TECHNICAL NOTE

Proposed Air Source Heat Pumps

Crow Trees Farm, Crow Trees Brow, Chatburn BB7 4AA

Date	4 th March 2025
Site Visited	N/A
Ref.	20250304 9215 Chatburn ASHP
Planning Ref.	3/2025/0001
Prepared by:	M A Kenyon MSc BSc MIOA

1.0 Introduction

Planning consent has been previously granted for residential development of a site at the above location; there would be 37 plots and the developers recently submitted a non-material application so that Air Source Heat Pumps [ASHP] can be provided to heat the properties, i.e. a total of 37 ASHPs.

It is understood that the Environmental Health Department [EHD] has requested "...a noise assessment of the cumulative effects of noise..."; however, the EHD also stated that the most commonly used method of determining the impact of ASHP noise, which is MCS020, should **not** be used on the grounds that the installation of multiple units, means that "...this will be out of the scope of the MCS020 standard which is for individual units."



And further:

"The applicant needs to demonstrate and model the impact of all the units, the noise assessment shall be carried out in accordance with BS 4142:2014+A1:2019 the assessment must be undertaken by a suitably qualified person..."

This Technical Note considers the most appropriate standard for the cumulative assessment of ASHPs proposed for new properties on the residents of the existing properties, conducts the assessment and then presents the results. Acoustic terminology is at Appendix 1 and the author's qualifications and experience appear at Appendix 2.

2.0 Noise Criteria

2.1 MCS020

This document is entitled *"MCS Planning Standards For permitted development installations of wind turbines and air source heat pumps on domestic premises"*.

Having re-read the document, we were unable to find any indication that the standard should only apply to the assessment of single heat pumps.

The standard sets out a prediction and assessment methodology for ASHP noise and logically there would be no reason why the standard should not apply to an installation which comprised of multiple heat pumps as much as it applied to an installation with just one heat pump.

In addition, all the units could be individually installed under permitted development rights, in which case the MCS020 would be used, but only for each

heat pump individually and there would be no assessment of the cumulative impact.

2.2 BS 4142:2014+A1:2019

In the Scope Section [1.3 h] of the British standard it is stated that:

"The standard is not intended to be applied to the rating and assessment of sound from... other sources falling within the scopes of other standards or guidance."

Given that MCS020 is a standard specifically covering ASHP noise, and that it does not rule out its use for multiple such units, BS4142 would appear to exclude itself from use under these circumstances.

3.0 MCS 020 Predictions

The standard sets out a specific calculation procedure to determine the noise level produced by ASHPs, depending on a variety of factors including the manufacturer's sound power level for the unit and the distance to assessment positions 1m outside the centre of nearby habitable windows/doors. If the predicted ASHP level, combined with a notional background noise, is 42dB(A) or less, then the ASHP noise impact is deemed acceptable.

There is no provision within MCS020 for separation distances greater than 30m; presumably on the basis that if an ASHP is more than 30m away then it would not have a significant noise impact; however, in this case none of the ASHPs are within 30m of any of the existing properties, so beyond 30m a 6dB reduction per doubling of distance has been used, which effectively assumes a point source

radiating over a reflective surface [worst case assumption].

It is understood that the ASHPs would be Daikin EDLA04-08EV3 units; it can be seen from the Specification Data below; that the sound power level depends on whether the unit is an EDLA06EV3, EDLA06EV3 or EDLA08EV3; unfortunately, the exact designation of the units isn't clear; therefore, it has been assumed that they are all EDLA08EV3 units, which are the loudest [worst case assumption].

Given that there would be 37 ASHPs on the site, it is unlikely that all units would ever operate simultaneously; however, the predictions assume that all units operate continuously and simultaneously [worst case assumption].

For this analysis, fences and walls have been assumed to have a zero barrier effect [worst case assumption].

In the Tables at the rear of this Technical Note is the set of MCS020 calculations for the four closest existing properties to the development site. The location of the receivers and the ASHPs are as shown in Figure 2 below.

4.0 Conclusion

For the reasons stated above, it is considered that MCS020 is the most appropriate standard to assess the cumulative impact of Air Source Heat Pump noise on the existing properties.

From the Tables of this Technical Note, it can be seen that the **cumulative** noise from the Air Source Heat Pumps on the existing properties complies with the limits in MCS 020, i.e. the impact is deemed acceptable.

APPENDIX 1

EXPLANATION OF ACOUSTIC TERMS

The dB or the decibel, is the unit of noise. The number of decibels or the level, is measured using a sound level meter. It is common for the sound level meter to filter or 'weight' the incoming sound so as to mimic the frequency response of the human ear. Such measurements are designated **dB(A)**.

A doubling of the sound is perceived, by most people, when the level has increased by 10 dB(A). The least discernible difference is 2 dB(A). Thus most people cannot distinguish between, say 30 and 31 dB(A).

The Background level of noise is most commonly represented by the level which is exceeded for 90% of the time i.e. the LA90.

If a noise varies over time then the **equivalent continuous level, or LAeq**, is the notional constant level of noise which would contain the same amount of acoustic energy as the time varying noise.

The following table gives an approximate indication of the comparative loudness of various noises expressed in terms of the A weighted scale:

Source of noise	dB(A)	Nature of Noise
Inside Quiet bedroom at night	25-30	Very Quiet
Quiet office	40-45	
Rural background noise	35-45	
Normal conversational level	55-65	
Busy restaurant	65-75	
Inside suburban electric train	70-80	
Hand clap @ 1m	75-85	
HGV accelerating @ 5m away	85-90	Very Loud

APPENDIX 2

QUALIFICATIONS AND EXPERIENCE OF M. A. KENYON

My full name is Melville Alexander Kenyon. I am the principal of the firm of Martec Environmental Consultants Ltd, a consultancy company that specialises in environmental noise assessment and control. I graduated in 1982 with a Bachelor's degree in Engineering and subsequently a Master's degree in Environmental Acoustics. I have been a corporate member of the professional body for noise and vibration specialists, the Institute of Acoustics, since 1988, and have sat on the British Standards Committee dealing with noise in buildings [BS.8233:1999].

I have lectured at Liverpool John Moores University on the Diploma of Acoustics course and at Manchester Metropolitan University on their Environmental Health degree course.

