Ryan Shilling - 31 Thirlmere Court, Hebburn, NE31 2RP

MCS 020(a) - Heat Pump Sound Calculator

Assessment Details

Heat pump model is Cosy6 and it is 4.8 metres from the assessment window.

There are 2 reflecting surfaces including the floor and it is fully seen.

The assessment position is one metre perpendicular to the centre of the closest habitable room.

Step	Instructions	MCS contractor results/notes
1	Assessment Date	01/05/2026
2	Assessment Position	Conservatory assessment window of No 32, rear elevation looking left (north)
3	A-weighted sound power level of the heat pump dBA	58.0
4a	Determine the directivity 'Q' of the heat pump noise.	Q4
4b	Measure the distance from the heat pump to the assessment position in metres	4.8
5	Determination of barrier correction - select barrier type	No barrier
6	Determination of barrier correction - select line of sight	Fully seen
7	Calculate Sound Pressure Level	39.5
8	Final Result?	Fail

Final Sound Pressure Level: 39.5 dB(A) - NON-COMPLIANT

This assessment follows the MCS 020 planning standard for heat pumps.
Maximum permitted sound level at assessment position: 37 dB(A)

Annotated Planning Application Photo