

Written Scheme and schedule breakdown for installation of ASHP

Customer details

Customer Name - Helen Davies

Customer Address - 346 Leymoor Road, Golcar, HUDDERSFIELD, HD7 4QL

Proposal

Aira Is proposing the installation of an aroTHERM plus 12kW & AI, Air Source Heat Pump at the above-mentioned address. This is a renewable alternative heating solution that will provide heating and hot water to the customer's home. Our proposal will help contribute to the government's targets of decarbonisation. During this installation, no groundwork or disruption to roads are affected and the use of heavy machinery is not required. The location of the heat pump has been carefully assessed and selected to be sheltered away from neighbours and the public highway. The unit falls outside the parameters for permitted development by 0.6 cubic meters.

A noise assessment procedure has been carried out to MCS 020 standards at the above-mentioned property. This provides evidence of acceptance to meet planning permission requirement and cause negligible noise disruption to any neighbouring property. The closest habitable neighbouring window is 15 meters away, as set out in the noise assessment. We have also estimated an assumed background noise level of 40 decibels. Our proposed heat pump has passed its final decibel correct sound level assessment of 41dB. MCS 020 criteria states any measurement under 42dB is deemed as a pass with 42dB or above failing the assessment.

Noise emissions

Below will be an assessment of all noise emissions from the proposed installation in the form of a detailed timetable of noise emitting work from power tools and equipment during the 5-working day installation.

Included in this proposal will be the arrival and departure of any vehicles which includes the installers daily transportation, the delivery of materials on day 1 and the collection of waste on day 3 and 5. In this document however will not be a comment on the noise emissions of any vehicles involved within the installation as this is unattainable and impossible to assess.

Below is a list of all power tools that will be used during the process of the installation which includes an estimated assessment of their noise levels according to the manufacturer.

1x Core drill (up to 99db)

1x Combi drill (85db)

1x Impact driver (95 to 105db)

1x Press tool (54db)

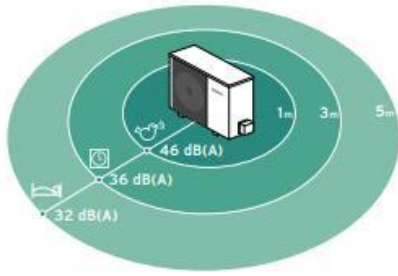
1x Multi tool (95 to 115db)

Proposed working timeframe and schedule

Weekday Structure: 8am – 5pm				
Monday (Day 1)	8am Arrival of installers 2-3 installers vans	10am Material delivery	10-11am Unloading and moving materials as well as checking components.	11am-5pm Internal drilling which includes replacing or installing radiators End of day work. Installers leave
Tuesday (Day 2)	8am Arrival of installers 2-3 installers vans	8.30am-5pm Drilling internal and external walls which includes installation pipework, coring and fixing plastic chunking pipe covers	8.30am-5pm Electrical. Running cabling externally into the property. This includes drilling fixing to anchor cables End of day work. Installers leave	
Wednesday (Day 3)	8am Arrival of installers 2-3 installers vans	8.30am-4.30pm Connecting all internal pipework. No drilling End of day work. Installers leave	4.30-4.45pm Waste removal	5pm End of day work. Installers leave
Thursday (Day 4)	8am Arrival of installers 2-3 installers vans	8.30am-5pm Wiring heat pump and connecting pipework End of day work. Installers leave		
Friday (Day 5)	8am Arrival of installers 2-3 installers vans	8.30am-4.30pm Commissioning the new system. Testing and demonstration to the customer. General trying and cleaning up	4.30-4.45pm Waste removal	5pm End of day work. Installers leave

Aira would appreciate a direct response from KC environmental Health (Pollution & Noise Control) on this document. Contained within this document are all the answers to the recommended conditions a, b and c. Aira require confirmation that this document has been acknowledged and would appreciate a direct response on any further details or information that is required.

Sound power



Model	Sound Power Level A7/W55	Sound Pressure Level		
		1m distance	3m distance	5m distance
aroTHERM plus 3.5kW	54 dB	46 dB(A)	36 dB(A)	32 dB(A)
aroTHERM plus 5kW	54 dB	46 dB(A)	36 dB(A)	32 dB(A)
aroTHERM plus 7kW	55 dB	47 dB(A)	37 dB(A)	33 dB(A)
aroTHERM plus 10kW	60 dB	52 dB(A)	42 dB(A)	38 dB(A)
aroTHERM plus 12kW	60 dB	52 dB(A)	42 dB(A)	38 dB(A)