

# RESIDENTIAL SAMPLE ELECTRICAL WORKSHEET

	Total livable area		Volt Amps		
Lighting and receptacles: A unit load of not less than 3 VA per square foot of total floor area shall constitute the lighting and 120-volt, 15- and 20-ampere general use receptacle load. 1,500 VA shall be added for each 20-ampere branch circuit serving receptacles in the kitchen, dining room, pantry, breakfast area and laundry area. Code Sec TABLE E3704.2(1)	↓ 2500	x	3	=	7500
Area					
Room Addition or Detached Casita.	400	x	3	=	1200
Small Appliance Circuits Kitchen (minimum 2) Section E3703.2	3	x	1500	=	4500
Other appliance, For example. Gas Cooktop, gas fireplace, gas water heater. Gas Cloth Dryer, Guest House Appliances When 120 volt receptacle is required	2	x	1500	=	3000
Kitchen Dishwasher Branch Circuit- Sec E3902.10	1	x	1500	=	1500
Kitchen Range Hood Circuit- Sec E4101.3	1	x	2400	=	2400
Laundry Branch Circuit- Sec E3703.3	1	x	1500	=	1500
Bath Room Branch Circuit- Sec E3703.4	2	x	1500	=	3000
Garage Branch Circuit- Sec E3704.5	1	x	1500	=	1500
Electric Wall Oven Branch Circuit- Table E3704.2(2)	1	x	8000	=	8000
Electric Range Branch Circuit- Table E3704.2(2)	1	x	8000	=	8000
Electric Cloth Dryer Circuit Table E3704.2(1)	1	x	5000	=	5000
40 Gal Electric Water Heater	1	x	5000	=	5000
			TOTAL VOLT AMPS	=	52100
Table E3602.2			100% for the first 10000 Volt Amps	=	10000
Table E3602.2			40% Remainer of Total Volt amps	=	16840
			Total above House Loads	=	26840
All Heat Pump Total			100% of Plate Rating (average 2400 per ton) Example 3 tons x 2400 = 7200	=	7200
Air Handlers Total			100% of Plate Rating (average 700 per ton) Example 3 tons x 700 = 2100	=	2100
			TOTAL HVAC LOADS	=	9300
			TOTAL WATTS	36140 / 240 =	<b>151</b> AMPS