

Cooling Load Check Figure

(based on the AIRAH Handbook 3rd edition)

Occupancy	Cooling Load W/m ² (air conditioned area)
Apartments / Residence Night only	100
Apartments / Residence (Insulated & not facing west)	150
Apartments / Residence (un-insulated & facing west)	200
Auditorium	280
Banks	175
Hairdresser	215
Beauty Shop (consider appliances)	260
Cafeteria	350
Classroom	95
Clinic	190
Clothing Store	165
Computer Room (allow for future expansion)	480
Conference Room	275
Department Store Basement	125
Department Store Main Floor	150
Department Store Upper Floors	125
Factory - light manufacture	275
Factory - Heavy manufacture	490
Food Stores	160
Hotel & Motel Rooms	120
Laboratory	130
Library	150
Mall	135
Medical Offices	185
Milk Bars, Fast Food (count kW of appliances)	270
Office - General (Perimeter)	170
Office - General (Interior)	100
Office - Private	180
Post Office	180
Restaurants	350
Residential - Check Figure	kW=m ² /6
Shoe Store	185
Super Market	180
Theatre	280

Only use these figures for preliminary estimates or to check a full load estimate.