ELITE RENEWABLES
Renewable Technology
Mechanical, HVAC & Architectural Services

Air Source Heat Pump Noise Level Calculation Form

Step	Instructions	MCS Contractors Results
1.	From manufacturers data, obtain the A-weighted sound power level of the heat pump. See “Note 1: Sound Power Level” below. The highest sound power level specified should be used (the power in “low noise mode” should not be used).	57
2.	Use “Note 2: Sound Pressure level” and “Note 3: Determination of directivity” below to establish the directivity “Q” of the heat pump noise.	Q8 - "Three Reflective Surfaces"
3.	Measure the distance from the heat pump to the assessment position in metres.	4
4.	Use table in “Note 4: dB distance reduction” below to obtain a dB reduction.	-14
5.	Establish whether there is a solid barrier between the heat pump and the assessment position using “Note 5: Barriers between the heat pump and the assessment position” and note any dB reduction.	Barrier (no view)
6.	Calculate the sound pressure level (see Note 2: Sound pressure level”) from the heat pump at the assessment position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)	33

Elite Renewables Ltd, Unit 20, Tait Road, Croydon, CR0 2DP

Tel: 0208 706 0056 E-mail: mfowler@eliterenewables.co.uk