2 Noise Assessment, Guidance

The proposed design and location of the AC units are not viewed as a *'more significant scheme'* as the proposal will not generate *'significant noise by way of an industrial process such as grain drying, energy generation such as wind turbines or biomass boilers'* as the proposals are only for the net gain of 3no small modern AC units to serve the retail store interior. Therefore planning guidance asks that we provide the following information for consideration as a part of the required noise assessment:

1) Plans & Elevations showing the location of any external equipment.
2) Detailed drawings of the design of the equipment, pipework and flues, including full details of its external appearance.
3) The acoustic characteristics of the equipment (whether internal or externally mounted) and measures proposed to minimise the impact of noise on neighbours (including noise insulation and hours of operation.)

2.0 DETAILS OF THE PROPOSAL

2.1 Plans

Please refer to project relevant drawings for plans, elevations and details of the proposals.

2.2 Details

Please refer to project relevant drawings for plans, elevations and details of the proposals.

Amount – 3no. new outdoor condenser units, wall mounted externally.
Layout – 3no. units mounted to wall, in a row, at first floor level, to the rear elevation.
Scale – See specification below for details.
AC Units Specification - https://www.daikin.co.uk

C/U-1 – Daikin RZASG-71 – Dims: H990 x W940 x D320 Weight 60kg, Sound Pressure 46dba @1m
C/U-2 – Daikin RXM-60 – Dims:H550 x W765 x D285 Weight 38kg, Sound Pressure 43dba @ 1m
C/U-3 – Daikin RXM-25 – Dims:H550 x W740 x D285 Weight 45kg, Sound Pressure 43dba @ 1m

The proposed AC units are essential to ensure temperature and fresh air flow is maintained within the interior. Our client always seeks the advice of independent Air Conditioning specialists, to provide the most efficient AC installation, aiming to use the minimum units possible to comply.

2.3 Noise Impact Assessment

The proposed outdoor AC units are to be positioned to the rear of the building. There are service yards and car parks to the rear of the application site, as this is the service area and drop off area for deliveries for many surrounding units. This area at the rear can be quite busy/noisy during working hours with vehicles coming and going throughout the day, to all the neighbouring properties.

There are no residential properties in close proximity that overlook the rear of the application site, only commercial and retail properties, as they are located within the commercial / retail district.

There are also many other AC units installed to the rear of the neighbouring units and the proposed units are much smaller and modern designs that are much more efficient and quieter as reflected in the noise data provided in this document.

The Units will be floor mounted on brackets. The brackets are fitted with rubber anti-vibration pads that are standard to all modern AC mountings to help reduce vibration output.

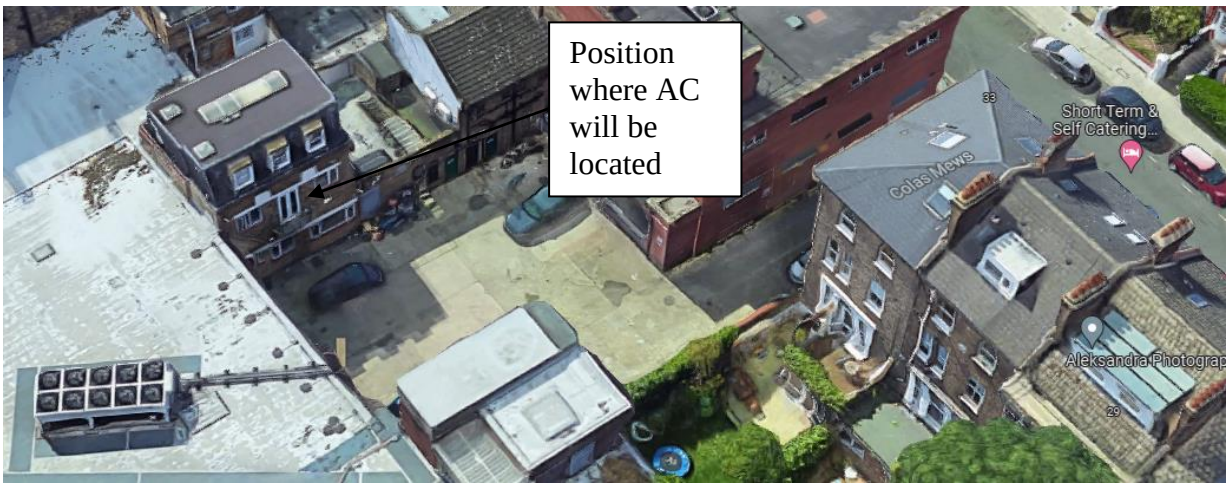
The proposed units will only operate during the units working hours 08:00 – 18:30 and will not operate overnight. The fans within the AC units also do not operate continuously, only when heating or cooling, therefore they are not operational for much of the working hours specified.

