

Electrical Load Calculation Worksheet

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

THIS SHALL BE ON THE JOB SITE AT ALL TIMES

SUBMIT TWO COPIES

Permit # _____ Date: _____

Contractor/Owner: _____ Size of service panel: _____ AMPS

Job Address: _____ Total SF: _____

Phone # _____ 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 5 kw 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 10 kw electric heater
Electric 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
1st 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*