

ASHP

Vaillant aroTHERM plus 10kW ASHP H1565 x W1100 x D450mm

> ~7.15m to nearest neighbouring living window. See separate drawing for scale version.

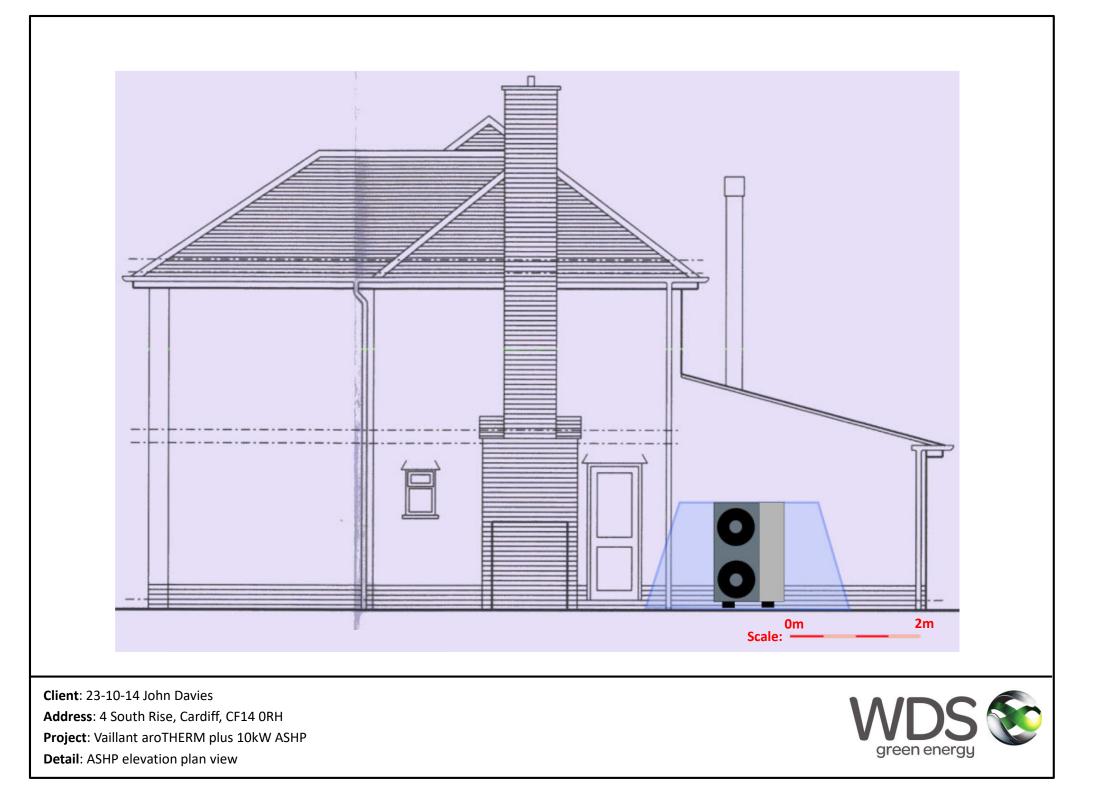
Client: 23-10-14 John Davies Address: 4 South Rise, Cardiff, CF14 ORH Project: Vaillant aroTHERM plus 10kW ASHP Detail: HP location – Plan view





Client: 23-10-14 John Davies Address: 4 South Rise, Cardiff, CF14 0RH Project: Vaillant aroTHERM plus 10kW ASHP Detail: Google Maps







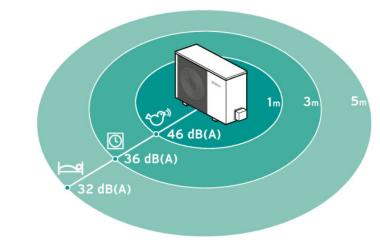
Client: 23-10-14 John Davies Address: 4 South Rise, Cardiff, CF14 0RH Project: Vaillant aroTHERM plus 10kW ASHP Detail: ASHP elevation plan view



1. Sound power level (dB)	60	
2. Sound pressure level (dB)	Q4 - "Two Reflective Surfaces"	
3.Distance from heat pump to assessment position (meters)	6	
4. dB Distance Reduction	-20	
5. Barriers Between heat pump and assessment position	Barrier (no view)	
6.Sound pressure level @ assessment position	30	
7. Background noise level (dB)	40	
8. Differential between 6. & 7.	10	
9. Decibel Correction (dB)	40.4	
10. Final Result (dB)	41.0	
	Pass	



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)

Client: 23-10-14 John Davies Address: 4 South Rise, Cardiff, CF14 0RH Project: Vaillant aroTHERM plus 10kW ASHP Detail: MCS 020_ASHP sound level assessment

