



ABN 63 107 523 757

## Heat Load Calculation Sheet

This page is for Air and Water to calculate what size air conditioner is required for your home or building. We use this sheet to show the rooms that are to be treated, the zones per room and the number of outlets per room. We take into account the height of the ceilings and the number of windows in each room. The square meter total of each room is multiplied by the number of watts that we believe are required to treat each room correctly. We provide you a copy of this sheet to allow you to understand why we have recommended the unit which is quoted. It is also important to ensure that the total litres of air required to treat the nominated zones are able to be achieved by the air conditioners quoted.

**CLIENT  
JOB ADDRESS**

	<b>HOME</b>	
	<b>WORK</b>	
	<b>MOBILE</b>	
Western Australia	<b>P/CODE</b>	

		Outlets per room	Room Dimensions		Ceiling HEIGHT	Heat Load watt per m²	Window's in room	Watt's REQUIRED	Room SQ MT	Air Flow L/S
ROOM	Zone		LENGTH	WIDTH						
main living	1	2	5	6.5	2.4	145	1	4713	33	276
Bed 1	2	1	3	4	2.4	145	1	1740	12	102
Bed 2	3	1	3	3	2.4	145	1	1305	9	77
Bed 3	4	1	3	3	2.4	145	1	1305	9	77
Total		5			Total watts required for whole home			9063	63	531
AIR FLOW l/s			8.5							

### Kw required to treat each zone

Constant	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10
	4713	1740	1305	1305						

### ZONE USAGE (total watts required to operate each possible zone combination)

This table calculates how many watts are required to treat each possible zone combination and is required to determine the correct sizing of the air conditioner e.g. To run all the bedrooms at one time needs 10kw but to operate all the day living area requires a 14kw unit. In that case we will recommend a 14kw unit. Should you want to treat more of the building at one time then indicated in the table a larger unit will be required. Please discuss this with the consultant.

Zone	Watts	Zone	Watts	Zone	Watts	Zone	Watts
1+2	6,453						
1+3	6,018						
1+4	6,018						
2+3	3,045						
2+4	3,045						
3+4	2,610						
2+3+4	4,350						

Highest Head Load of all zones	<b>1+2</b>	<b>Kw</b>	<b>6,453</b>
Minimum Machine recommended Kw	<b>7</b>		
Total mt <sup>2</sup> system able to treat at one time with the unit specified	<b>45</b>		
% of home able to be treated at one time with the unit specified	<b>71%</b>		

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