



Heat Pump Noise Assessment

Client:	K. Forrest
Address:	35 Stamford Ave Royston SG8 7DD
Planning reference:	25/01664/FPH
Date of report:	12/08/2025

Heat loss estimate and heat pump selection

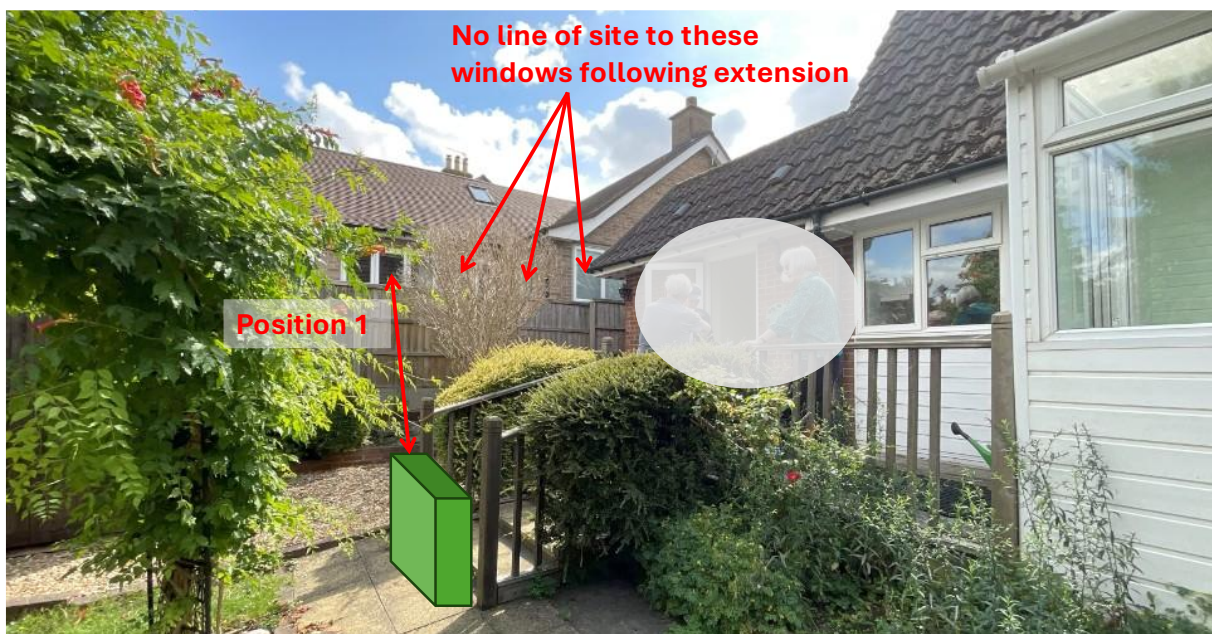
The heat loss 35 Stamford Ave following renovation and extension is estimated to be approximately 4.9 kW at the design condition of -2 °C.

Note: We have not completed a room-by-room heat loss assessment. A more accurate assessment should be performed prior to confirmation of the heat pump design and installation, and is required to comply with the Microgeneration Certification Scheme standards and to be eligible for the Boiler Upgrade Scheme.

Based on the heat loss estimate, the sound assessment below assumes a Vaillant Arotherm Plus 5 kW heat pump, which has a sound power level of 54 dB(A).

Assessment Position

- 1) The side window of 33 Stamford Ave. The distance from the centre of the heat pump to a point 1 m in front of this window is 7 m. There is direct line-of-sight from the heat pump to this point.