The firm of Martec Environmental Engineering was formed in the 1970's and joined The Association of Noise Consultants in 1996. It is now known as Martec Environmental Consultants Ltd.

Since its formation, Martec has advised many groups of both residents and developers about the problems of noise and vibration in the environment.

Specifications Table for EDLA04-08EV3

					EDLA04E2V3	EDLA06E2V3	EDLA08E2V3
Heating capacity	Nom.			kW	4.30 (1), 4.60 (2)	6.00 (1), 5.90 (2)	7.50 (1), 7.80 (2)
Power input	Heating		Nom.	kW	0.840 (1), 1.26 (2)	1.24 (1), 1.69 (2)	1.63 (1), 2.23 (2)
СОР					5.10 (1), 3.65 (2)	4.85 (1), 3.50 (2)	4.60 (1), 3.50 (2)
Dimensions	Unit		Height	mm	770	770	770
			Width	mm	1250	1250	1250
			Depth	mm	362	362	362
Weight	Unit			kg	88	88	88
Operation range	Heating	Water side	Min.	°C	9 (3)	9 (3)	9 (3)
			Max.	°C	65 (3)	65 (3)	65 (3)
	Domestic hot water	Ambient	Min.	°CDB	-27	-27	-27
			Max.	°CDB	35	35	35
		Water side	Min.	°C	25	25	25
			Max.	°C	55 (3)	55 (3)	55 (3)
Sound power level	Heating		Nom.	dBA	58	60	62
Sound							

Figure 1: Specification Provided as part of the Application



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Page 8 of 10 20250304 9215 Chatburn ASHP

