



City of Citrus Heights

Building and Safety Division

6360 Fountain Square Drive Citrus Heights, CA 95621
 Phone: (916) 727-4760 ● Fax: (916) 725-5799 ● www.citrusheights.net

Electrical Load Calculation Worksheet

2016 C.E.C. 220.82 (100 AMP Minimum)

Permit Number: _____ Date: _____
 Contractor/Owner: _____ Size of service panel: _____ AMPS
 Job Address: _____ Total Square Feet: _____
 Phone Number: _____ Email: _____

ITEM	WATTS	EXAMPLES
_____ Sq. Ft. @ 3 watts per Sq. Ft.		1)– A/C with gas heat
20 amp appliance circuits @ 1,500 watts each		- compressor 20 amps
Range (NPR – nameplate rating) Gas: Yes No		- Fan(s) 5 amps
Oven (NPR) Gas: Yes No		Total 25 amps x 240 volts = 6,000 watts
Cooking Units (NPR) Gas: Yes No		2)-A/C with 5kw electric heater
Water Heater (NPR) Gas: Yes No		- compressor 20 amps
Dishwasher (NPR)		- Fan(s) 5 amps
Disposal (NPR)		Total 25 amps x 240 volts = 6,000 watts
Washer @ 1,500 watts (min)		- 5,000 watt heater x 65%= 3,250 watts
Dryer @ 5,000 watts (min) Gas: Yes No		- Use larger of A/C or heater –i.e. – 6,000 watts
Motors (NPR)		3) – A/C with 10kw electric heater
Electrical vehicle supply equipment (NPR)		- compressor 20 amps
Other (NPR)		- fan(s) 5 amps
Other (NPR)		TOTAL: 25 amps x 240 volts = 6,000 watts
SUBTOTAL:		- 10,000 watt heater x 65%= 6,500 watts
		-Use larger of A/C or heater – i.e. – 6,500 watts
1 ST 10,000 watts of SUBTOTAL @ 100%		4) – A/C with heat pump
Remaining _____watts @ 40%		- compressor 20 amps
Largest of A/C or electric heater or heat pump*		- fan(s) 5 amps
TOTAL WATTS:		SUBTOTAL: 25 amps x 240 volts = 6,000 watts
		- 5,000 watt heat strips @ 65% = 3,250 watts
TOTAL WATTS DIVIDED BY 240 VOLTS =	AMPS	TOTAL 9,250 watts

**Use largest of 100% of air conditioner or 65% of the heater or when residence has a heat pump, add 65% of auxiliary heat strips to 100% of air conditioner / heat pump.*