Noise assessment result - PASS

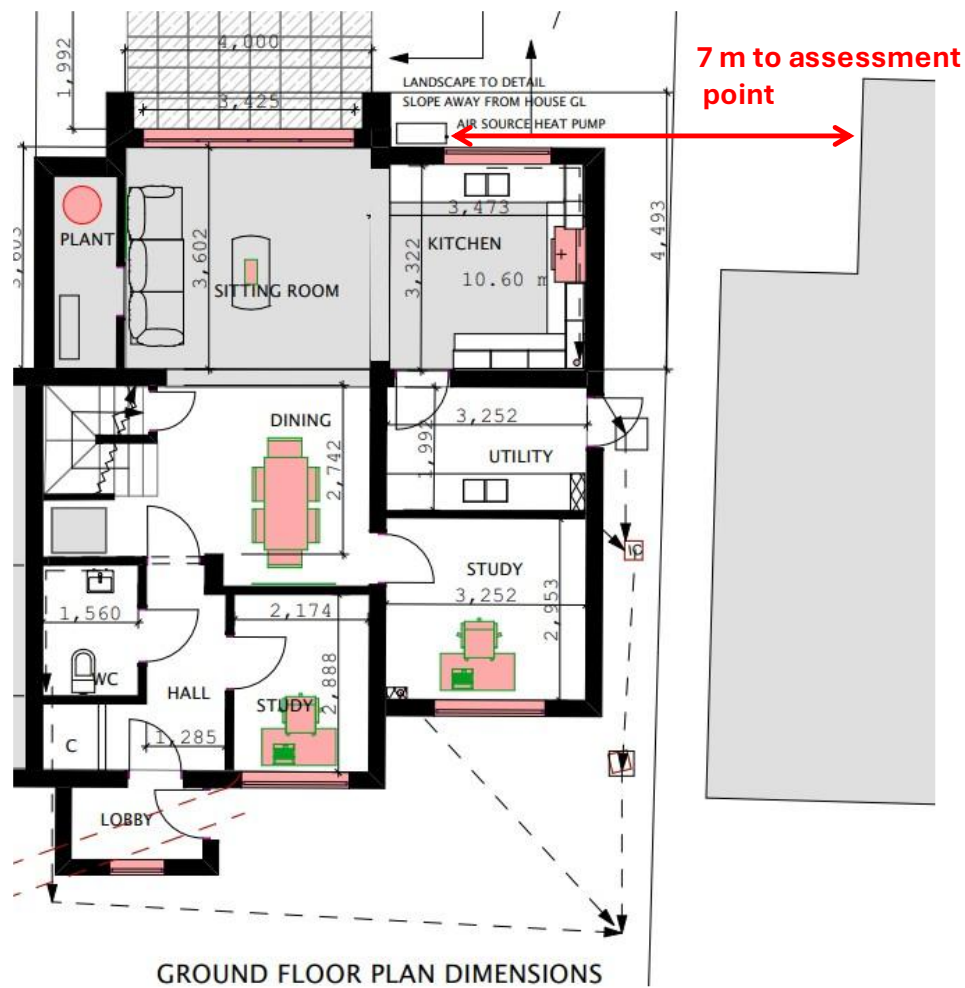
The selected heat pump complies with the noise criteria set out by MCS Standard 020 a) Issue 1.0. The heat pump is below the threshold for permitted development at the nearest window of the neighbouring property.

Heat pump noise assessment

Standard applied	MCS 020 a) Issue 1.0
Assessment completed by	Green Heat Coop
Site reference	35 Stamford Ave - 25/01664/FPH
ASHP Manufacturer	Vaillant
ASHP Model	AroTHERM Plus 5kw (VWL 55/6 A 230V S2)

Assessment position description:

The side window of 33 Stamford Ave. The distance from the centre of the heat pump to a point 1 m in front of this window is 7 m. There is direct line-of-sight from the heat pump to this point.



Sound pressure level

Sound power level	54 dB (A)
Vaillant aroTHERM plus 5kW VWL 55/6 - 0010037212	
Reduction due to distance	18.9 dB (A)
Reflective surfaces: three reflecting surfaces (Q=8)	
Distance (heat pump to assessment position): 7 m	
Reduction due to barriers	0 dB (A)
Full line of sight	
Total	35.1 dB (A)

Result

Pass

Maximum allowed value	37 dB (A)
Final result at assessment position	35.1 dB (A)

Disclaimer

We provide our consultation and the following summary for information and assistance with your decision-making. The heat loss information contained here is based on the information provided and should be confirmed with a room-by-room heat loss survey. Green Heat Coop does not provide financial advice, and what you do following your interactions with us is your decision.