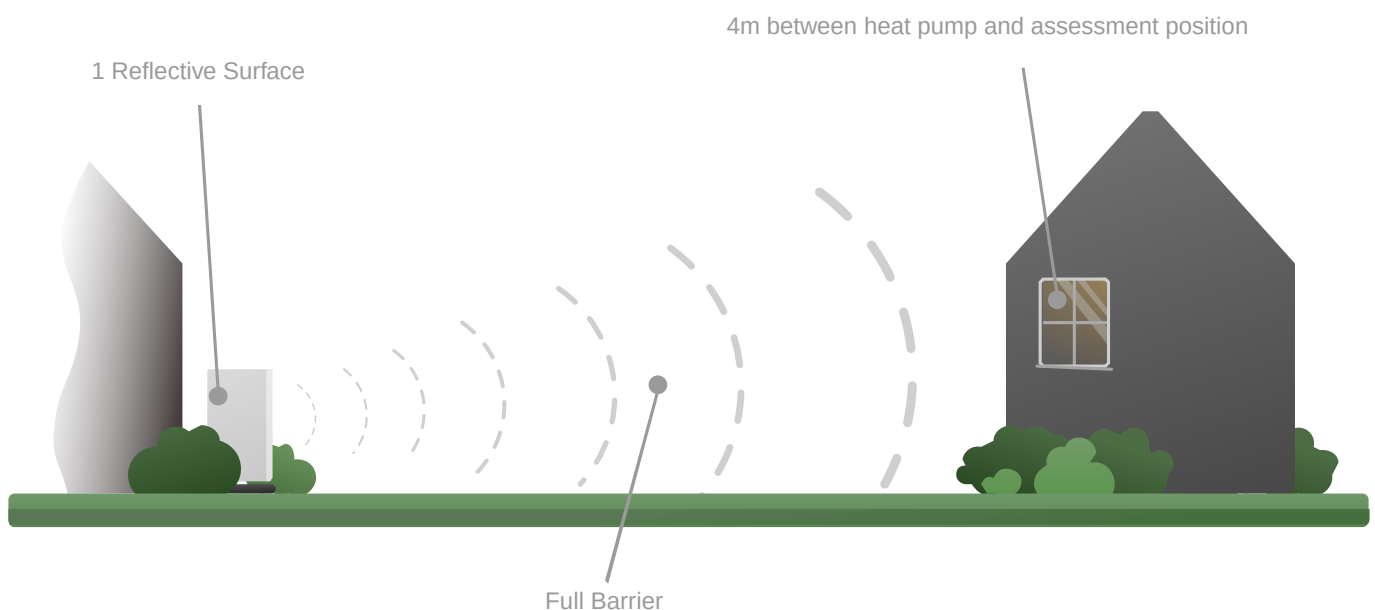


Sound check

Before your heat pump can be installed, we need to check that the noise it creates will not disturb your neighbours. Modern heat pumps are quiet, but are best not sited very close to doors or windows that may be open.

The sound check assesses how much sound from the heat pump will be transmitted to neighbouring properties. If the maximum sound level is less than 42dB then the installation can proceed without a planning application under the 'permitted development' rules.

Full details on the method used can be found in the MCS020 document on the MCS website.



MCS020 Sound Level Calculation

1. Sound power level	63.0 dB
2. Sound pressure level	Q2 (one reflective surface) dB
3. Distance from heat pump to assessment position	4 m
4. dB Distance reduction	-20 dB
5. Barriers between heat pump & assessment position	Yes
6. Sound pressure level @ assessment position	33 dB
7. Background noise level	40 dB
8. Difference between 6 & 7	7 dB
9. Decibel Correction	0.8 dB
10. Final Result	41 dB

Sound requirements met



The maximum sound pressure at the assessment position is expected to be 41dB. This is below the permitted limit of 42dB.