The condenser units only circulate fresh air, they do not ventilate any chemical by-products. The new units will be significantly quieter than the units that are being replaced as they are modern energy efficient designs and they are only small daikin installations, with a max noise pressure of 46dba when measured at 1m distance, which is significantly lowered at 10m distance.

2.4 Summary

It is therefore our belief that there will be no significant noise impact created by the installation of the new units to the roof of the building, due to the modern equipment that is being proposed, the fact the units will only be operational during working hours (not in the evening) and the careful consideration for the units location, to the rear of the property within a service area opposite car parking areas, and they will also not be in any direct public view when viewed from ground level.

2.5 Photos



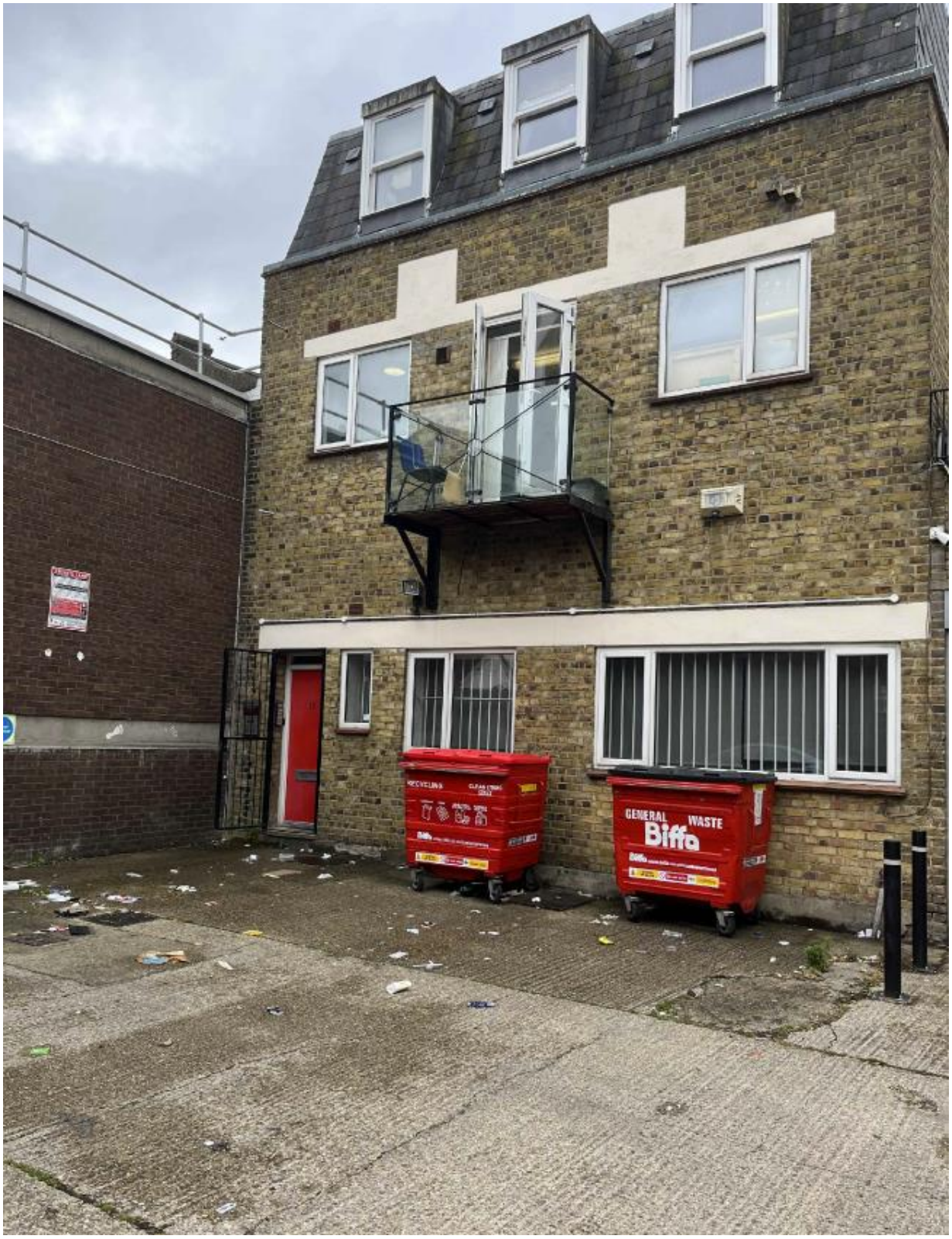


Photo of the rear elevation as existing

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STRUCTURED CREATIVITY

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