

## STEP 1: SQUARE FOOTAGE

**Powered Area (3,245 ft<sup>2</sup>) @ 3 Watts Per ft<sup>2</sup> 9,735**

Total Square Footage of Residence: 3,245 ft<sup>2</sup>

## STEP 2: APPLIANCES & OTHER LOADS

Appliance	Quantity	Managed	Load
Washer	1	<input type="checkbox"/>	1,200
Dryer	1	<input type="checkbox"/>	5,000
Water Heater	1	<input type="checkbox"/>	4,500
Refrigerator	1	<input type="checkbox"/>	1,200
Garage Door Opener	1	<input type="checkbox"/>	540
Dishwasher/Disposal	1	<input type="checkbox"/>	1,680
Range	1	<input type="checkbox"/>	7,680
Microwave Oven	1	<input type="checkbox"/>	1,300
Jacuzzi Tub	2	<input type="checkbox"/>	2,000
<b>Appliances &amp; Other Loads Subtotal</b>			<b>25,100</b>

Total Load From Steps 1 & 2 34,835  
 1st 10KW @ 100% Demand 10,000  
 Remainder @ 40% Demand 9,934  
 Load Excluded from Deration 0  
**Total General Load 19,934**

## STEP 3: AIR CONDITIONING & HEATING

Component	System	Managed	Load
Cooling: 3 Ton AC	# 1	<input checked="" type="checkbox"/>	3,513
Heating: 10kW Heat Strip			10,000
Cooling: 2 Ton AC	# 2	<input type="checkbox"/>	2,342
Heating: 5kW Heat Strip			5,000
<b>Air Conditioning &amp; Heating Load Subtotal</b>			<b>9,750</b>

Cooling Load Subtotal 5,855  
 Heating Load Subtotal 15,000  
 Discount Heat Load 9,750

TOTALS	
<b>Total Load Watts</b>	<b>29,684 W</b>
<b>Total Load Amps</b>	<b>123.68 A</b>
<b>Total Managed Load</b> At 100% of Load Value	<b>10,000 W</b>
<b>Total Generator Load</b> Load on generator with discounted managed load values removed from total load	<b>23,184 W</b>
<b>Minimum Size Generator</b>	<b>24 kW</b>

All load demands and calculations performed IAW NEC 2023 article 220. GenSizer is a registered trademark of Assurance Power Systems LLC.