RESIDENTIAL ELECTRIC LOAD CALCULATION (SIMPLE METHOD)

Revision Date: 08/19/2025

Name:
Address:

STEP 1 Estimate General Electric Load Excluding Heating and AC

						Volt Amps
Square Footage of Structure		General Lighting Load	3	Watts per square foot	=	0
# of Small Appliance Circuits (2 min.)		# Small Appliance Circuits	1500	Watts each	=	0
# of Laundry Circuits (1 min.)		# Laundry Circuits	1500	Watts each	=	0
				Step 1 Total =		0

STEP 2 Estimate Heating/AC Electric Load

A/C Condensor & Fixed Space Heating

	# of units		*Common Values*		Volt Amps
A/C Heat up to 8 kW		x	*8300*	=	0
A/C Heat up to 15 kW		x	*14000*	=	0
A/C Heat up to 20 kW		x	*22400*	=	0
Cond/Heat Pump to 2 T		x	*2500*	=	0
Cond/Heat Pump to 4 T		x	*5500*	=	0
Cond/Heat Pump to 5 T		x	*7000*	=	0
Other Electric Heating Device		x		Volt Amps from Label =	0
			Step 2 Total =		0

STEP 3 Estimate Other Electric Load

Dedicated Equipment

	# of units		Volt			(Watts)	*Common Values*
Electric Water Heater		x		Volt Amps from Label	=	0	*4,500*
Refrigerator		x		Volt Amps from Label	=	0	*1,400*
Freezer		x		Volt Amps from Label	=	0	*600*
Dishwasher		x		Volt Amps from Label	=	0	*1,200*
Disposal		x		Volt Amps from Label	=	0	*800*
Range Hood		x		Volt Amps from Label	=	0	*600*
Microwave		x		Volt Amps from Label	=	0	*1,500*
Mini Fridge		x		Volt Amps from Label	=	0	*900*
Instant Hot Water Unit		x		Volt Amps from Label	=	0	
Jacuzzi Tub		x		Volt Amps from Label	=	0	*800*
EVSE		x		Volt Amps from Label x 1.25	=	0	
Res. Elevator		x		Volt Amps from Label	=	0	
				Step 3 Total =		0	

STEP 4 Esimate Major Equipment Load

Major Equipment

	# of units					(Watts)	*Common Values*
Cook Range		x		Volt Amps from Label	=	0	*8,000*
Cook Oven		x		Volt Amps from Label	=	0	*5,000*
Clothes Dryer		x		Volt Amps from Label	=	0	*5,000*
Pool Motor		x		Volt Amps from Label	=	0	
Pool Heater		x		Volt Amps from Label	=	0	
Pool Light		x		Volt Amps from Label	=	0	*300*
Patio Heaters		x		Volt Amps from Label	=	0	*1,500*
				Step 4 Total =		0	
Heat Pump Water Heater		x		Volt Amps from Label	=	0	

STEP 5 Determine Whether Electric Service Panel Requires Upgrade

Total General Load excl Heating/AC (Add Steps 1, 3 and 4 Totals)	0	(Box 1)
Heat Pump Water Heater Electrical Load	0	(Box 2)
General Service Load (Add Box 1 + Box 2)	0	(Box 3)
First 10,000 Volt Amps at 100%	0	(Box 4)
Remaining General Service Load at 40% = (Box 3 - 10,000) x 40%	0	(Box 5)
Heating/Cooling Load at 100% (from Step 2 Total)	0	(Box 6)
TOTAL ADJUSTED HOUSE LOAD (Add Box 4 + Box 5 + Box 6)	0	(Box 7)
Minimum Service Ampacity (Box 7 divided by 240)	0.00	(Box "A")
Enter Your Existing Electrical Service Size (amps)		(Box "B") **Service panel upgrade IS NOT required!**

NOTE: For One-Family Dwellings, the service disconnecting means shall have a rating of not less than 100 amps, 3-wire.

Completed by (Print Name) **Signature** **Date**