ACS 020 Planning Standard - Air Source Heat Pump calculation procedure																																					
leceiver	1																																				
CoOrdinates	376709																																				
CoOrdinates	443915																																				
leat Pump Plot Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
CoOrdinates	376741	376742	376747	376747	376741	376744	376750	376750	376758	376759	376767	376771	376780	376784	376772	376772	376764	376763	376815	376813	376801	376800	376784	376781	376808	376822	376828	376837	376838	376847	376847	376848	376849	376842	76841 3	76840 37	76839
CoOrdinates	443960	443959	443951	443950	443937	443933	443919	443917	443905	443904	443892	443889	443905	443908	443919	443920	443934	443935	443883	443880	443870	443869	443856	443851	443981	443962	443960	443945	443944	443931	443929	443929	443928 /	443905 4	43905 4	43904 4/	43903
eparation Distance	55	55	52	52	39	39	40	41	49	50	62	67	72	75	63	62	58	57	110	109	102	102	95	96	119	122	126	132	132	138	139	139	140	133	132	131	130
. From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1: Sound power																																					
evel'. The highest sound power level specified should be used (the power in "low noise mode" should not be used).	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
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																													1								
. Use table in 'Note 4: dB distance reduction' below to obtain a dB reduction.	-37	-36	-36	-36	-37	- 34	-34	-34	-36	-36	-38	-41	-39	-42	-38	-38	-37	-37	-46	-42	-42	-42	-44	-41	-46	-46	-44	-47	-44	-44	-48	-48	-48	-47	-47	-47	-47
. Barrier Effect	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	0	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
Calculate the sound pressure level (see 'Note 2: Sound pressure level') from the heat pump at the assessment	15	10	10	10	15	10	10	10	10	10	14		12	10			25	25	6	10	10	10			6	~	0							<i>c</i>	<i>c</i>		-
osition using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)	15	10	10	10	15	10	10	10	10	10	14	11	15	10	14	14	25	25	0	10	10	10	0		0	0	0	2	°	٥	4	4	4	2	2	2	э
. Background noise level.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Determine the difference between STEP 7 background noise level and the heat pump noise level using the	25	24	24	24	25	22	22	22	24	24	20	20	27	20	20	20	15	15	24	20	20	20	22	20	24	24	22	25	22	22	20	20	20	ar	25	25	25
ollowing calculation: (STEP 7) – (STEP 6)	25	24	24	24	25	22	22	22	24	24	20	29	21	30	20	20	15	15	34	50	30	50	32	29	54	54	32	35	32	32	30	30	30	35	35	35	35
Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the	40	40		40		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40		40	40	40	40	40	40	40	40	40	40	40	40
igher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
0. Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42 dB(A)?	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES												
log Individual ASHP Levels	31.62278	39.81072	39.81072	39.81072	31.62278	63.09573	63.09573	63.09573	39.81072	39.81072	25.11886	12.58925	19.95262	10	25.11886	25.11886	316.2278	316.2278	3.981072	10	10	10	6.309573	12.58925	3.981072	3.981072	6.309573	3.162278	6.309573	6.309573	2.511886	2.511886	2.511886 3	.162278 3	162278 3.:	162278 3.1	162278
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Receiver	2																																				
X CoOrdinates	376755.9	9																																			
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Heat Pump Plot Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
X CoOrdinates	376741	376742	376747	376747	376741	376744	376750	376750	376758	376759	376767	376771	376780	376784	376772	376772	376764	376763	376815	376813	376801	376800	376784	376781	376808 3	76822	376828	376837	376838	376847	376847	376848	376849	376842 3	76841 3	376840 3	376839
YCoOrdinates	443960	443959	443951	443950	443937	443933	443919	443917	443905	443904	443892	443889	443905	443908	443919	443920	443934	443935	443883	443880	443870	443869	443856	443851	443981 4	43962	443960 4	443945	443944	443931	443929	443929	443928	443905 4	43905 4	143904 4	143903
Separation Distance	46	46	53	54	68	72	85	86	98	99	112	116	102	100	86	84	70	69	134	136	141	142	150	155	57	78	84	100	101	116	118	119	120	130	130	130	130
1. From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1: Sound power	~	0	~	~	~	~	~	0	62	~	~	~	~	~	~	~	0	C2	~	0	0	~	~	~	~	~	~	~	~	~	~	~	~	~	0	~	0
level'. The highest sound power level specified should be used (the power in "low noise mode" should not be used).	02	02	62	62	62	62	02	02	02	02	62	02	02	62	02	62	62	62	02	62	62	02	62	02	02	62	62	62	62	02	02	02	62	02	62	62	62
2. Directivity	8	8	8	8	4	8	8	8	8	8	8	4	8	4	8	8	8	8	4	8	8	8	4	8	4	4	8	4	8	8	4	4	4	4	4	4	4
66 (66)																																					
Use table in 'Note 4: dB distance reduction' below to obtain a dB reduction.	-35	-35	-36	-36	-41	-39	-40	-40	-42	-42	-43	-46	-42	-45	-40	-40	-39	-38	-47	-44	-45	-45	-48	-45	-40	-43	-40	-45	-42	-43	-46	-46	-46	-47	-47	-47	-47
5. Barrier Effect	0	0	0	0	-10	-10	0	0	0	0	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	- 10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10	-10
6. Calculate the sound pressure level (see 'Note 2: Sound pressure level') from the heat pump at the assessment position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)	27	27	26	26	11	13	22	22	20	20	9	6	10	7	12	12	13	14	5	8	7	7	4	7	12	9	12	7	10	9	6	6	6	5	5	5	5
7. Background noise level.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
