



City of Soledad – Building Department
248 Main Street, Soledad, CA 93960
(T) 831-223-5000 ♦ (F) 831-678-3965

Residential Submission Checklist for Electric Heat Pump Water Heaters

LIST OF REQUIREMENTS:	
	Completed Application –or online submittal via Smartgov
	A floor plans to show 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. Provide manufacturer Specifications
	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.
	Provide completed CF1R

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 ~~~~~ Heat Pump Example 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 Heat Pump Note: 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 load to show 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 st 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			