



RESIDENTIAL ELECTRICAL LOAD CALCULATION SHEET

1. GENERAL LIGHTING: Table 220.12

1997 sq. ft. x 3 VA = 5991 VA

Small appliances: 220.52(A)

1500 VA x 2 circuits = 3000 VA

Laundry: 220.52(B)

1500 VA x 1 circuit = 1500 VA

Applying Demand Factors: Table 220.42

1st 3000 VA x 100% = 3,000 VA

Next 7491 VA x 35% = 2622 VA

Remaining _____ VA x 25% = _____ VA

Total _____ 5622 VA

2. FIXED APPLIANCES: 220.53 ("it shall be permissible to apply a demand factor of 75% for four+ appliances other than electric ranges, clothes dryers, space heating equip., air-conditioning equip.)

Dishwasher = 1 (1500) VA

Disposer = _____ (800) VA

Compactor = _____ (99) VA

Microwave = 1 (1300) VA

Spa = _____ (12,000) VA

Attic Fan = _____ (1600) VA

Water Heater = 3000 VA

Total: 5800 VA x 75% = 4350 VA

3. DRYER: 220.54; Table 220.54

5000 VA x 100 % = 5000 VA

4. COOKING EQUIPMENT: Table 220.55; Notes

Col A 5000 VA x 75 % = 3750 VA
Col B 5000 VA x 65 % = 3250 VA
Col C 11 kW 11000 VA
Total 18000 VA

5. HEATING or A/C: 220.60 (non-coincident loads)

Heating unit = 15000 VA x 100 % = 15000 VA
A/C unit = 29A x 240V VA x 100 % = 6960 VA
Heat Pump = _____ VA x 100 % = _____ VA
Largest Load 15000 VA

6. LARGEST MOTOR OUTLETS: 220.14(C) => 430.24 & 440.6

7740 VA x 25 % = 1144 VA

7. EVSC _____ VA x 1.25 (cont. duty) _____ VA

8. SERVICE

Total VA 49116 VA
VA/240 volts = 204.7 Amps
Minimum Conductor size copper GEC #4 AWG copper