 Determine the difference between STEP 7 background noise level and the heat pump noise level using the following calculation: (STEP 7) – (STEP 6) 	13	13	14	14	29	27	18	18	20	20	31	34	30	33	28	28	27	26	35	32	33	33	36	33	28	31	28	33	30	31	34	34	34	35	35	35	35
9. Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the higher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number.	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
10. Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42 dB(A)?	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
6. Total ASHP Level	34																																				
7. Background noise level.	40																																				
8. Determine the difference between STEP 7 background noise level and the heat pump noise level using the		1																																			
following calculation: (STEP 7) – (STEP 6)	ь	1																																			
9. Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the	41																																				
higher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number.	41																																				
10. Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42 dB(A)?	YES																																				
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Receiver	3	crow tre	es Barn				_		-	-	-																							
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Counting Distance	443900	443959	443951	443950 4	43957 4	443933 443	919 44	44390	443904	4 445692	443669	445905	443908	43919 44	07 07	3934 4439. 36 00	35 44366	141	443870	443609	443650	443651	443961	445962	445900	443945	443944	443931	445929	443929	443928	443905 4	13305 44	3904 443903
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 From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See Note 1: Sound power 	62	62	62	62	62	62 6	2 6	62 62	62	62	62	62	62	62	62 6	52 62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62 6	62 62
level'. The highest sound power level specified should be used (the power in "low holse mode" should not be used).									-	-	-						_	_	-															
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				20				10 10			17	10		10							10		20		20			10				47	47	17 17
4. Use table in 'Note 4: dB distance reduction' below to obtain a dB reduction.	-39	-39	- 59	-39	-44	-41 -4	12 -	-42 -43	-43	-44	-4/	-43	-45	-42	-41 -4	40 -40	-48	-45	-45	-45	-49	-46	-38	-41	-39	-44	-41	-42	-45	-46	-46	-4/	-4/ -	4/ -4/
5. Barrier Effect	-10	-10	-10	-10	-10	-10 -1	- 10	-10 -10	-10	-10	-10	-10	-10	-10	-10 -1	10 -10	-10	-10	-10	-10	-10	-10	0	0	0	-10	-10	-10	-10	-10	-10	-10	-10 -	10 - 10
6. Calculate the sound pressure level (see 'Note 2: Sound pressure level') from the heat pump at the assessment	12	12	12	12		11 1		10 0	0		6	0	7	10	11 1	12 12	4	7	7	7	2	6	24	21	22	0	11	10	7	6	6	6	6	c c
position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)	15	13	15	15	0			10 5	5	0	2	5	,	10		12 12	4				3	0	24	21	23	0	11	10		0	0	5	5	, ,
7. Background noise level.	40	40	40	40	40	40 4	0 4	40 40	40	40	40	40	40	40	40 44	40 40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40 4	40
8. Determine the difference between STEP 7 background noise level and the heat pump noise level using the	27	27	27	27	32	20 3	۰ I -	30 31	31	32	35	31	33	30	20 2	28 28	36	33	33	33	37	34	16	19	17	32	20	30	33	34	34	35	35	15 35
following calculation: (STEP 7) – (STEP 6)	27	27	27	27	32	25 5		30 31	31	32	35	31	33	30	25 25	20 20	30	33	33	33	3/	34	10	15	1/	32	2.5	30	33	34	34	35	35 .	55 55
9. Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the	40	40	40	40	40	40 4	۰ L .	40 40	40	40	40	40	40	40	40 4	10 40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
higher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number.							-																											
10. Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42 dB(A)?	YES	YES	YES	YES	YES	YES YE	ES Y	YES YES	YES	YES	YES	YES	YES	YES	YES YE	ES YES	S YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES Y	ES YES
6. Total ASHP Level	29	4																																
7. Background noise level.	40																																	
8. Determine the difference between STEP 7 background noise level and the heat pump noise level using the	11																																	
following calculation: (STEP 7) – (STEP 6)																																		
9. Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the	40																																	
higher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number.	40																																	
10. Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42 dB(A)?	YES																																	
MCS 020 Planning Standard - Air Source Heat Pump calculation procedure																																		
Receiver	4	The Reek																																
		THE NOON	ery						_																									
X CoOrdinates	376845.2	THE NOON	ery																															
X CoOrdinates Y CoOrdinates	376845.2 443995.4		ery																															
X CoOrdinates Y CoOrdinates Heat Pump Plot Number	376845.2 443995.4 1	2	3	4	5	6 7	,	8 9	10	11	12	13	14	15	16 1	17 18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	86 37
X CoOrdinates Y CoOrdinates HeatPump Plot Number X CoOrdinates	376845.2 443995.4 1 376741	2 376742	3 376747	4 376747 3	5 376741 3	6 7 376744 376	7	8 9 76750 376758	10 8 376759	11 9 376767	12 376771	13 376780	14 376784	15 376772 3	16 1 6772 376	17 18 5764 3767	19 63 37681	20 5 376813	21 376801	22 376800	23 376784	24 376781	25 376808	26 376822	27 376828	28 376837	29 376838	30 376847	31 376847	32 376848	33 376849	34 376842 3	35 76841 370	37 5840 376839
