

SINGLE FAMILY DWELLING ELECTRICAL SERVICE LOAD CALCULATION

OPTIONAL METHOD NEC 220-30

*As an alternative method, the STANDARD METHOD,
found in ARTICLE 220 of the National Electric Code, may be used*

1. GENERAL LIGHTING LOADS

Dwelling _____ sq. ft. x 3 VA = _____ VA
 Small appliance loads -220-16 (a) 1500 VA x _____ circuits = _____ VA
 Laundry load -220-16(b) 1500 VA x _____ circuits = _____ VA
General Lighting Total _____ VA

2. COOKING EQUIPMENT LOADS - Nameplate Value

Range _____ VA = _____ VA
 Cooktop _____ VA = _____ VA
 Oven(s) _____ VA = _____ VA
Cooking Equipment Total _____ VA

3. ELECTRIC DRYER 220-18 (Nameplate, 5000 VA minimum)

Dryer _____ VA = _____ VA
Dryer Total _____ VA

4. FIXED APPLIANCE LOADS 230-30(b3)

Dishwasher = _____ VA
 Disposal = _____ VA
 Compactor = _____ VA
 Water Heater = _____ VA
 Hydromassage Bathtub = _____ VA
 Microwave Oven = _____ VA
 Built-in Vacuum = _____ VA
 _____ = _____ VA
Fixed Appliance Total _____ VA

5. OPTIONAL SUBTOTAL (Add all of the above totals)

_____ VA

6. APPLYING DEMAND FACTORS - TABLE 220-30

Optional Subtotal (from line 5) { First 10,000 VA x 100% = 10,000 VA
 Remaining _____ VA x 40% = _____ VA

7. HEATING OR AC LOAD - TABLE 220-30

Larger of the Heating or AC Load = _____ VA

8. OPTIONAL LOADS TOTAL (Add totals from lines 6 and 7) =

_____ VA

9. MINIMUM SERVICE SIZE = $\frac{\text{Optional Loads Total}}{240 \text{ Volt}}$ =

_____ Ampere

(Please put total on front of card under Computed Load)