



Conditioned Environment

Specialists in Air Conditioning Installations and Building Services

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REPORT ON NOISE SURVEY FLAT 11, 35 REGENT HEIGHTS, ST EDMUND'S TERRACE LONDON, NW8 7QN

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Brief

To provide a report on the background noise levels at Roof level.

Location

The position of the proposed air conditioning units are to be placed within a new louvred enclosure on the roof above the top floor. The location is set back from the building line.

The area around the block of flats is residential. This property is at the highest point on St Edmunds Terrace and stands alone from the surrounding buildings.

Equipment Proposed

3x Daikin 5MXS90E Multi split
Heat Pump Inverters

Sound Recording

A (BRUEL AND KJAER) 2236E sound level recording meter was used to record noise levels. The test was carried out over a period of 4 days on a 24 hour basis. Logging time every 10 minutes.

The recording head was placed at roof level on the raised ladder. In this location we consider we are providing a true background noise level.

Recording Range: 30-110 dB (A)
Frequency WGT: A
Calibration: 04-01-08
Start Date: 22-01-08
End Date: 25-01-08

As the proposed equipment will be operating in a residential building we have shown the levels recorded in a 24 hour basis.

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The recorded detail shows the highest level to be 61.5 db (A), this being in the afternoon periods. The lowest level was 42 db (A) during the early hours of the morning. All these levels are on the LAF 90 scale.

We have detailed separately a chart showing these recorded levels on a day to day basis.

From our on site observations we have established that the area surrounding the property is totally residential. Due to the open aspect of the area, the sound from the adjoining roads causes the background noise level to remain higher than expected.

We visited the area during the day hours and at 22.00 hours, at all times the traffic was observed to be active in both the Avenue road and Prince Albert road.

The recording shows constant levels of noise during the day and night hours. The LAF 90 scale shows levels between early 40's to late 50's db (A). We have recorded high peaks during all logged periods over 90 db (C). These we consider are created by traffic and construction noise.

We have considered the location and the closest point of possible nuisance to the new enclosure location. The nearest point of possible nuisance is the top floor of the block of flats to the west of Regent Heights with the screening of the enclosure no direct line of sight will be established. The block in question is some 45mts away from the proposed location.

The total noise generated by the proposed equipment is calculated to be 51dB(A) at 1mt.

The local authority requirement is that the noise effect caused by the equipment will be 10dB(A) less than the established background level of 42dB(A) at the point of nuisance.

It is our consideration that the louvred enclosure is acoustically treated to reduce the horizontal breakout. The louvres are to be no less than 150mm deep with acoustic media lining the blades.

Bearing in mind the location and the separation of the plant from adjoining building, we consider that the new location with the new noise mitigation system in place will achieve consensus with Local Authority Policy.

Yours sincerely

A handwritten signature in black ink, appearing to be 'D Coulson', followed by a horizontal line extending to the right.

David Coulson

LAF 90 AVERAGING LEVELS FOR
FLAT 11, 35 REGENT HEIGHTS,
ST EDMONDS TERRACE,
LONDON, NW8 7QN

	TUES JAN	WED JAN	THURS JAN	FRI JAN
HIGHEST RECORDED LEVEL IN 24 HOURS	59.5dB(A)	57.5dB(A)	58.5dB(A)	61.5dB(A)
LOWEST RECORDED LEVEL IN 24 HOURS	42.5dB(A)	42dB(A)	43dB(A)	43dB(A)