X CoOrdinates / CoOrdinates leat Pump Plot Number X CoOrdinates / CoOrdinates	376845.2 443995.4 376741 443960	2 376742 443959	3 376747 443951	4 376747 3 443950 4	5 376741 3 143937 4	6 7 376744 376 443933 443	7 750 376 919 443	8 9 76750 376758 13917 44390	10 8 376759 5 443904	11 9 376767 4 443892	12 376771 443889	13 376780 443905	14 376784 3 443908 4	15 376772 33 143919 44	16 1 6772 376 13920 443	17 18 5764 3767 3934 4439	19 63 37681 35 44388	20 5 376813 3 443880	21 376801 443870	22 376800 443869	23 376784 443856	24 376781 443851	25 376808 443981	26 376822 443962	27 376828 443960	28 376837 443945	29 376838 443944	30 376847 443931	31 376847 443929	32 376848 443929	33 376849 443928	34 376842 3 443905 4	35 76841 370 13905 443	36 37 5840 376839 1904 443903
K CoOrdinates Y CoOrdinates Heat Pump Pto Number K CoOrdinates C CoOrdinates Separation Distance	376845.2 443995.4 376741 443960 110	2 376742 443959 109	3 376747 443951 108	4 376747 3 443950 4 108	5 376741 3 143937 4 119	6 3 376744 376 443933 443 119 12	7 750 374 919 443 23 1	8 9 76750 376758 13917 443903 123 126	10 8 376759 5 443900 126	11 9 376767 4 443892 130	12 376771 443889 130	13 376780 443905 112	14 376784 3 443908 4 107 3	15 876772 33 143919 44 105	16 1 16772 376 13920 443 105 10	17 18 5764 3767 3934 4439 02 102	19 63 37681 35 44388 2 117	20 5 376813 3 443880 120	21 376801 443870 133	22 376800 443869 134	23 376784 443856 152	24 376781 443851 158	25 376808 443981 40	26 376822 443962 41	27 376828 443960 40	28 376837 443945 51	29 376838 443944 52	30 376847 443931 65	31 376847 443929 66	32 376848 443929 67	33 376849 443928 68	34 376842 3 443905 4 90	35 76841 370 13905 444 91 9	36 37 376839 3904 443903 32 93
X CoOrdinates CCOOrdinates test Pump Flot Number V COOrdinates Y CoOrdinates Separation Distance L From manufacture's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1: Sound power L From manufacture's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1: Sound power	376845.2 443995.4 1 376741 443960 110 62	2 376742 443959 109 62	3 376747 443951 108 62	4 376747 3 443950 4 108 62	5 376741 3 143937 4 119	6 7 376744 376 443933 443 119 12 62 6	7 750 376 919 443 23 1 2 6	8 9 76750 376758 13917 443903 123 126 62 62	10 8 376759 5 443904 126 62	11 9 376767 4 443892 130 62	12 376771 443889 130 62	13 376780 443905 112 62	14 376784 3 443908 4 107 62	15 876772 33 143919 44 105	16 1 16772 376 13920 4433 105 10 62 6	17 18 5764 3767 3934 4439 02 107 52 62	19 63 37681 35 44388 2 117 62	20 5 376813 3 443880 120 62	21 376801 443870 133 62	22 376800 443869 134 62	23 376784 443856 152 62	24 376781 443851 158 62	25 376808 443981 40 62	26 376822 443962 41 62	27 376828 443960 40 62	28 376837 443945 51 62	29 376838 443944 52 62	30 376847 443931 65 62	31 376847 443929 66 62	32 376848 443929 67 62	33 376849 443928 68 62	34 376842 3 443905 4 90 62	35 76841 37/ 13905 443 91 9	36 37 3840 376839 3904 443903 32 93 52 62
X CoOrdinates Y CoOrdinates Heat Pump Plot Number X CoOrdinates Y CoOrdinates Y CoOrdinates Y CoOrdinates Separation Distance 1. From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1: Sound power Leve'. The highest sound power level specified should be used (the power in 'Tow noise mode' should not be used).	376845.2 443995.4 1 376741 443960 110 62	2 376742 443959 109 62	3 376747 443951 108 62	4 376747 3 443950 4 108 62	5 376741 3 143937 4 119 62	6 7 376744 376 443933 443 119 12 62 6	7 750 376 919 443 23 1 2 6	8 9 76750 376758 13917 443903 123 126 62 62	10 8 376759 5 443900 126 62	11 9 376767 4 443892 130 62	12 376771 443889 130 62	13 376780 443905 112 62	14 376784 3 443908 4 107 62	15 876772 33 143919 44 105 62	16 1' 16772 376 13920 4432 105 10 62 62	17 18 5764 3767 3934 4439 02 102 52 62	19 63 37681 35 44388 2 117 62	20 5 376813 3 443880 120 62	21 376801 443870 133 62	22 376800 443869 134 62	23 376784 443856 152 62	24 376781 443851 158 62	25 376808 443981 40 62	26 376822 443962 41 62	27 376828 443960 40 62	28 376837 443945 51 62	29 376838 443944 52 62	30 376847 443931 65 62	31 376847 443929 66 62	32 376848 443929 67 62	33 376849 443928 68 62	34 376842 3 443905 4 90 62	35 76841 370 13905 443 91 9 62 0	36 37 3840 376839 3904 443903 32 93 52 62
CoOrdinates Coordinat	376845.2 443995.4 1 376741 443960 110 62	2 376742 443959 109 62	3 376747 443951 108 62	4 376747 3 443950 4 108 62	5 376741 3 143937 4 119 62	6 7 376744 376 443933 443 119 12 62 6	7 750 370 919 443 23 1 2 6	8 9 76750 376758 13917 443903 123 126 62 62	10 8 376759 5 443900 126 62	11 9 376767 4 443892 130 62	12 376771 443889 130 62	13 376780 443905 112 62	14 376784 3 443908 4 107 62	15 876772 33 143919 44 105 - 62 -	16 1' 76772 376 33920 443: 105 10 62 6:	17 18 5764 3767 3934 4439 02 102 52 62	19 63 37681 35 44388 2 117 62	20 5 376813 3 443880 120 62	21 376801 443870 133 62	22 376800 443869 134 62	23 376784 443856 152 62	24 376781 443851 158 62	25 376808 443981 40 62	26 376822 443962 41 62	27 376828 443960 40 62	28 376837 443945 51 62	29 376838 443944 52 62	30 376847 443931 65 62	31 376847 443929 66 62	32 376848 443929 67 62	33 376849 443928 68 62	34 376842 3 443905 4 90 62	35 76841 370 13905 44 91 9 62 0	37 376339 9904 443903 32 93 52 62
