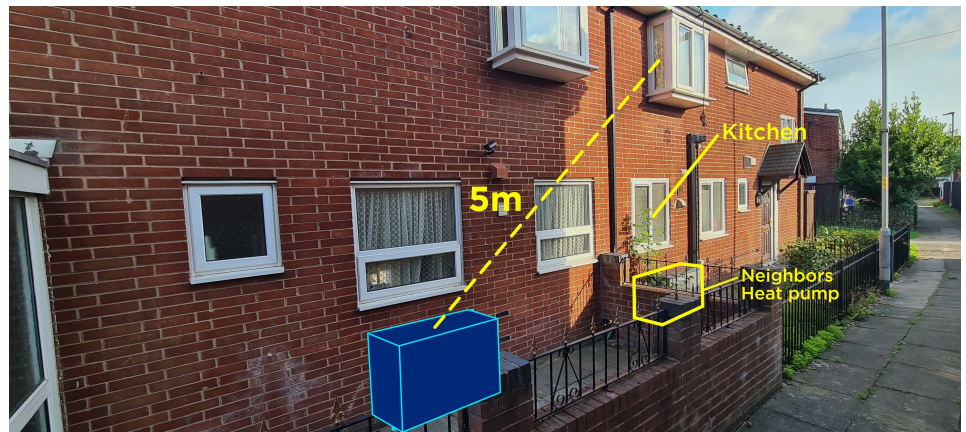


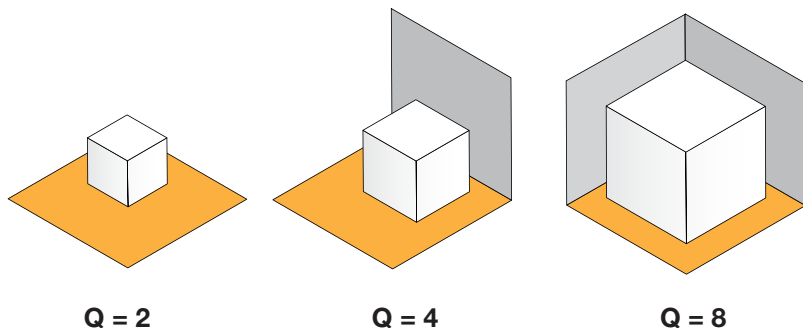
Assessment date:	21 May 2025	Assessment result:	FAIL
MCS Installation company:	British Gas		
Site Reference:	50271965 - David Fausset - M21 7RQ		
ASHP Manufacturer:	Daikin		
ASHP Model:	Altherma 9kW (EDLA09DA3V3)		

Assessment position description:

Neighbours bedroom



Step 1:	A-Weighted Sound Power Level from manufacturer	62.0
Step 2:	Determination of directivity (Q)	4
Step 3:	Distance from heat pump to the assessment position in metres	5
Step 4:	dB distance reduction	-19
Step 5:	dB reduction for any barriers between heat pump and assessment point	0
Step 6:	Calculated Sound Pressure Level (Step 1 + Step 4 + Step 5)	43.0
Step 7:	Assumed background noise level	40
Step 8:	Difference between background noise level and heat pump noise level	-3.0
Step 9:	Final decibel corrected sound level (< or = 42dB = Pass)	45dB



Decibel Correction (Step 9)	
Left column values apply to both positive and negative dB values	
Difference between the two noise levels (dB) (+/-)	Correction to be added to the higher noise level
0	3.0
1	2.5
2	2.1
3	1.8
4	1.5
5	1.2
6	1.0
7	0.8
8	0.6
9	0.5
10	0.4
11	0.3
12	0.3
13	0.2
14	0.2
15	0.1

Barriers (Step 5)	
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	-10
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	-5
It is possible for the installer to see any part of an assessment position from the top or side of the ASHP	0

	dB Distance Reduction (Step 4)													
	Distance in meters from Heat Pump (Step 3)													
	1	1.5	2	3	4	5	6	8	10	12	15	20	25	30
Q (step 2)														
2	-8	-11	-14	-17	-20	-21	-23	-26	-28	-29	-31	-34	-36	-37
4	-5	-8	-11	-14	-17	-19	-20	-23	-25	-26	-28	-31	-33	-34
8	-2	-5	-8	-11	-14	-16	-17	-20	-22	-23	-25	-28	-30	-31