



## Submission Checklist for Electric Heat Pump Water Heaters

<b>X</b>	<b>Online Electronic Submittal Required.</b> All plans and supporting documents shall be submitted electronically using the webpage below. Please follow the instructions listed in our Electronic Plan Review Policy (G-19-33) <a href="http://share.elkgrovecity.org/filedrop/BuildingFileDrop">http://share.elkgrovecity.org/filedrop/BuildingFileDrop</a>
	A partial floor plans showing the location and single-line drawing, which represents the conductors, switches and breakers.
	Specify make and model-Technical Specs for Qualifying Models i.e.. Energy Star certified.
	Indicate the size of the existing electrical service panel.
	A complete electric load calculation (CEC 220) to verify that the electric service panel can accommodate the additional load of the (EHPWH).
	Specify an electrical disconnect means through a circuit breaker or lockable switch that is within sight (CEC 424) of the appliance.

I understand a submittal missing any of the above listed items will be deemed incomplete and the plan check will not be scheduled until the Building Department receives all of the required items. This may affect applicable fees and codes since the official date of the application will be the date on which a complete application is received.

**All the items required on this checklist are present and complete.**

Print Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

I am the:  Building owner  Business owner  Contractor  Agent of the owner



### Electrical Load Calculation Worksheet

**THIS SHALL BE ON THE JOB SITE AT ALL TIMES**

**(1) COPY REQUIRED**

Job Address: \_\_\_\_\_ Permit #: \_\_\_\_\_

Contractor/Owner/Authorized Agent: \_\_\_\_\_

Phone #: \_\_\_\_\_ Email Address: \_\_\_\_\_

Number	Ite	Watts	Air Conditioning Example (not heat pump)
	Sq. Ft. @ 3 Watts per Sq. Ft - 220.12		Compressor      20 amps Fan                    5 amps Unit Total Load = 25 amps x 240V Elec. Furnace @ N.P.R. = 6000 watts x 65% = 3900 watts Use 6000 watts since it is larger ~~~~~ <b>Heat Pump Example</b> Compressor      20 amps Fan                    5 amps Unit Total Load = 25 amps x 240V = 6000 watts Aux. Heat Strip = 6000 watts x 65% = 3900 watts Total Heat Pump Load = 9900 watts  <b>Heat Pump Note:</b> When doing load calculations where heat pumps are installed, the load for most heat pumps that are equipped with auxiliary heat strips will be larger under the demand for heat. For purposes of load calculations only, on heat pump compressor and fans use 65% of auxiliary heat <b>load to show</b> total heat pump load.
	20 Amps. Appliance circuits @ 1500 watts each - 220.52(A)		
	Range (Nameplate Rating = N.P.R.)		
	Oven (N.P.R.)		
	Cooking Units (N.P.R.)		
	Water Heater (N.P.R.)		
	Dishwasher (N.P.R.)		
	Disposal (N.P.R.)		
	Washer [(1500 watts min. N.E.C. 220.52(B))]		
	Dryer [(5000 watts min. or N.P.R. if larger) N.E.C. 220.54]		
	Motors (N.P.R.)		
	Other (N.P.R.)		
	Other (N.P.R.)		
Air Conditioning Equipment		Subtotal = _____	
Air Conditioning [cooling (N.P.R. x 100%)] =		(Loss 1 <sup>st</sup> 10KW - 10,000 @ 100% =	10,000 Watts
Electrical Heating @ (N.P.R. x 65% =		Remainder @ 40% _____ @ 40%	_____ Watts
NOTE: Use the largest load - Heat or Cool =		Total Air Cond. and/or heat pump load =	_____ Watts
Heat pump (compressor & fans) x 100% =		Total Service Load = _____ Watts	
Aux. Heat strips (or elect. furnace) x 65% =		Total Service Load _____ Watts	240V = _____ Amps
Total Heat Pump Load =		Service Size _____	
NOTE: Amps x Circuit Voltage = Watts			