K CoOrdinates Yead Pump Plot Number X CoOrdinates Y CoOrdinates Y CoOrdinates Separation Distance Separation Distance J From manufacture's data, obtain the A-weighted sound power level of the heat pump. See Note 1: Sound power level'. The highest sound power level specified should be used (the power in "low noise mode" should not be used). 2. Directivity	376845.2 443995.4 1 376741 443960 110 62 8	2 376742 443959 109 62 8	3 376747 443951 108 62 8	4 376747 3 443950 4 108 62 8	5 376741 3 143937 4 119 62 4	6 7 376744 376 443933 443 119 12 62 6 8 8	7 750 376 919 443 23 1 2 6 3	8 9 76750 376754 13917 443905 123 126 62 62 8 8	10 8 376755 5 443900 126 62 8	11 9 376767 4 443892 130 62 8	12 376771 443889 130 62 4	13 376780 443905 112 62 8	14 376784 3 443908 4 107 62 4	15 876772 33 143919 44 105 62 8 8	16 1' 76772 376 33920 443: 105 10 62 6: 8 8	17 18 5764 3767 3934 4439 02 102 52 62 8 8	19 63 37681 35 44388 2 117 62 4	20 5 376813 3 443880 120 62 8	21 376801 443870 133 62 8	22 376800 443869 134 62 8	23 376784 443856 152 62 4	24 376781 443851 158 62 8	25 376808 443981 40 62 4	26 376822 443962 41 62 4	27 376828 443960 40 62 8	28 376837 443945 51 62 4	29 376838 443944 52 62 8	30 376847 443931 65 62 8	31 376847 443929 66 62 4	32 376848 443929 67 62 4	33 376849 443928 68 62 4	376842 3 443905 4 90 62 62 4	35 76841 370 13905 44 91 9 62 0 4	36 37 5840 376839 9904 443903 92 93 52 62 4 4
IX CoOrdinates VECOURINATES	376845.2 443995.4 1 376741 443960 110 62 8	2 376742 443959 109 62 8	3 376747 443951 108 62 8	4 376747 3 443950 4 108 62 8	5 376741 3 143937 4 119 62 4	6 7 376744 376 443933 443 119 12 62 6 8 8	7 750 370 919 443 23 1 2 6 3	8 9 >6750 376758 33917 443900 123 126 62 62 8 8	10 8 376759 5 443900 126 62 8	11 9 376767 4 443892 130 62 8 8	12 376771 443889 130 62 4	13 376780 443905 112 62 8	14 376784 : 443908 4 107 62 4	15 876772 33 143919 44 105 62 8 8	16 1 76772 376 33920 443 105 10 62 6 8 8	17 18 5764 3767 3934 4439 02 102 52 62 8 8	19 63 37681 35 44388 2 117 62 4	20 5 376813 3 443880 120 62 8	21 376801 443870 133 62 8	22 376800 443869 134 62 8	23 376784 443856 152 62 4	24 376781 443851 158 62 8	25 376808 443981 40 62 4	26 376822 443962 41 62 4	27 376828 443960 40 62 8	28 376837 443945 51 62 4	29 376838 443944 52 62 8	30 376847 443931 65 62 8	31 376847 443929 66 62 4	32 376848 443929 67 62 4	33 376849 443928 68 62 4	34 376842 3 443905 4 90 62 4	35 76841 370 13905 443 91 9 62 0 4	36 37 8840 376839 9304 443903 92 93 52 62 4 4
K CoOrdinates VECOUNDATES	376845.2 443995.4 1 376741 443960 110 62 8 8 -42	2 376742 443959 109 62 8 -42	3 376747 443951 108 62 8 -42	4 376747 3 443950 4 108 62 62 8 8 -42 6	5 376741 3 143937 4 119 62 4 -46	6 7 376744 376 443933 443 119 12 62 6 8 8 -43 -4	7 750 374 919 443 23 1 2 6 3 3 -	8 9 76750 376758 13917 44390 123 126 62 62 8 8 -43 -44	10 8 376759 5 443904 126 62 8 8 -44	11 9 376767 4 443892 130 62 8 8 -44	12 376771 443889 130 62 4 -47	13 376780 443905 112 62 8 8 -43	14 376784 3 443908 4 107 6 62 4 4 -45 6	15 376772 33 143919 44 105 62 8 8 -42	16 1 16772 376 3920 443 105 10 62 6 8 8 -42 -4	17 18 5764 3767 9934 4439 002 100 52 62 8 8 42 -42	19 63 37681 35 44388 2 117 62 4 2 -46	20 5 376813 3 443880 120 62 8 8 -43	21 376801 443870 133 62 8 -44	22 376800 443869 134 62 8 8	23 376784 443856 152 62 4 -48	24 376781 443851 158 62 8 8 -46	25 376808 443981 40 62 4 -37	26 376822 443962 41 62 4 4 -37	27 376828 443960 40 62 8 8 -34	28 376837 443945 51 62 4 -39	29 376838 443944 52 62 8 8 -36	30 376847 443931 65 62 8 8 -38	31 376847 443929 66 62 4 -41	32 376848 443929 67 62 4 -41	33 376849 443928 68 62 4 -41	34 376842 3 443905 4 90 62 62 4 -44 5	35 37 76841 37 13905 44 91 9 62 0 4 - -44 -	36 37 8840 376839 1904 443903 12 93 52 62 4 4 44 -44
K CoOrdinates V CoOrdinates Vest Rump Plot Number K CoOrdinates CoOrdinates Separation Distance Exportation Distance L From monufacturer's data the A-weighted sound power level of the heat pump. See "Note 1: Sound power level". The highest sound power level specified should be used (the power in "low noise mode" should not be used). 2. Directivity 2. Directivity 4. Use table in "Note & did listance reduction" below to obtain a dB reduction. 5. Barrier Effect	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10	2 376742 443959 109 62 8 -42 -10	3 376747 443951 108 62 8 -42 -10	4 376747 3 443950 4 108 62 8 8 -42 -10	5 376741 3 143937 4 119 62 4 -46 -10	6 7 376744 376 443933 443 119 12 62 6 8 8 -43 -4 -10 -1	7 750 374 919 443 23 1 2 6 3 3 	8 9 76750 376753 33917 443902 123 126 62 62 8 8 -43 -44 -10 -10	10 8 376755 5 443904 126 62 8 8 -44 -10	11 9 376767 4 443892 130 62 8 8 -44 -10	12 376771 443889 130 62 4 -47 -10	13 376780 443905 112 62 8 -43 -10	14 376784 3 443908 4 107 62 4 -45 -10	15 376772 3: 443919 44 105 62 8 8 -42 -10	16 1' 16772 376 13920 4433 105 10 62 6 8 8 -42 -4 -10 -1	17 18 5764 3767 3934 4439 02 102 52 62 8 8 42 -42 10 -10	19 63 37681 35 44388 2 117 62 4 2 -46 0 -10	20 5 376813 3 443880 120 62 8 8 -43 -10	21 376801 443870 133 62 8 -44 -10	22 376800 443869 134 62 8 8 -44 -10	23 376784 443856 152 62 4 -48 -10	24 376781 443851 158 62 8 8 -46 -10	25 376808 443981 40 62 4 -37 0	26 376822 443962 41 62 4 -37 0	27 376828 443960 40 62 8 -34 0	28 376837 443945 51 62 4 -39 0	29 376838 443944 52 62 8 8 -36 0	30 376847 443931 65 62 8 8 -38 0	31 376847 443929 66 62 4 4 -41 0	32 376848 443929 67 62 4 -41 0	33 376849 443928 68 62 4 -41 0	34 376842 3 443905 4 90 62 4 -44 -10	35 37 76841 37 13905 44 91 9 62 4 4 - -44 - -10 -	36 37 8840 376839 8904 443903 32 93 52 62 4 4 44 -44 100 -10
