4th December 2023

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APPLICATION NO./ADDRESS:

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To whom it may concern,

I trust this message finds you well. I would like to acknowledge the receipt of the planning permission for the installation of the Air Source Heat Pump on behalf of my customer, and I appreciate your diligence in ensuring a thorough evaluation.

Regarding the condition stipulating sound/vibration attenuation measures, we have developed a comprehensive scheme to address this requirement and ensure compliance with MCS standards. Our proposed measures include the following:

Fence Installation

We plan to erect a solid short fence in front of the Air Source Heat Pump to mitigate any visual impact on the immediate neighbouring property by blocking the view from the nearest assessment window.

The fence would only stand so tall as to block the view of the heat pump location from the neighbouring window and would not stand taller than any existing fence on the property.

According to the MCS noise assessment guide, partially blocking the view of the heat pump from the nearest neighbouring window reduces the noise level by 5 decibels (dB) bringing it well below the MCS compliance level of 42db.

The noise assessment that has been carried out in accordance with MCS guidelines confirms a noise level of **43db**. By partially blocking the view of the assessment window to the heat pump location with a fence, this brings the assessed level to **38db** which is well below what would be considered MCS compliant and the general standard for air source heat pumps.

For reference, here are the standard levels of common sources of noise in this environment:

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Heat pumps	40 dB – 60 dB
Breathing	10 dB
Normal breathing	10 dB
Whisper	30 dB
Bird calls	40 dB
Running stream	50 dB
Normal conversation	60 dB
Air conditioning unit	60 dB
Vacuum cleaner	70 dB
Dishwasher	80 dB
Live rock music	110 dB

Additional Measures

Additionally, we will utilise rubber mounts for the Air Source Heat Pump, effectively dampening vibrations, and minimising operational noise.

The outdoor piping connected to the heat pump will be fitted with rubber components, further contributing to noise reduction.

This strategic use of rubber materials aligns with best practices for ensuring minimal disturbance to the surrounding environment.

Thank you for considering this information as we work towards a mutually agreeable solution.

If you require any additional documents, please do not hesitate to ask.

Kind regards,

Edan Sutton

Install Co-ordinator– Air Source Heat Pumps

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