Ston	MCS contractor regults/ notes						
Step Instructions 1 From manufacturer's data, obtain the A-weighted	MCS contractor results/ notes						
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). Example: Manufacturer's data states the sound power	STEP 1 RESULT= 62						
level of the heat pump is 55 dB(A)							
Use 'Note 2: Sound pressure level' and 'Note 3:							
Determination of directivity' below to establish the							
directivity 'Q' of the heat pump noise. Example. The heat pump is to be installed on the	STEP 2 RESULT= 4						
ground and against a single wall hence the directivity							
(Q) of the heat pump noise is Q4							
Measure the distance from the heat pump to the							
assessment position in metres.							
Example. Distance between heat pump and assessment position is 4 metres.	STEP 3 RESULT = 6						
Use table in 'Note 4: dB distance reduction' below to							
obtain a dB reduction. Example. 4metres@ Q4 = -17 db.							
	STEP 4 RESULT= -20						
5 Establish whether there is a solid barrier between the	1						
heat pump and the assessment position using 'Note							
5: Barriers between the heat pump and the							
assessment position' and note any dB reduction. Example. There is a brick wall between the heat pump	STEP 5 RESULT= 0						
and the assessment position Moving less than 25cm							
enables the assessment position to be seen dB							
reduction = -5 dB Calculate the sound pressure level (see 'Note 2:	+						
Sound pressure level') from the heat pump at the							
assessment position using the following calculation:	STEP 6 RESULT= 42						
(STEP 1) + (STEP 4) + (STEP 5)							
Example (55) + (-17) + (-5)=55 -17- 5 =33 dB(A)							
7 Background noise level. For the purposes of the							
MCS Planning Standard for air source heat pumps 40 dB(A)							
the background noise level is assumed to be 40 dB(A) Lp. For information see 'Note 6: MCS	STEP 7 RESULT= 40						
Planning Standard for air source heat pumps	OTEL PRESSET - 40						
background noise level'.							
Example. Background noise level is 40 dB(A)	1						
Determine the difference between STEP 7 background noise level and the heat pump noise							
level using the following calculation:							
(STEP 7) - (STEP 6)	STEP 8 RESULT = -2						
Example: 40dB(A) (background) - 33dB(A) (heat							
pump) = 7dB(A).							
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.							
	FINAL RESULT = 45db						
Example: Adjustment figure is 0.8dB and the higher figure is 40dB(A).	I IIVAE NEGOLI - 4000						
40 = 0.8 = 40.8 dB(A)							
Rounded up t0 41dB(A) Final result at this assessment position is 41dB(A).							
Timarresult at time accessment position to Trab(ry).							
10 Is the FINAL RESULT in STEP 9 equal to or lower							
than the permitted development noise limit of 42.0 dB(A)?							
If YES - the air source heat pump will comply with the							
permitted development noise limit for this							
assessment position and may be permitted development (subject to the compliance with other							
permitted development limitations/conditions and							
parts of this standard).	45db Fail						
NOTE - Other assessment							
positions may also need to be tested.							
If NO - the air source heat pump will not be							
permitted development. This installation may still go							
ahead if planning permission is granted by the local							
planning authority.							
Example: 41dB(A) is equal to or lower than 42.0dB(A)							