CoOrdinates Level: The highest sound power level specified sound power level of the heat pump. See 'Note 1: Sound power level: The highest sound power level specified should be used (the power in "low noise mode" should not be used). Directivity Directivity Low Directivity Low Directivity Low Directivity Coordinate	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10	2 376742 443959 109 62 8 -42 -10	376747 443951 108 62 8 -42 -10	4 376747 3 443950 4 108 62 62 8 62 7 8 7 -42 7 -10 7	5 376741 3 143337 4 119 62 4 -46 -10	6 7 376744 376 443933 443 119 12 62 6 8 8 -43 -4 -10 -1	7750 37/ 919 44: 23 1 2 6 3 -	8 9 \$6750 376753 13917 443902 123 126 62 62 8 8 -43 -44 -10 -10	10 8 376755 5 443904 62 62 8 -44 -10	11 9 376767 4 443892 130 62 8 -44 -10	12 376771 443889 130 62 4 -47 -10	13 376780 443905 112 62 8 -43 -10	14 376784 1 443908 1 107 62 4 1 -45 -10	15 376772 33 143919 44 105 62 8 -42 -10	16 1 16772 376 13920 4433 105 10 62 6 8 8 -42 -4 -10 -1	17 18 5764 3767 3934 4439 002 102 52 62 8 8 42 -42 10 -10	19 63 37681 35 44388 2 117 62 4 2 -46 0 -10	20 5 376813 3 443880 120 62 8 -43 -10	21 376801 443870 133 62 8 -44 -10	22 376800 443869 134 62 8 -44 -10	23 376784 443856 152 62 4 -48 -10	24 376781 443851 158 62 8 -46 -10	25 376808 443981 40 62 4 -37 0	26 376822 443962 41 62 4 -37 0	27 376828 443960 40 62 8 -34 0	28 376837 443945 51 62 4 -39 0	29 376838 443944 52 62 8 -36 0	30 376847 443931 65 62 8 -38 0	31 376847 443929 66 62 4 -41 0	32 376848 443929 67 62 4 -41 0	33 376849 443928 68 62 4 -41 0	34 376842 3 443905 4 90 6 62 - - 4 -10 - - -	35 370 13905 443 91 9 62 0 4 - -44 - -10 -	37 3840 376839 9904 443903 32 93 52 62 4 4 10 -10
	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10 10	2 376742 443959 109 62 8 -42 -10 10	3 376747 443951 108 62 8 -42 -10 10	4 376747 3 443950 4 108 2 62 2 8 2 -42 2 -10 10	5 376741 3 443937 4 119 62 4 -46 -10 6	6 7 376744 376 443933 443 119 12 62 6 8 8 -43 -4 -10 -1 9 5	7 750 37/ 919 442 23 1 2 6 3 1 3 - 1 0 -	8 9 26750 376753 13917 44390 123 126 62 62 8 8 -43 -44 -10 -10 9 8	10 8 376759 5 443904 126 62 8 -44 -10 8	11 9 376767 4 443892 130 62 8 -44 -10 8	12 376771 443889 130 62 4 -47 -10 5	13 376780 443905 112 62 8 -43 -10 9	14 376784 1 443908 4 107 6 62 1 4 -10 -10 7	15 376772 3: 143919 44 105 - 62 - 8 - -42 - -10 -	16 1 16772 376 3320 4433 105 10 62 6 8 8 -42 -4 -10 -1 10 10	17 18 5764 3767 3934 4439 002 100 52 62 8 8 42 -42 10 -10 10 10	19 63 37681 35 44388 2 117 62 4 2 -46 0 -10 6 6	20 5 376813 3 443880 120 62 8 -43 -10 9	21 376801 443870 133 62 8 -44 -10 8	22 376800 443869 134 62 8 -44 -10 8	23 376784 443856 152 62 4 -48 -10 4	24 376781 443851 158 62 8 -46 -10 6	25 376808 443981 40 62 4 -37 0 25	26 376822 443962 41 62 4 4 -37 0 25	27 376828 443960 40 62 8 -34 0 28	28 376837 443945 51 62 4 -39 0 23	29 376838 443944 52 62 8 8 36 0 0 26	30 376847 443931 65 62 8 -38 0 24	31 376847 443929 66 62 4 -41 0 21	32 376848 443929 67 62 4 -41 0 21	33 376849 443928 68 62 4 -41 0 21	34 376842 3 443905 4 90 3 62 - - 4 -44 - - - 8 - - -	35 370 13905 443 91 5 62 0 4 - -44 - -10 - 8 -	376 376839 3840 376839 1904 443903 12 93 52 62 4 4 44 -44 10 -10 8 8
COOrdinates Coordinat	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10 10 40	2 376742 443959 109 62 8 -42 -10 10 40	3 376747 443951 108 62 8 -42 -10 10 40	4 376747 3 443950 4 108 6 8 - -42 - -10 10 10 -	5 376741 3 143937 4 119 62 4 -46 -10 6 40	6 7 376744 376 376744 376 119 112 62 6 8 8 -43 -4 -10 -1 9 5 40 4	7 750 376 919 443 23 1 2 6 8 3 - 1 0 - 9 0 4 4	8 9 76750 376754 13917 443902 123 126 62 62 8 8 -43 -44 -10 -10 9 8 40 40	10 8 376755 5 443904 126 62 62 8 -44 -10 8 40	11 9 376767 4 443892 130 62 8 -44 -10 8 40	12 376771 443889 130 62 4 -47 -10 5 40	13 376780 443905 112 62 8 -43 -10 9 40	14 376784 1 443908 4 107 6 62 1 -45 1 -10 7 40 1	15 376772 33 143919 44 105 4 62 4 -42 - -10 10 100 40	16 1 16772 376 33920 4433 105 10 62 6. 8 8 -42 -4 -10 -1 10 11 40 44	17 18 187564 3767 3934 4439 02 100 52 62 8 8 42 -42 10 -10 10 10	19 63 37681 335 44388 2 117 62 4 2 -46 0 -10 6 40	20 5 376813 3 443880 120 62 8 -43 -10 9 40	21 376801 443870 133 62 8 -44 -10 8 40	22 376800 443869 134 62 8 -44 -10 8 40	23 376784 443856 152 62 4 -48 -10 4 40	24 376781 443851 158 62 8 -46 -10 6 40	25 376808 443981 40 62 4 -37 0 25 40	26 376822 443962 41 62 4 4 -37 0 25 40	27 376828 443960 40 62 8 -34 0 28 40	28 376837 443945 51 62 4 -39 0 23 40	29 376838 443944 52 62 8 8 36 0 26 26 40	30 376847 443931 65 62 8 -38 0 24 40	31 376847 443929 66 62 4 -41 0 21 40	32 376848 443929 67 62 4 -41 0 21 40	33 376849 443928 68 62 4 -41 0 21 21 40	34 376842 3 443905 4 90 - 62 - 4 - -44 - -10 - 8 -	35 37 76841 37 13905 44 91 9 62 0 4 - -44 - -10 - 8 40	6 37 3840 376839 9904 443903 32 93 52 62 4 4 44 -44 10 -10 8 8 00 40
	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10 10 10 40	2 376742 443959 109 62 8 -42 -10 10 10	3 376747 443951 108 62 8 -42 -10 10 10	4 376747 3 443950 4 108 62 8 - -42 - -10 10 100 - -00 -	5 376741 3 143937 4 119 62 4 -46 -10 6 40 0 0	6 7 376744 376 3119 12 62 6 8 8 -43 -4 -10 -1 9 5 40 4	7 750 374 919 443 23 1 2 6 8 1 3 - 0 - 0 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8 9 3317 443900 123 126 62 62 63 -44 -10 -10 9 8 40 40	10 8 376752 5 443900 126 62 62 8 -44 -10 8 40	11 9 376767 4 443892 130 62 8 8 -44 -10 8 40	12 376771 443889 130 62 4 -47 -10 5 40	13 376780 443905 112 62 8 -43 -43 -10 9 40	14 376784 3 443908 4 107 6 62 4 -45 - -10 7 40 - 200 -	15 376772 33 143919 44 105 - 62 - 8 - -10 - 10 - 40 -	16 1 16772 376 3320 443 105 10 62 66 8 8 -42 -4 -10 -1 10 11 40 44	17 18 187564 3767:73 3934 4439 002 100 52 62 8 8 42 -42 100 -100 100 100	19 63 37681 35 44388 2 117 62 4 2 -46 0 -10 6 40	20 5 376813 3 443880 120 62 8 -43 -10 9 40	21 376801 443870 133 62 8 -44 -10 8 40	22 376800 443869 134 62 8 -44 -10 8 40	23 376784 443856 152 62 4 -48 -10 4 40	24 376781 443851 158 62 8 -46 -10 6 40	25 376808 443981 40 62 4 -37 0 25 40	26 376822 443962 41 62 4 -37 0 25 40	27 376828 443960 40 62 8 -34 0 28 40	28 376837 443945 51 62 4 -39 0 23 40	29 376838 443944 52 62 8 -36 0 26 40	30 376847 443931 65 62 8 -38 0 24 40	31 376847 443929 66 62 4 -41 0 21 40	32 376848 443929 67 62 4 -41 0 21 40	33 376849 443928 68 62 4 -41 0 21 40 21	34 376842 3 443905 4 90 62 4 - 4 - -44 - -10 8 40 -	35 37 76841 37 13905 44 91 4 92 4 4 - -44 - -10 - 8 - 40 -	36 37 8840 376839 9304 443903 12 93 52 62 4 4 44 -44 10 -10 8 8 60 40
