

Room Air Conditioner Heat Load Estimator								
Heat source	A Floor area m2	B Multiplying factor W/m2				Cooling Load A x B Watt		
Area of Windows		Exposed to sun			Fully shaded			
		No awnings No Curtains No Blinds	No awnings or curtains or blinds	Awnings curtains blinds				
		South	120	95			65	60
		South East	380	260			130	60
		East	430	300			145	60
		North East	370	260			130	60
		North	270	190			100	60
		North West	370	260			130	60
		West	430	300			145	60
South West	380	260	130	60				
Outside wall area less glass		Exposed to the sun	Brick, brick veneer, weather board, fibro		35			
		Not exposed	Brick, brick veneer, weather board, fibro		40			
Internal wall area		8						
Ceiling area		Uninsulated 50		Insulated 8				
Suspended floor area		Uncarpeted 12		Carpeted 6				
Door area		Closed when not in use		100				
People		Sitting or sleeping		120 W/person				
		Active		250 W/person				
Lights Appliances		Power / lights			20 W/m2			
Sensible Cooling Load (Watt)								
Required thermal cooling capacity = Sensible cooling load x 1.3								

Cooling Load Check Figures

Apartments	120	Food Store	160
Banks	175	Hotel Rm	120
Hairdressers	215	Library	150
Cafateria	350	Mall	135
Classroom	95	Medical Off	185
Clothing Store	165	Office Gen	170
Computer Rm	480	Office	100
Conference Rm	275	Restaurant	330
Dept Store	150	Theatre	280