MCS 020 - Planning Standards

Noise Assessment Calculations (Air Source Heat Pump)

# **Assessment Details**

Site Reference: J.Patton 2

**Pass** 

PROJECT DATE 04/11/2025

MANUFACTURER
Aira Group AB

ASSESSMENT TYPE
Single Heat Pump

MODEL

HPO-AW-6-230V-1.0

## **Assessment Position**

**Position Description** 

J.Patton 2

## **Sound Level Assessment Data**

POSITION	HP NAME	SOUND POWER (DB)	DIRECTIVITY (Q)	DISTANCE (M)	BARRIER (DB)	FINAL LEVEL
P1	HP1	57	4	10	-5	<b>29.53</b> PASS

# **Assessment Summary**

Positions Assessed: 1 Positions Passed: 1 Compliance Rate: 100%

**Pass** 

Overall Result

# **Position Images**

# Position 1

The HP is to be placed in a more secure position round the back of the property. This new location is more discreet and suitable for the customer. We estimate the location provides a distance similar to the original report. This new noise assessment also provided a much more accurate final decibel reading.

	Position 2				
N/A					

Position 3			
N/A			

	Position 4			
N/A				

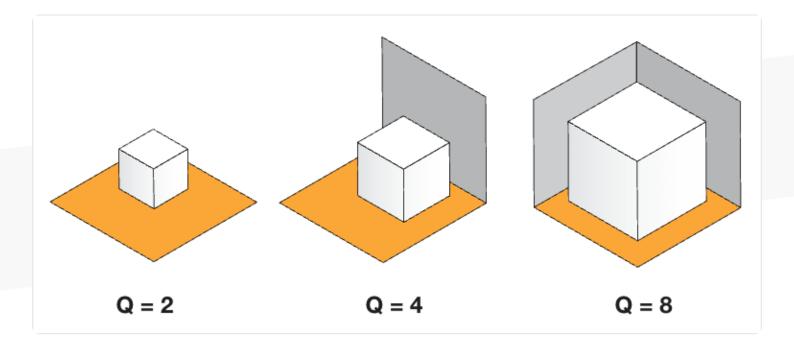
### **Assessment Criteria**

- Sound Power: Manufacturer specification (dB)
- Distance: Measurement distance (metres)

Final Level <= 37.1dB = PASS | Final Level > 37.1dB = FAIL

- Directivity: Reflected surface multiplier (Q)
- Barrier: Sound reduction from barriers (dB)

# **Barriers**



Barriers	
Is there a barrier between the heat pump and the assessment point?	
A solid barrier (e.g, brick wall or fence) completely obscures the installers vision of the assessment position from the top edge of the ASHP	<b>-10</b> dB
A solid barrier completely obscures the installers vision of the assessment position from the top or side edges of the ASHP, but moving a maximum distance of 25cm in any direction of the ASHP allows an assessment position to be seen	<b>-5</b> dB
It is possible for the installer to see any part of an assessment position from the top or side of the ASHP	<b>O</b> dB