K CoOrdinates V CoOrdinates Vest Drump Plot Number K CoOrdinates V Coordinates L From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See "Note 1: Sound power level." The highest sound power level specified should be used (the power in "low noise mode" should not be used). 2. Directivity: V Due Lable in "Note 4: dB distance reduction" below to obtain a dB reduction. 5. Barrier Effect 6: Calculate the sound pressure level (see Note 2: Sound pressure level") from the heat pump at the assessment position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5) 7: Badground noise level. 8: Determine the difference between STEP To Exdground noise level and the heat pump noise level using the following aciduation: (STEP 7) = (TEP 6)	376845.2 443995.4 1 376741 443960 110 62 8 -42 -10 10 10 40 30	2 376742 443959 109 62 8 -42 -10 10 30	3 376747 443951 108 62 8 -42 -10 10 40 30 30	4 375747 3 375747 3443950 4 108 108 1 62 1 1 1 62 1 1 1 1 -10 1 1 1 1 40 30 1 1 1	5 376741 3 143937 4 119 62 4 -46 -10 6 40 34	6 1 376744 376 443933 443 119 12 62 6 8 8 -43 -4 -10 -1 9 5 40 4 31 3	7 7750 37/ 919 442 23 1 22 6 8 33 - 0 - 9 0 44 1 5	8 9 33917 443900 123 126 62 62 8 8 -43 -44 -10 -10 9 8 40 40 31 32	10 8 376755 5 443900 126 62 62 8 -44 -10 8 40 32	11 9 376767 4 443892 130 62 8 -44 -10 8 40 32	12 376771 443889 130 62 4 -47 -10 5 40 35	13 376780 443905 112 62 8 -43 -10 9 40 31	14 376784 1 443908 107 62 1 4 107 62 1 -45 1 -10 1 7 1 40 33	15 \$76772 3: \$43919 44 105 - 62 - -42 - -10 - 10 - 40 - 30 -	16 1 16772 376 13920 443 105 10 105 10 62 6 8 8 -42 -4 -10 -1 10 1 40 4 30 3	17 18 5764 3767 3934 4339 002 100 52 62 8 8 42 -42 100 -10 100 40 300 300	19 63 37681 35 44388 2 117 62 4 2 -46 0 -100 6 40 34 34	20 5 376813 3 443880 120 62 62 8 -43 -10 9 40 31	21 376801 443870 133 62 8 -44 -10 8 40 32	22 376800 443869 134 62 8 -44 -10 8 40 32	23 376784 443856 152 62 4 -48 -10 4 40 36	24 376781 443851 158 62 8 -46 -10 6 40 34	25 376808 443981 40 62 4 -37 0 25 40 15	26 376822 443962 41 62 4 -37 0 25 40 15	27 376828 443960 40 62 8 8 -34 0 28 40 12	28 376837 443945 51 62 4 -39 0 23 40 17	29 376838 443944 52 62 62 8 -36 0 26 26 40 14	30 376847 443931 65 62 8 8 -38 0 24 40 16	31 376847 443929 66 62 4 4 -41 0 21 40 19	32 376848 443929 67 62 4 -41 0 21 40 19	33 376849 443928 68 62 4 -41 0 21 40 19	34 376842 3 443905 4 90 - 62 - 4 - -44 - -10 - 8 - 40 - 32 -	35 37 76841 37 13905 44 91 4 91 4 62 4 -44 - -10 - 8 - 40 - 32 -	36 37 8840 376839 9304 443903 12 93 52 62 4 4 44 -44 10 -10 8 8 10 40 52 32
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CoOrdinates Year Dump Plot Number Lorentivity Year Dump Plot Number Lorentivity Year Dump Plot Number Suble in Note 4.0 Bitshane reduction' below to obtain a dB reduction. S. Barrier Flett 6. Calculate the sound pressure level (see Note 2: Sound pressure level') from the heat pump at the assessment position using the following calculation: (STP 1) = (STP 4) = (STP 5) 7. Badground noise level. 8. Determine the difference between STP 7 Decoleground noise level and the heat pump noise level using the following calculation: (STP 6) 9. Using the table in Note 7. Decobel correction obtain andjustment figure and thin ad this to whichever is the higher dB figure for STP 6 and STP 7. Number 10.	376645.2 443995.4 1 376741 443960 110 62 8 -42 -42 -10 10 40 30 40	2 376742 443959 109 62 8 -42 -10 10 10 40 30 40	3 376747 443951 108 62 8 -42 -10 10 40 30 40	4 2 376747 3 443950 4 108 4 62 6 8 6 -42 - -10 1 100 1 300 1 40 1	S 3776741 3 4 -46 -46 - -46 - 40 34	6 7 376744 376 376744 376 310 119 119 11 62 6 8 8 -43 4 -10 -1 9 5 40 4	7750 370 919 442 23 1 2 0 3	8 9 56750 376755 33917 443900 123 126 62 62 8 8 -43 -44 -10 -10 9 8 40 40 31 322 40 40	10 8 376753 5 443900 126 62 8 -44 -10 8 40 32 40 32	11 9 376767 4 443892 130 62 8 -44 -10 8 40 32 40 40	12 376771 443889 130 62 4 -47 -10 5 40 35 40	13 376780 443905 112 62 8 -43 -10 9 40 31 40	14 376784 1 443008 1 107 1 62 1 4 1 -45 1 -10 1 7 1 40 1	15 376772 33 443919 44 105 62 62 - -42 - -10 - 10 - 30 - 40 -	16 1 16772 376 33920 4433 105 100 62 66 8 8 -42 -4 100 11 100 11 400 44 300 39 400 44	17 18 5764 3767 3934 4339 002 100 52 62 8 8 42 -42 10 -10 10 10 40 30 30 30 40 40	19 63 37681 35 44388 2 117 62 4 2 -46 0 -10 6 40 34 40	20 5 376813 3 443800 120 62 8 -43 -10 9 40 31 40	21 376801 43870 133 62 8 -44 -10 8 40 32 40	22 376800 443869 134 62 8 -44 -10 8 40 32 40	23 376784 443856 152 62 4 -48 -10 4 -48 -10 4 36 36	24 376781 443851 158 62 -46 -10 6 -40 -10 6 34 40	25 376808 443981 40 62 4 -37 0 25 40 25 40 15 40	26 376822 443962 41 62 4 -37 0 25 40 15 40	27 376828 443960 40 62 8 -34 0 28 40 12 40	28 376837 443945 51 62 4 -39 0 23 40 17 40	29 376838 443944 52 62 8 -36 0 26 26 40 14 14	30 376847 443931 65 62 8 -38 0 24 40 16 40	31 376847 443929 66 62 4 -41 0 21 40 19 40	32 376848 443929 67 62 4 4 -41 0 21 40 19 40	33 376849 443928 68 62 4 -41 0 21 40 19 40	34 376842 3 443905 4 90 4 62 1 44 1 -44 1 -10 1 8 1 40 1 32 1	35 2 76841 37 13905 44 91 9 62 4 -44 - -10 - 8 - 40 - 32 - 40 -	6 37 6840 376839 9304 443003 2 93 52 62 4 -44 10 -10 8 8 100 40 52 32
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