



Auer Electric, LLC
 6205 Tinwood Drive
 Fuquay Varina, NC 27526
 (919) 753-5682
 auerelectric.net

Sizing Report

Rated Nominal Voltage 240
 Generator Fuel Choice Propane
 Sizing Method (NEC 220) Part IV
 (Part III required for selected circuit implementation, Both valid for whole house)

General Lighting & Receptacles		Load (kW)
Square Footage Being Covered (ft ²)	1300	3.9
Small Appliance Circuits (20 amps)		
Kitchen Circuits	2	3
Laundry Circuits	1	1.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Fixed-In-Place Appliances & Motors					
Furnace (Forced Air)		0.7			0.7
Refrigerator		0.8			0.8
Well Pump		1.5			1.5
Microwave		1.3			1.3

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Air Conditioning & Cooling					
2.5 Ton Unit		2.5		X	2.5

	Managed Loads	Estimated (kW)	Nameplate (amps)	240 V	Load (kW)
Heating & Heat Pumps					

	Estimated (LRA)	Actual (LRA)	Utilized (LRA)
Transient Requirement			
Largest Motor's Starting Amps (LRA)	72	0	72

	Load (kW)	NEC Required
Summary NEC Load		
General Lighting & Receptacles	8.4	
Fixed-in-Place Appliances & Motors	4.3	
Sum of all General Loads	12.6	11.1
Cooling	2.5	2.5
Heating (w/demand factors)	0.0	0.0
Larger of Heating & Cooling	2.5	2.5
Sizing based on requirements of NEC Article 220, Part IV		13.6
Elevation		0 ft
Minimum size generator for motor starting requirements		13
BTU load required		272500

16 kW Generac Model Generator Recommended